FORM 5

Application No. :
Reference No. :
(For official use)

FORM 5
ENVIRONMENTAL IMPACT ASSESSMENT ORDINANCE
(CHAPTER 499)
SECTION 13(1)

Application for Variation of an Environmental Permit

PART A PREVIOUS APPLICATIONS

☐ No previous application for variation of an environmental permit.

☑ The environmental permit was previously amended.

Application No. : VEP-627/2023

PART B DETAILS OF APPLICANT

B1. Name : (person or company)

Civil Engineering and Development Department

[Note : In accordance with section 13(1) of the Ordinance, the person holding an environmental permit or a person who assumes responsibility for the designated project may apply for variation of the environmental permit.]

B2. Business Registration No. : (if applicable) [redacted]

B3. Correspondence Address : [redacted]

B4. Name of Contact Person : [redacted]

B5. Position of Contact Person : [redacted]

B6. Telephone No. : [redacted]

B7. Fax No. : [redacted]

B8. E-mail Address : (if any) [redacted]

PART C DETAILS OF CURRENT ENVIRONMENTAL PERMIT

C1. Name of the Current Environmental Permit Holder :

Civil Engineering and Development Department

C2. Application No. of the Current Environmental Permit : VEP-627/2023 (EP-134/2002/Q)

C3. The Current Environmental Permit was Issued in : month / year

10 / 2023

Important Notes : Please submit the application together with

(a) 3 copies of this completed form; and

(b) appropriate fee as stipulated in the Environmental Impact Assessment (Fees) Regulation

to the Environmental Protection Department at the following address :

The EIA Ordinance Register Office,
27th floor, Southorn Centre,130 Hennessy Road,
Wan Chai, Hong Kong.

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- 4 DEC 2024
EIAO Register Office, E.P.D.

☐ Tick (✓) the appropriate box

PART D PROPOSED VARIATIONS TO THE CONDITIONS IN CURRENT ENVIRONMENTAL PERMIT

D1 Condition(s) in the Current Environmental Permit	D2 Proposed Variation(s)	D3 Reasons for Variation(s)	D4 Describe the environmental changes arising from the proposed variation(s) :	D5 Describe how the environment and the community might be affected by the proposed variation(s)	D6 Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or project profile previously submitted for this project may be affected :	D7 Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed variation(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process :
Part B – Scale and Scope of Designated Project The project site covers an area of approximately 90 hectares. The scope of the project comprises: … 3. stockpiling of 12 million m^3 of public fill; …	**Part B – Scale and Scope of Designated Project** The project site covers an area of approximately 80 hectares. The scope of the project comprises: … 3. stockpiling of 13 million m^3 of public fill; …	As the earmarked site for Tseung Kwan O Desalination Plant and proposed concrete batching plant within the original project boundary has been handed over to WSD and the operator respectively. It is proposed to update the project boundary. The project site area has also been reduced from approximately 90 hectares to approximately 80 hectares. In order to cater for the foreseeable increasing surplus fill generated in the near future until at least the end of 2026, CEDD proposes to increase the total stockpiling capacity from 12 million m3 to 13 million m3 with limited project site area by extending the stockpiling area from 100 m to 50 m from seafront. The increase of stockpiling capacity provides an economical source of fill materials that serves the purpose of beneficial reuse of the waste materials. Reusing of	Potential environmental impacts associated with the proposed variation, including air quality, noise, water quality, landscape and visual, landfill gas hazard, ecology and cultural heritage, have been reviewed. No adverse environmental impacts are anticipated due to proposed variation.	To verify no adverse impact on the environment and the community, the potential environmental impacts due to the proposed variation (including air quality, noise, water quality, landscape and visual, landfill gas hazard, ecology and cultural heritage) have been reviewed and are concluded to be in compliance with the environmental requirements set out in the approved EIA Report (AEIAR-060/2002) and the Technical Memorandum on EIA Process, as shown in the attached Environmental Review Report.	The environmental requirements set out in the approved EIA Report will not be violated and will comply with the Technical Memorandum on EIA Process.	Notwithstanding that no adverse environmental impacts are anticipated due to the proposed variation, additional measures including additional drainage channel, gabion wall, rock bunds and concrete blocks are proposed to further prevent potential water quality impact from the expanded stockpiling area as stated in S.5.4 and indicated in Figure 5.1b and 5.2b of the Environmental Review Report.
Part C – Condition 2.19 The public fill stockpiling area shall be at least 100 m from the seafront.	**Part C – Condition 2.19** The public fill stockpiling area shall be at least 50 m from the seafront.					
Figure 1	Revised Figure 1. Revised to show the proposed updated project site area.					
Figure 3	Revised Figure 3. Revised to show the proposed updated project site area.					

D1 Condition(s) in the Current Environmental Permit	D2 Proposed Variation(s)	D3 Reasons for Variation(s)	D4 Describe the environmental changes arising from the proposed variation(s) :	D5 Describe how the environment and the community might be affected by the proposed variation(s)	D6 Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or project profile previously submitted for this project may be affected :	D7 Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed variation(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process :
		the fill materials could also minimise the disposal of public fill to landfills. This will minimise the potential impact to the environment and community by making beneficial use of the surplus construction and demolition material from various project.				

PART E DECLARATION BY APPLICANT

E1. I hereby certify that the particulars given above are correct and true to the best of my knowledge and belief. I understand the environmental permit may be suspended, varied or cancelled if any information given above is false, misleading, wrong or incomplete.

[redacted] [redacted] [redacted]

Signature of Applicant | Full Name in Block Letters | Position

FILL MANAGEMENT DIVISION - CEDD - HONG KONG - 土木工程拓展署-填料管理處 CEDD

on behalf of Civil Engineering and Development Department 29 November 2024

Company Name and Chop (as appropriate) | Date

NOTES :

1. A person who constructs or operates a designated project in Part I of Schedule 2 of the Ordinance or decommissions a designated project listed in Part II of Schedule 2 of the Ordinance without an environmental permit or contrary to the permit conditions commits an offence under the Ordinance and is liable to a maximum fine of $5,000,000 and to a maximum imprisonment for 2 years.

2. A person for whom a designated project is constructed, operated or decommissioned and who permits the carrying out of the designated project in contravention of the Ordinance commits an offence and is liable to a maximum fine of $5,000,000 and to a maximum imprisonment for 2 years.

Environmental Review for Revised Fill Bank Design at Tseung Kwan O Fill Bank

Environmental Review Report

PREPARED FOR

Civil Engineering and Development Department

DATE
29 November 2024

REFERENCE
0733479

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Environmental Review for Revised Fill Bank Design at Tseung Kwan O Fill Bank

Environmental Review Report

0733479

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1. INTRODUCTION

1.1 BACKGROUND

The potential environmental impacts associated with the construction, operation and decommission of the Fill Bank at Tseung Kwan O Area 137 (TKOFB or the Project) has been presented in the approved Environmental Impact Assessment (EIA) Report for the *Fill Bank at Tseung Kwan O Area 137* (AEIAR-060/2002) (hereafter referred to as *the approved EIA Report*).

A variation of the EP (VEP-627/2023) and the associated Environmental Review Report (ERR) (hereinafter referred to as *2023 ERR*) for the increase of the total processing capacity of the Construction and Demolition Material Crushing Facility (C&DMCF), relocation of the C&DMCF and reduction of Construction and Demolition Sorting Facilities (C&DMSFs) and barging points south of the TKO Basin was approved by the Environmental Protection Department (EPD) on 31 October 2023. As per the Project's current Environmental Permit (EP-134/2002/Q) held by the Civil Engineering and Development Department (CEDD), TKOFB is allowed to be operated until 31 December 2026.

It is foreseeable that the surplus fill generation in the near future will increase until commencement of the major reclamation projects in Hong Kong, therefore there is a need for CEDD to temporarily increase the TKOFB stockpiling capacity. In accordance with Condition 2.19 of the current EP, the public fill stockpiling area shall be at least 100m from the seafront based on the original layout at the EIA planning stage. As the earmarked site for Tseung Kwan O Desalination Plant and proposed concrete batching plant within the original project boundary has been handed over to WSD and the operator respectively. It is proposed to update the project boundary. The project site area has also been reduced from approximately 90 hectares to approximately 80 hectares. In order to cater for the foreseeable increasing surplus fill generated in the near future until at least the end of 2026, CEDD proposes to increase the total stockpiling capacity from 12 million m^3 to 13 million m^3 with limited project site area by extending the stockpiling area from 100m to 50m from seafront. The increase of stockpiling capacity provides an economical source of fill materials that serves the purpose of beneficial reuse of the waste materials. Reusing of the fill materials could also minimise the disposal of public fill to landfills. This will minimise the potential impact to the environment and community by making beneficial use of the surplus construction and demolition material from various projects.

The proposed changes have the potential to cause environmental impacts and an environmental review is thus required to confirm its environmental acceptability. In this connection, CEDD has commissioned ERM-Hong Kong, Limited (ERM) to undertake an environmental review to assess the potential environmental impacts from the proposed changes.

The objective of this ERR is to review the likely environmental impacts assessed in the approved EIA Report taking into account the proposed changes of the Project and to demonstrate that the environmental impacts associated with the proposed changes comply with the requirements and criteria as stipulated in the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM) and there is no material change to the

environmental impact with the mitigation measures in place under the EIAO. This ERR provides recommendations as to whether any modification and/or refinement of proposed mitigation measures and monitoring and audits requirements are needed. This ERR serves to support the application for variation of an environmental permit for the Project under Section 13 of the EIAO.

2. PROPOSED OPERATION CHANGES

2.1 PROPOSED OPERATION CHANGES IN TKOFB

As the earmarked site for Tseung Kwan O Desalination Plant (TKODP) within the original TKOFB boundary has been handed over to WSD for the operation of first stage TKODP, and the proposed concrete batching plant within the original TKOFB boundary has also been handed over to the operator for operation in Q4 2024, the site boundary and the site area of TKOFB have been updated. The project site area has been reduced from approximately 90 hectares to approximately 80 hectares.

In order to cater for the foreseeable increasing surplus fill, CEDD proposes to optimise the design of TKOFB, with the following proposed changes in the TKOFB:

- Extend the stockpiling area from 100m to 50m from the seafront
- Subsequently, increase the total stockpiling capacity from 12 million m^3 to 13 million m^3 of public fill

The extension of stockpiling area will result in alternations of the stockpiling area sizes, haul road alignment, and relocations of site facilities and diesel generators. It should be noted that no additional off-site road traffic will be generated due to the proposed design changes in TKOFB. The traffic flow of on-site roads will be altered due to the different routing of haul roads but are not expected to increase the overall on-site traffic flows.

The area of proposed concrete batching plant was previously not in use or for temporary material storage. The area of the earmarked site for TKODP was previously used as a stockpiling area. The natural unmodified slopes within Clear Water Bay Country Park was regarded as a highly sensitive landscape character area (LCA) in the *approved EIA Report* of TKOFB. As the original area of TKOFB adjacent to the concerned slope has been handed-over to TKODP, and TKODP requires to modify the slope for slope mitigation works during the construction of TKODP, follow-up measures or actions associated with the landscape and visual impacts to the concerned slope implemented by TKOFB would not be necessary. In addition, the current EP of TKODP (FEP-01/503/2015/B) (i.e. Conditions 2.7 and 2.8) also covers the slope mitigation works of the concerned slope.

The updated site boundary and the locations of key facilities at TKOFB with proposed changes are shown in **Figure 2.1**. The site boundary and the locations of key facilities at TKOFB as in the 2023 ERR are shown in **Figure 2.2**.

The locations and operations of key facilities within TKOFB with remain unchanged. Comparison of the key aspects of the TKOFB operation as in the current operation (as in *2023 ERR*) and with the proposed changes are summarised in **Table 2.1**.

TABLE 2.1 KEY ASPECTS OF TKOFB OPERATIONS WITH PROPOSED OPERATION CHANGES

Key Item	Current Operation	Proposed Operation Changes
Project site area	▪ Approximately 90 hectares	▪ Approximately 80 hectares
Maximum stockpiling height at TKOFB	▪ +65.2 mPD	▪ No change

Key Item	Current Operation	Proposed Operation Changes
Total stockpiling capacity	▪ 12 million m³ of public fill	▪ 13 million m³ of public fill
Receiving public fill by land-based transportation route	▪ From 08:00 to 21:00	▪ No change
Nos. of incoming truck trips (public fill delivered by road)	▪ 1,500 truck loads/day	▪ No change
Barging Points at TKO Basin (exporting)	▪ 24-hour operation (B1 to B3) ▪ 24,510 tonnes (07:00-23:00) ▪ 12,020 tonnes (23:00-07:00)	▪ No change
Barging points at TKO Basin (importing)	▪ 24-hour operation (IB1 to IB4) ▪ 2,500 tonnes (24-hour)	▪ No change
Operation of TKO Sorting Facility (TKOSF)	▪ 24-hour operation	▪ No change
Other C&DMSFs south of the TKO Basin	▪ NSD (24-hour operation) ▪ NSE (24-hour operation)	▪ No change
Other barging points south of the TKO Basin for exporting public fill	▪ NB4 (24-hour operation) ▪ NB5 (24-hour operation)	▪ No change
Operation of C&DMCF	▪ 10,000 tonnes/day (07:00-23:00) ▪ 4 jaw crushers, 1 cone crusher, 1 impact crusher, and 1 screening machine	▪ No change

2.2 REASON AND BENEFIT OF THE PROPOSED OPERATION CHANGES

Based on the current fill generation projection and the remaining capacity of the two fill banks in Hong Kong, it is anticipated that there will be surplus fill generated in the near future until at least the end of 2026, in particular before the major reclamation projects in Hong Kong that demand public fill are commenced.

As such, there is a need to temporarily stock the surplus fill locally as a contingency measure, otherwise the surplus fill may potentially be dumped to existing landfills, and thus increasing the burden to the existing landfill capacity. The surplus fill is also a valuable resource for reclamation and earth filling in other projects, as it is an economical source of fill materials that serves the purpose of beneficial reuse of the waste materials. Reserving the surplus fill for beneficial reuse would therefore help to conserve natural resources and avoid the environmental impact from earth borrowing activities and marine sand extraction for reclamation and earth filling.

2.3 PROJECTS IN THE VICINITY OF THE TKOFB

The following projects in the vicinity of TKOFB have been considered in this environmental review.

2.3.1 SOUTHEAST NEW TERRITORIES (SENT) LANDFILL EXTENSION

The SENT Landfill Extension (SENTX) is located to the northeast and east of the TKOFB. SENTX has commenced its operation in Year 2021 and has been accepting construction waste from 08:00 to 22:00. The site office of the SENTX closes at 23:00.

2.3.2 TSEUNG KWAN O DESALINATION PLANT

Water Supplies Department (WSD) is constructing the first stage of TKODP located south of SENTX. The first stage of TKODP has commenced its operation phase on 1 July 2024.

2.3.3 DEVELOPMENT OF TSEUNG KWAN O AREA 137 AND ASSOCIATED RECLAMATION SITES (TKO137 DEVELOPMENT)

CEDD is planning to develop TKO Area 137, in which TKOFB is located, into a new community primarily for housing purpose. Although the Project Profile (PP-654/2023) states that the development works were hoped to be commenced in 2025, with a view to enabling first population intake in TKO Area 137 in 2030, any detailed development programme has yet to be announced and the EIA has also yet to be approved. The estimated first population intake in TKO Area 137 also falls beyond the allowable operation period of TKOFB, as per the TKOFB's EP (i.e. until 31 December 2026).

2.4 POTENTIAL ENVIRONMENTAL IMPACTS

Potential environmental impacts associated with the proposed changes at TKOFB are listed in **Table 2.2**. Detailed discussions of the potential environmental impacts are shown in the subsequent sections.

TABLE 2.2 POTENTIAL ENVIRONMENTAL ISSUES

Environmental Issues	**Potential Issues**
Air Quality	✓
Noise	✓
Water Quality	✓
Landscape and Visual	✗
Landfill Gas Hazard	✗
Cultural Heritage	✗
Ecology	✗
Note: ✓= possible; ✗= not expected	

3. AIR QUALITY IMPACT

3.1 INTRODUCTION

This *Section* reviews and presents the assessment of the potential air quality impact associated with the proposed changes.

3.2 LEGISLATIVE REQUIREMENT AND EVALUATION CRITERIA

The principal legislation for the management of air quality in Hong Kong is the *Air Pollution Control Ordinance* (APCO) (CAP.311). Under the APCO, the Air Quality Objectives (AQOs) (see **Table 3.1**) stipulate the statutory limits for air pollutants and the maximum allowable number of exceedances over specific time periods.

TABLE 3.1 HONG KONG AIR QUALITY OBJECTIVES

Air Pollutant	Averaging Time	Concentration (μg/m³) [(a)]	No. of Exceedances Allowed per Year
Respirable Suspended Particulates (RSP) [(b)]	24-hour	100	9
	Annual	50	-
Fine Suspended Particulates (FSP) [(c)]	24-hour	50	18 [(d)]
	Annual	25	-
Nitrogen Dioxide (NO_2)	1-hour	200	18
	Annual	40	-
Sulphur Dioxide (SO_2)	10-minute	500	3
	24-hour	50	3
Carbon Monoxide (CO)	1-hour	30,000	0
	8-hour	10,000	0
Ozone (O_3)	8-hour	160	9
Lead (Pb)	Annual	0.5	-

Notes:
(a) Measured at 293K and 101.325kPa.
(b) Suspended particles in the air with a nominal aerodynamic diameter of 10μm or less.
(c) Suspended particles in the air with a nominal aerodynamic diameter of 2.5μm or less.
(d) On a best endeavours basis, a reduced number of allowable exceedances of 18 days per year for 24-hour FSP (in lieu of 35 days per year as set out in the *Air Pollution Control (Amendment) Bill 2021*) should be adopted for air quality impact assessments for new government projects.

The *Air Pollution Control (Construction Dust) Regulation* (CAP.311R) recommends dust control measures for dust-generating activities and these should be followed. Requirements stipulated in the *Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation* (CAP.311Z) and *Emissions Control of NRMM in Capital Works Contracts of Public Works* (DEVB TC(W) No.1/2015) will also be followed to control potential emissions from non-road mobile

machinery (NRMM) within TKOFB. Also, the *Air Pollution Control (Fuel Restriction) Regulations* (CAP.311I) which requires the use of liquid fuel with a sulphur content not exceeding 0.005% by weight will also be followed to control potential emissions from NRMM within TKOFB. Furthermore, *Air Pollution Control (Marine Light Diesel) Regulation* (CAP.311Y) and *Air Pollution Control (Fuel for Vessels) Regulation* (CAP.311AB) will be followed to control potential emissions from marine vessels arising from TKOFB operation.

A set of engineering practices listed in *Recommended Pollution Control Clauses for Construction Contracts* will be followed to minimise the inconvenience and environmental nuisance to nearby sensitive receivers, and to ensure the Contractor of TKOFB to comply with the *Air Pollution Control Ordinance* and its subsidiary regulations.

The technical circular *Timely Application of Temporary Electricity and Water Supply for Public Works Contracts and Wider Use of Electric Vehicles in Public Works Contracts (*DEVB TC(W) No.13/2020), aims at widening the use of electric vehicles (EVs) in public works contracts to improve roadside air quality and reduce emissions, as well as promoting timely provision of electricity and water supply at the beginning of construction works with a view to reducing carbon emissions, and will be followed as far as practicable.

3.3 BASELINE CONDITIONS

The Study Area is within 500m from the TKOFB site boundary as shown in **Figure 3.1**. SENT and SENTX Landfills, and TVB City are located to the northeast and north of the Project site, respectively. Wan Po Road is the major road linking the Project site and Tseung Kwan O town. The local air quality of the Project site area is primarily influenced by vehicular emissions from local road networks and within TKOFB, as well as emissions associated with the operation of the TKOFB, including dust emissions from fill handling activities, truck movements and stockpiling area, and marine emissions.

3.3.1 EPD'S AIR QUALITY MONITORING STATION

The nearest EPD's Air Quality Monitoring Station (AQMS) is located at Tseung Kwan O Sports Centre. The concentrations of RSP, FSP, NO_2 and SO_2 recorded at this AQMS in the past 5 years (Year 2019 to Year 2023) are presented in **Table 3.2**.

TABLE 3.2 CONCENTRATIONS OF AIR POLLUTANTS MEASURED AT THE EPD'S TSEUNG KWAN O AQMS IN THE PAST 5 YEARS (YEAR 2019 – YEAR 2023)

Year	Concentration of Pollutants (µg/m³)										
	10th highest 24-hour RSP	Annual RSP	19th highest 24-hour FSP	Annual FSP	19th highest 1-hour NO_2	Annual NO_2	4th highest 10-min SO_2	4th highest 24-hour SO_2	10th highest 8-hour O_3	1st Highest 1-hour CO	1st Highest 8-hour CO
2019	60	29	34	17	155	29	25	12	185	2,170	1,935
2020	52	24	26	12	136	23	18	7	158	1,670	1,411
2021	50	24	26	13	132	26	18	9	158	1,750	1,375
2022	46	22	28	13	110	21	12	7	167	1,210	1,105

Year	Concentration of Pollutants (µg/m³)										
	10th highest 24-hour RSP	Annual RSP	19th highest 24-hour FSP	Annual FSP	19th highest 1-hour NO_2	Annual NO_2	4th highest 10-min SO_2	4th highest 24-hour SO_2	10th highest 8-hour O_3	1st Highest 1-hour CO	1st Highest 8-hour CO
2023	50	24	27	15	116	22	32	6	160	1,300	996
Prevailing AQOs	**100**	**50**	**50**	**25**	**200**	**40**	**500**	**50**	**160**	**30,000**	**10,000**

Notes:
(a) Data was extracted from the Smart Air Modelling Platform 2.0 (SAMP2.0) published by EPD.
(b) Underlined data means exceedance on AQOs.

The RSP, FSP, NO_2, SO_2 and CO concentrations from Year 2019 to Year 2023 are below their respective prevailing AQOs. Exceedances of the 10th highest 8-hour O_3 criterion were recorded in 2019 and 2022.

It should be noted that the Tseung Kwan O AQMS is situated next to the residential area and is more than 5km away from the Project site. Given the differences in land use and the considerable separation distance, the monitoring data recorded at Tseung Kwan O AQMS may not be representative of the current baseline air quality at the Project site.

3.3.2 PREDICTED FUTURE BACKGROUND AIR QUALITY

The predicted background air pollutant concentrations in Year 2025, as determined by the PATH-v3.0 (Pollutants in the Atmosphere and their Transport over Hong Kong) model, are provided in **Table 3.3** for PATH grids within the Study Area where the identified ASRs are located.

TABLE 3.3 BACKGROUND AIR POLLUTANT CONCENTRATIONS PREDICTED BY THE PATH-V3.0 MODEL IN YEAR 2025

Pollutant	Parameter	AQO (µg/m³)	Predicted Concentrations of Pollutants (µg/m³)		
			Year 2025		
			50,27	50,28	50,29
RSP	10th Highest 24-hour	**100**	60	61	58
	Annual	**50**	22	23	22
FSP	19th Highest 24-hour	**50**	36	37	35
	Annual	**25**	14	14	13
NO_2	19th Highest 1-hour	**200**	60	60	63

Pollutant	Parameter	AQO (μg/m³)	Predicted Concentrations of Pollutants (μg/m³)		
			Year 2025		
			50,27	50,28	50,29
	Annual	**40**	12	11	11
SO_2	4th Highest 10-Minute	**500**	26	27	27
	4th Highest 24-hour	**50**	7	8	8
O_3	10th Highest 8-hour	**160**	181	179	179
CO	1st Highest 1-hour	**30,000**	582	582	584
	1st Highest 8-hour	**10,000**	553	553	556

Notes:
(a) Data was extracted from the Smart Air Modelling Platform 2.0 (SAMP2.0) published by EPD.
(b) Underlined data means exceedance on AQOs.
(c) The multiplicative factor for the stability class calculated for each hour was applied to the hourly SO_2 concentrations to estimate the 10-minute SO_2 concentrations. The set of stability class was taken from PATH-v3.0 (i.e. 2019 met. data).

As shown above, the predicted background concentrations of RSP, FSP, NO_2, SO_2 and CO in all PATH grids within the Study Area of TKOFB in Year 2025 are below the relevant AQO criteria. The predicted background concentrations of O_3 in Year 2025 show exceedances of the relevant AQO criterion in all relevant PATH grids.

3.4 AIR SENSITIVE RECEIVERS

The identified representative ASRs are listed in **Table 3.4**. The locations of the ASRs are shown in **Figure 3.1**, and the details of the ASRs are provided in **Appendix A**.

TABLE 3.4 IDENTIFIED REPRESENTATIVE ASRS

ASR	ASR Description	Type of Use	Approx. Base Elevation (mPD)	Approx. Max. Height (mAG)	Approx. Separation Dist. from the Project site boundary (m)
A1	TVB City	Commercial	5.3	30	60
A2	TVB City	Commercial	5.3	30	90
A3	HAESL	Industrial	5.3	30	310
A4	TVB City	Commercial	6.1	30	360
A5	HAESL Component Overhaul Building	Industrial	5.8	30	420

ASR	ASR Description	Type of Use	Approx. Base Elevation (mPD)	Approx. Max. Height (mAG)	Approx. Separation Dist. from the Project site boundary (m)
A6	Digital Savvis Investment	Commercial	9.5	30	485
A7	Trade Development Council	Commercial	7.7	20	510
A8	Office Building of SENT Landfill Extension	Industrial	5.0	4.5	90
A9	Office Building of Desalination Plant	Industrial	5.0	35	30
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	Industrial	5.9	1.5	50

3.5 OVERVIEW OF THE POTENTIAL SOURCES OF AIR EMISSIONS

Cumulative AQIA has been undertaken with reference to *Guidelines on Assessing the 'Total' Air Quality Impacts* published by EPD, taking into account Tier 1, Tier 2 and Tier 3 emission source contributions:

- Tier 1 contributions – air emissions associated with TKOFB operation;
- Tier 2 contributions – other air emission sources within the 500m Study Area that may have the potential to contribute to the cumulative air quality impact, including industrial emissions, marine emissions and vehicular emissions; and
- Tier 3 contributions – represents background contributions which include other potential emission sources not captured by Tier 1 and Tier 2 contributions. The predicted hourly background concentrations (i.e. RSP, FSP, NO_2 and SO_2) in Year 2025 in the relevant PATH grids obtained from the PATH-v3.0 model were adopted as the background contributions.

The cumulative concentrations at the ASRs were estimated by adding together the hour-by-hour contributions from modelled results for Tier 1, Tier 2 and the predicted PATH hourly background concentrations in Year 2025. Relevant time-period averages of the 8,760 hourly results for the air pollutants (i.e. RSP, FSP, NO_2 and SO_2) assessed were calculated and compared with the respective AQO criteria to evaluate the cumulative air quality impact at the ASRs and the compliance with the criteria.

3.5.1 AIR EMISSION SOURCES ASSOCIATED WITH TKOFB OPERATION (TIER 1)

The potential air emission sources associated with the TKOFB operation have been identified below:

- Dust emissions from the TKOFB operation activities including fill material handling at stockpiling areas, C&DMCF, C&DMSFs, TKOSF and barging points, crushing and screening from C&DMCF, C&DMSFs and TKOSF, truck movements on haul roads, and wind erosion from stockpiling areas;
- Emissions from marine vessels (e.g. barges, derrick lighters, tugboats) during berthing and manoeuvring for exporting and importing fill materials;
- Emissions from the operation of C&DMCF and diesel generators within TKOFB; and

- Vehicular emissions from internal roads within TKOFB (incoming trucks and internal trucks).

Dust Emissions from the TKOFB Operation Activities

The RSP and FSP emission rates were estimated based on published documents and references such as *Compilation of Air Pollutant Emission Factors, AP-42, 5th Edition* by the United States Environmental Protection Agency (USEPA). Dust mitigation measures as discussed in **Section 3.7** have been considered in the assessment. The locations of the dust emission sources within TKOFB are illustrated in **Figure 3.2**. The detailed calculations of RSP and FSP emission rates, assumptions and emission inventory of these dust emission sources are shown in **Appendix B**.

Emissions from Marine Vessels

Berthing and manoeuvring emissions from marine vessels (i.e. barges, derrick lighters, tugboats) for exporting and importing fill materials may give rise to RSP, FSP, NO_2 and SO_2 impacts. The locations of the barging points are shown in **Figure 3.2**. Locations of the marine vessel manoeuvring routes are shown in **Figure 3.3**. The detailed calculations of RSP, FSP, NO_2 and SO_2 emission rates, assumptions and emission inventory of marine emission sources is provided in **Appendix C**.

Emissions from the Operation of C&DMCF and Diesel Generators within TKOFB

Emissions from the C&DMCF and diesel generators associated with the site operation in TKOFB may give rise to RSP, FSP, NO_2 and SO_2 impacts. The locations of the diesel generators are shown in **Figure 3.4**. The detailed calculations of RSP, FSP, NO_2 and SO_2 emission rates, assumptions and emission inventory of emissions from these generators is provided in **Appendix D**.

Vehicular Emissions from TKOFB Internal Roads

RSP, FSP and NO_2 emissions arising from TKOFB internal road traffic (incoming trucks and internal trucks) will contribute to the air quality impacts and thus have been considered in the assessment. The traffic flow of internal roads will be altered due to the different routing of haul roads and thus the predicted traffic flows for internal truck movement have been updated. The internal road alignment is illustrated in **Figure 3.5**. Traffic flow and information for internal roads adopted in the assessment are detailed in **Appendix E**.

3.5.2 AIR EMISSION SOURCES NOT RELATED TO TKOFB OPERATION (TIER 2)

Other emission sources (not TKOFB operation related) within the 500m Study Area that may have the potential to contribute to the air quality impact are defined as Tier 2 emission sources according to EPD's *Guidelines on Assessing the 'Total' Air Quality Impacts*. Other potential air emission sources within the 500m Study Area include:

- Vehicular emissions from external roads within 500m Study Area (including internal roads of proposed concrete batching plant);
- Marine emissions from the proposed concrete batching plant; and
- Other industrial emissions, such as emissions associated with the operation of SENTX and the existing HAESL stack, as well as the proposed concrete batching plant.

Vehicular Emissions from External Roads within 500m Study Area

RSP, FSP and NO_2 emissions arising from external road traffic within the 500m Study Area (including the internal roads of the proposed concrete batching plant) will contribute to the overall air quality impacts and thus have been considered in the assessment. The proposed design change of TKOFB will not have impact on external traffic flows and thus the projected traffic flows for the identified external roads remain unchanged (i.e. same as those used in the *2023 ERR* for which the traffic forecast in Year 2026 has been endorsed by the Transport Department (TD)). The TD's endorsement letter is attached in **Appendix E**. The traffic flow of the internal roads of the proposed concrete batching plant are based on its approved APCP. External roads identified within the 500m Study Area (including the internal roads of the proposed concrete batching plant) are illustrated in **Figure 3.6**. Traffic flow and information for external roads (including the internal roads of the proposed concrete batching plant) adopted in the assessment is listed out in **Appendix E**.

Marine Emissions from the Proposed Concrete Batching Plant

Berthing and manoeuvring emissions associated with the operation of proposed concrete batching plant may result in RSP, FSP, NO_2 and SO_2 impacts. The locations of the barging points of proposed concrete batching plant are illustrated in **Figure 3.2**, while the marine vessel manoeuvring routes are presented in **Figure 3.3**. The detailed calculations of RSP, FSP, NO_2 and SO_2 emission rates, assumptions and emission inventory of marine emission sources associated with the operation of proposed concrete batching plant is provided in **Appendix C**.

Other Industrial Emissions

During the operation of SENTX, potential dust emissions from active filling and haul roads as well as stack emissions may arise. Potential dust emissions may also arise from the operation of the proposed concrete batching plant. In addition, emissions from the existing HAESL stack may contribute to the overall air quality impacts within the 500m Study Area. Therefore, these emissions have also been included in the assessment. The locations for the abovementioned emission sources are presented in **Figure 3.6**. The detailed RSP, FSP, NO_2 and SO_2 emission inventory for the abovementioned emission sources is provided in **Appendix F**.

The construction of the first stage of TKODP is close to completion and the remaining construction works include Electrical and Mechanical (E&M) installation, building services works and internal renovation works that are expected to generate minimal dust emissions, if any. Adverse air quality impact due to the construction of TKODP is thus not expected. As advised by WSD, there are no air emissions associated with the operation of the first stage of TKODP.

Although the PP of TKO137 Development states that the development was hoped to commence in 2025, detailed development programme of TKO137 Development has yet to be announced and thus limited information is available. Considering the status of the TKO137 Development and minor construction activities (e.g. site clearance and site preparation works) are typically expected at the beginning of construction, major TKO137 development construction activities are not expected within the remaining operation period of TKOFB (i.e. until 31 December 2026). Also, the estimated first population intake in TKO137 Development is 2030, which falls beyond the allowable operation period of TKOFB (i.e. until 31 December 2026). It is expected that there will be no overlapping period between the operation period of TKOFB and the

operation period of TKO137 Development. Additionally, handover of a portion of the existing TKOFB for TKO137 Development is required such that a reduced scale of TKOFB operation will be expected, should the construction of TKO137 Development be concurrent with the TKOFB operation. In view of the above, from an air quality perspective, the full operation of TKOFB with the proposed changes is considered to be a worse case than the TKOFB operation with the concurrent construction of TKO137 Development, within the remaining operation period of TKOFB. As such, the air emissions associated with the TKO137 Development have not been considered in the modelling assessment.

3.5.3 BACKGROUND CONTRIBUTION (TIER 3)

Background contributions which include other potential emission sources not captured by Tier 1 and Tier 2 contributions are identified as Tier 3 emissions under EPD's *Guidelines on Assessing the 'Total' Air Quality Impacts*. The hourly background RSP, FSP, NO_2 and SO_2 in Year 2025 were used to establish the background contributions for the assessment. The predicted PATH-v3.0 background concentrations specific to the PATH grids within which the ASRs are located were adopted.

3.6 MODELLING METHODOLOGY AND ASSUMPTIONS

3.6.1 AIR DISPERSION MODEL

An EPD recommended air dispersion model, AERMOD, was used to assess the potential air quality impact at the identified representative ASRs due to the operation of TKOFB with the proposed changes. The quantitative assessment was conducted following the *Guidelines for Local-scale Air Quality Assessment Using Model* published by EPD in January 2024.

3.6.2 MODELS FOR CALCULATING VEHICULAR EMISSIONS

The EPD-recommended model, EMFAC-HK v4.3, was used to predict the running vehicular emission factors of RSP, FSP, NO and NO_2 for the 18 vehicle types in Year 2025. 'EMFAC' mode was used for the model run. The latest *Use of Temperature and Relative Humidity Data for Vehicular Emission Factor Prediction (January 2024)* published by EPD was followed for the treatment of ambient temperature and relative humidity in generating vehicular emission factors for the cumulative AQIA. For assessment of short-term impact from vehicular emissions (i.e. 24-hour averaging or less), the daily profile of minimum temperature and relative humidity in each hour for each month in the PATH-v3.0 meteorological data in each PATH grid were adopted in the EMFAC-HK to generate relevant vehicular emission factors for short-term assessment of RSP, FSP, NO and NO_2. For assessment of long-term impact from vehicular emissions (i.e. annual averaging), the daily profile of average temperature and relative humidity in each hour for each month in the PATH-v3.0 meteorological data in each PATH grid was adopted in the EMFAC-HK to generate relevant vehicular emission factors for long-term assessment of RSP, FSP, NO and NO_2.

For internal roads of TKOFB, all internal trucks of TKOFB are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is Year 2011 or later. In the EMFAC model, the vehicle population of HGV9b is conservatively assumed to have a model year of 2011, with a Euro IV standard.

Apart from running vehicular emissions, start emissions may also occur along Local Distributors (LDs) and Rural Roads (RRs) which may have no stopping or parking restrictions according to the Annual Traffic Census (ATC) published by TD. Start emissions from 18 vehicle types along these identified LDs and RRs (i.e. external roads TKO15 to TKO21) within the 500m Study Area and internal roads of proposed concrete batching plant have been considered using a 'broad-brush' approach based on the default trip-to-vehicle kilometres travelled (VKT) ratio for each vehicle type obtained from the EMFAC-HK model (latest version, v4.3) in Year 2026, where the VKT adopted was reduced to 14.34% of the default VKT with reference to the latest *Annual Traffic Census* (2022) by TD to reflect the VKT from LDs and RRs (i.e. minor roads) only. For start emission from internal trucks along internal roads, the internal trucks operate non-stop during the operation hours (i.e. 07:00-23:00) and park overnight (i.e. 23:00-07:00) within TKOFB. Start emission has been considered in the first hour of operation hours (i.e. 07:00-08:00) in the assessment [(1)]. For start emission from external trucks at internal roads, these external trucks deliver fill materials to TKOFB, leave immediately after the delivery and are not allowed to park in TKOFB. Therefore, start emission from external trucks along internal roads within TKOFB was excluded from the assessment. The detailed composite emission rates for RSP, FSP, NO and NO_2 in Year 2025 are provided in **Appendix G1**. The temperature and relative humidity adopted for the assessment are provided in **Appendix G2**. The start emission profile for external roads (including internal roads of proposed concrete batching plant) and internal roads within TKOFB is provided in **Appendix G4**.

The EMFAC emission factors for vehicular emissions from external roads were generated using the EPD's SAMP2.0 platform, based on the combination of 2026 as the traffic year and 2025 as the EMFAC calendar year.

The input parameters for modelling the vehicular emissions of the identified roads have been prepared according to the *Technical Note for Modelling Vehicular Emissions Using AERMOD (January 2024)* published by EPD. Details of the road configurations and emission inventory of the vehicular emission are provided in **Appendix G3**.

3.6.3 MODELLING SCENARIO

Year 2025 has been chosen as the assessment year. As a worst-case approach for simulating the vehicular emissions for both internal and external roads of TKOFB, the traffic data of Year 2026 with the highest traffic flow has been adopted in combination with the emission factors from the EMFAC calendar Year 2025.

3.6.4 METEOROLOGICAL DATA

EPD's SAMP2.0 was used to obtain the AERMOD-ready meteorological data for the relevant PATH grids. The AERMOD-ready meteorological data were generated from AERMET, which is the meteorological preprocessor of AERMOD, based on the meteorological data from the relevant PATH grids and land user parameters, including albedo, Bowen ratio and surface roughness. The relevant PATH grids in which the identified representative ASRs are located were identified and shown in **Appendix A**. Calculations of albedo, Bowen ratio and surface

(1) Start emission of internal trucks is conservatively considered along the haul road that will be used during 0700-0800. It is calculated based on the total number of internal trucks within TKOFB (i.e. 50 trucks, as provided by CEDD) and the vehicle-kilometre-travelled (VKT) along that particular haul road.

roughness, and the land use maps illustrating the determination of the land use parameters, as extracted from EPD's SAMP2.0, are presented in **Appendix H**.

3.6.5 SUMMARY OF AERMOD MODEL INPUT PARAMETERS

The AERMOD model input parameters and assumptions for the assessment are summarised in **Table 3.5** below.

TABLE 3.5 MODEL INPUT PARAMETERS AND ASSUMPTIONS FOR ASSESSMENT

Input Parameters & Assumptions	Descriptions
Air dispersion model	AERMOD
Type of source	Tier 1 and Tier 2 Emissions (Except vehicular emissions) ▪ Point sources (POINT) ▪ Area sources (AREA, POLYAREA) Tier 1 and Tier 2 Vehicular Emissions ▪ Line sources (LINE)
Assessment parameter	▪ 24-hour average RSP and annual average RSP ▪ 24-hour average FSP and annual average FSP ▪ 1-hour average NO_2 and annual average NO_2 ▪ 10-minute average SO_2 and 24-hour average SO_2
Assessment Heights	1.5m, 5m, 10m, 15m, 20m, 25m, 30m above ground level
Meteorological data	▪ The processed AERMOD-ready meteorological data was downloaded from EPD's SAMP2.0. ▪ Weather Research and Forecasting Model (WRF) data in Year 2019 from the PATH-v3.0 model. ▪ Relevant PATH Grids: (50,27), (50,28) and (50,29). ▪ Actual mixing heights recorded by the Hong Kong Observatory (HKO) in Year 2019 were in the range of 119m to 2,009m. Mixing heights from WRF data which are lower than 119m or higher than 2,009m were adjusted to 119m and 2,009m, respectively. ▪ Wind direction of 0° was adjusted to 360°. ▪ Wind speed smaller than 0.5m/s was adjusted to 0.5m/s. ▪ Anemometer height of WRF data = 8.5m.

3.6.6 BACKGROUND AIR QUALITY

The hourly background RSP, FSP, NO_2 and SO_2 concentrations in Year 2025 predicted by the PATH-v3.0 model have been used to establish the background contributions for the cumulative AQIA. The predicted PATH background concentrations specific to the PATH grids within which the ASRs are located have been adopted. The predicted PATH background concentrations adopted are conservative estimates with double counting of vehicular emissions.

3.6.7 POST-PROCESSING OF MODELLING RESULTS

NO_2 assessment

The Ozone Limiting Method (OLM) was adopted for the conversion of NO_x to NO_2. The initial NO_2/NOx ratio for stack emissions was assumed to be 0.1 [2], with NO and NO_2 comprising 90% and 10% of NO_x, respectively.

For vehicular emissions, NO and NO_2 emission factors for each vehicle type are provided in EMFAC-HK and thus the hourly concentrations of NO and NO_2 have been separately predicted at the relevant assessment heights of the identified ASRs.

The predicted O_3 concentrations in Year 2025 in the relevant PATH grids obtained from the PATH-v3.0 model were used for the conversion of NO_x to NO_2 in OLM. The predicted NO concentrations from all modelled sources were converted to NO_2 based on OLM and were added with the predicted NO_2 concentrations from all modelled sources to determine the total predicted NO_2 concentrations at the ASRs. The total predicted NO_2 concentrations for 1-hour NO_2 assessment were calculated as follows:

$$[NO_2]_{pred\ total} = [NO_2]_{pred} + MIN\ \{[NO]_{pred}, or\ (46/48)x[O_3]_{bkgd}\}$$

Where
[NO_2] pred total = the total predicted NO_2 concentration
[NO_2] pred = sum of the predicted NO_2 concentration due to direct emissions from all sources
[NO] pred = sum of the predicted NO concentration from all sources
MIN = the minimum of the two values within the brackets
[O3]bkgd = the representative O_3 background concentration; (46/48) is the molecular weight of NO_2 divided by the molecular weight of O_3

10-minute SO_2 assessment

The 1-hour average SO_2 concentrations at the identified ASRs were converted into 10-minute SO_2 concentrations for comparison with the respective AQO criterion. According to *Guidelines on the Estimation of 10-minute Average SO_2 Concentration for Air Quality Assessment in Hong Kong* published by EPD, it is recommended that the stability-dependent multiplicative factors from *Duffee et al., 1991* [3] should be used. The conversion factors adopted in this assessment for different stability classes are shown in **Table 3.6**.

TABLE 3.6 CONVERSION FACTORS FROM 1-HOUR TO 10-MINUTE MEAN SO_2 CONCENTRATIONS

Pasquill Stability Class	Conversion Factor (1-hour to 10-minute)
A	2.45
B	2.45
C	1.82
D	1.43

(2) Air Quality Studies for Heathrow: Base Case, Segregated Mode, Mixed Mode and Third Runway Scenarios modelled using ADMS-Airport, 2007.
(3) Richard A. Duffee, Martha A. O'Brien and Ned Ostojic (1991) Odor Modeling - Why and How. Page 295, *Recent Developments and Current Practices in Odor Regulations, Controls and Technology*. Air & Waste Management Association, 1991.

Pasquill Stability Class	Conversion Factor (1-hour to 10-minute)
E	1.35
F	1.35

Note:
(a) Reference to *Guidelines on the Estimation of 10-minute Average SO_2 Concentration for Air Quality Assessment in Hong Kong* published by EPD.

Cumulative RSP, FSP, NO_2 and SO_2 Concentrations at ASRs

The predicted RSP, FSP, NO_2 and SO_2 results from AERMOD (Tier 1, Tier 2) at the relevant assessment heights of each ASR were added up with the PATH background concentrations (Tier 3) on an hour-by-hour basis. Relevant time-period averages of the 8,760 hourly results for RSP, FSP, NO_2 and SO_2 at the ASRs were calculated for comparison with the respective assessment criteria to evaluate the compliance.

3.7 MITIGATION MEASURES

Relevant dust control measures stipulated in the *Air Pollution Control (Construction Dust) Regulation* and requirements stipulated in the *Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation* will continue to be followed during the operation of TKOFB. The existing relevant air quality mitigation measures will continue to be undertaken during the operation of TKOFB with the proposed design changes:

- Temporary slope surfaces of the stockpiling areas shall be covered with tarpaulin sheets or other impermeable sheets, or sprayed with water or a dust suppression chemical;
- Major haul roads and material stockpiling areas will be watered at least once every hour during operation to ensure that the roads and stockpiling areas are kept sufficiently dampened;
- Site hoarding of at least 2.4m high shall be provided along the northern boundary of the site except at the site entrance/ exit;
- Vehicle wheel washing facilities including high pressure water jets shall be provided at designated vehicle exit points and operated by designated staff. Before leaving the site, every vehicle shall be washed to remove any dusty materials from its body and wheels;
- Trucks carrying dusty load entered to the site shall be sprayed with water once the impervious sheeting covering the load is removed;
- All public fill delivery trucks carrying dusty load leaving the fill bank shall be required to be covered entirely by clean impervious sheeting to prevent the dusty materials leaking from the vehicles;
- All haul roads within the site shall be paved with concrete, bituminous materials, hardcores or metal plates;
- At the barging point, the drop height between the barge and dump trucks shall be minimised;
- Tipping halls provided for transfer of public fill from trucks to barges shall be top and 3-sides enclosed;
- Truck speed shall be controlled to within 10km/hr;

- All dusty fill materials shall be sprayed with water or a dust suppression chemical prior to loading, unloading or transfer so as to maintain the fill material wet, except of situations where the moisture content of the dusty material is a matter of concern;
- Loading of public fill delivered by barges to the site shall be sprayed with water at the material landing point to minimise dust emissions except when the materials are sufficiently dampened when landed. Any mist spraying applied should only dampen the dusty materials and overwatering should be avoided;
- Belt conveyor systems used for transfer of dusty materials shall be enclosed on top and 2 sides. Every transfer point between two conveyors shall be totally enclosed. There is no emission associated with the belt conveyor systems;
- Belt conveyor shall be equipped with bottom plates or other similar means to prevent falling of materials from the return belt;
- The vertical distance between the belt conveyor and the material landing point shall be maintained at no more than 1m;
- Dusty materials loaded from a belt conveyor outlet to stockpiles, storage bins, trucks, barges and other open areas shall be sprayed with water or a dust suppression chemical; and
- Final slope surfaces shall be treated by compaction, followed by hydroseeding, vegetation planting or other suitable surface stabilizer approved by CEDD to prevent the washing away of stockpiled material.

Requirements stipulated in the *Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation* and *Development Bureau Technical Circular No.1/2015 (Emissions Control of NRMM in Capital Works Contracts of Public Works)* will continue be followed to control potential emissions from non-road mobile machinery (NRMM) within TKOFB. The *Air Pollution Control (Fuel Restriction) Regulations* which requires the use of liquid fuel with a sulphur content not exceeding 0.005% by weight will continue be followed to control potential emissions from NRMM within TKOFB.

3.8 EVALUATION OF IMPACTS

3.8.1 RSP AND FSP IMPACTS

Cumulative RSP and FSP impacts on the identified ASRs have been assessed. The predicted cumulative 10th highest 24-hour RSP and annual RSP, and 19th highest 24-hour FSP and annual FSP at the worst affected height of the identified ASRs are presented in **Table 3.7**. Detailed results of all relevant assessment heights of each ASR are provided in **Appendix I**.

TABLE 3.7 PREDICTED CUMULATIVE RSP AND FSP CONCENTRATIONS AT THE WORST AFFECTED HEIGHT AT IDENTIFIED ASRS

ASR	Predicted Cumulative Concentration (µg/m³)			
	10th Highest 24-hour RSP [(a)]	Annual RSP	19th Highest 24-hour FSP [(b)]	Annual FSP
A1	58.69	24.26	35.68	14.45
A2	58.58	23.97	35.59	14.33
A3	58.56	22.74	35.65	13.96

ASR	Predicted Cumulative Concentration (μg/m³)			
	10th Highest 24-hour RSP (a)	Annual RSP	19th Highest 24-hour FSP (b)	Annual FSP
A4	58.60	22.73	35.56	13.96
A5	58.56	22.55	35.65	13.89
A6	58.56	22.59	35.43	13.93
A7	58.42	22.19	35.54	13.69
A8	62.94	26.54	38.39	15.63
A9	61.18	23.56	36.28	14.31
A10	63.96	28.74	38.44	16.05
AQO Criteria	**100**	**50**	**50**	**25**

Notes:
(a) The AQO allows 9 exceedances over a year, therefore, the results presented are in the 10th highest.
(b) The AQO allows 18 exceedances over a year, therefore, the results presented are in the 19th highest.

The assessment results show that the cumulative RSP and FSP impacts at the identified ASRs comply with the relevant AQO criteria. Contour plots of cumulative RSP and FSP impacts at the worst-hit level are provided in **Figures 3.7** to **3.10**. It can be seen that there are some exceedance zones predicted outside the Project boundary, but there are no air sensitive uses identified within these exceedance zones as they are all located at the sea. Therefore, adverse RSP and FSP impact due to the proposed design change is not anticipated.

3.8.2 NO_2 IMPACTS

Cumulative NO_2 impacts on the identified ASRs have been assessed. The predicted cumulative 19th highest 1-hour NO_2 and annual NO_2 at the worst affected height of the identified ASRs are presented in **Table 3.8**. Detailed results of all relevant assessment heights of each ASR are provided in **Appendix I**.

TABLE 3.8 PREDICTED CUMULATIVE NO_2 CONCENTRATIONS AT THE WORST AFFECTED HEIGHT AT IDENTIFIED ASRS

ASR	Predicted Cumulative Concentration (μg/m³)	
	19th Highest 1-hour NO_2 (a)	Annual NO_2
A1	127.15	24.42
A2	120.94	20.00
A3	109.45	21.00
A4	106.03	22.54
A5	104.92	21.01
A6	104.99	23.89
A7	97.84	15.05

ASR	Predicted Cumulative Concentration (μg/m³)	
	19th Highest 1-hour NO_2 (a)	Annual NO_2
A8	165.70	23.53
A9	128.87	18.74
A10	153.12	23.01
AQO Criteria	**200**	**40**

Note:
(a) The AQO allows 18 exceedances over a year, therefore, the results presented are in the 19th highest.

The assessment results show that the cumulative NO_2 impacts at the identified ASRs comply with the relevant AQO criteria. Contour plots of cumulative NO_2 impacts at the worst-hit level are provided in **Figures 3.11** to **3.13**. It can be seen that there are some exceedance zones predicted outside the Project boundary. These exceedance zones are located at the sea and within the SENTX landfill gas treatment plant area within which there are no air sensitive uses identified. Therefore, adverse NO_2 impact due to the proposed design change is not anticipated.

3.8.3 SO_2 IMPACTS

Cumulative SO_2 impacts on the identified ASRs have been assessed. The predicted cumulative 4th highest 10-minute SO_2 and 4th highest 24-hour SO_2 at the worst affected height of the identified ASRs are presented in **Table 3.9**. Detailed results of all relevant assessment heights of each ASR are provided in **Appendix I**.

TABLE 3.9 PREDICTED CUMULATIVE SO_2 CONCENTRATIONS AT THE WORST AFFECTED HEIGHT AT IDENTIFIED ASRS

ASR	Predicted Cumulative Concentration (μg/m³)	
	4th Highest 10-minute SO_2 (a)	4th Highest 24-hour SO_2 (a)
A1	26.75	7.54
A2	26.75	7.54
A3	26.74	7.53
A4	26.74	7.53
A5	26.74	7.53
A6	26.74	7.53
A7	26.74	7.53
A8	28.12	7.75
A9	25.81	7.66
A10	27.45	7.66
AQO Criteria	**500**	**50**

ASR	Predicted Cumulative Concentration (μg/m³)	
	4th Highest 10-minute SO_2 (a)	**4th Highest 24-hour SO_2 (a)**

Note:
(a) The AQO allows 3 exceedances over a year, therefore, the results presented are in the 4th highest.

The assessment results show that the cumulative SO_2 impacts at the identified ASRs comply with the relevant AQO criteria. Contour plots of cumulative SO_2 impacts at the worst-hit level are provided in **Figures 3.14** to **3.15**. No exceedance in cumulative SO_2 impact is predicted within the 500m Study Area. Therefore, adverse SO_2 impact due to the proposed design change is not anticipated.

3.9 EM&A REQUIREMENTS

The monitoring locations remain the same as those suggested in the *2023 ERR*. The monitoring frequency and equipment used for the existing 1-hour and 24-hour TSP monitoring as required under the EM&A programme will remain unchanged. 1-hour TSP levels and 24-hour TSP levels will be monitored three times every six days and once every six days, respectively, using high volume samplers (HVS).

4. NOISE

4.1 INTRODUCTION

This *Section* reviews and presents the assessment of the potential noise impact associated with the proposed design changes in TKOFB.

4.2 LEGISLATIVE REQUIREMENTS AND EVALUATION CRITERIA

4.2.1 FIXED PLANT NOISE

The principal legislation for the control noise in Hong Kong is the *EIAO*. The *EIAO-TM*, issued under the *EIAO*, provides guidelines and noise criteria for evaluating the noise impact.

The *Noise Control Ordinance* (NCO) (CAP.400) also provides means to assess operation noise impact. The *Technical Memorandum on Noise From Places Other than Domestic Premises, Public Places or Construction Sites* (IND-TM) issued under the *NCO* specifies the applicable Acceptable Noise Levels (ANLs) for the operation of the TKOFB. The Acceptable Noise Level (ANL) for fixed noise sources, as shown in **Table 4.1**, depends on the Area Sensitivity Ratings (ASRs) of the Noise Sensitive Receivers (NSRs), as defined in accordance with the IND-TM. The level of the intruding noise at the façade of the nearest sensitive use should be at least 5dB(A) below the appropriate ANL or, in the case of the background is 5dB(A) lower than the ANL, should not be higher than the background.

TABLE 4.1 ACCEPTABLE NOISE LEVEL DURING OPERATION PHASE

Time Period	NCO Criteria			ANL - 5dB(A)		
	ASR 'A'	ASR 'B'	ASR 'C'	ASR 'A'	ASR 'B'	ASR 'C'
Daytime (07:00 to 19:00)	60	65	70	55	60	65
Evening (19:00 to 23:00)	60	65	70	55	60	65
Night-time (23:00 to 07:00)	50	55	60	45	50	55

In accordance with the approved EIA Report and the ERR associated with previous VEP applications, noise generated from the use of Powered Mechanical Equipment (PME) in the TKOFB would be within the ANL - 5dB(A) criterion, i.e. 60dB(A) and 50dB(A), during the daytime and evening period, and night-time period, respectively.

4.2.2 ROAD TRAFFIC NOISE

The traffic noise standards for planning purposes specified in Table 1 under Annex 5 of the *EIAO-TM* were employed as the noise limits for the road traffic noise impact assessment. The applicable road traffic noise standards are 70dB(A) $L_{10(1\text{-hour})}$ for domestic premises and homes for the aged, 65dB(A) $L_{10(1\text{-hour})}$ for educational institutions, places of public worship and courts of law, and 60dB(A) $L_{10(1\text{-hour})}$ for hospital and medical clinics. These noise limits were applied for the peak hour traffic flows and for uses that rely on opened windows for ventilation.

In situations where the predicted traffic noise levels at the NSRs are above the noise standards but the noise contribution attributable to TKOFB operations is less than 1.0dB(A), the noise contribution from TKOFB operations is considered insignificant.

4.3 STUDY AREA AND NOISE SENSITIVE RECEIVERS

The Study Area is shown in **Figure 4.1**. The representative NSRs as identified in the *2023 ERR* have been reviewed and remain valid. The locations of the identified representative NSRs are presented in **Figures 4.1a** to **4.1e**. The identified representative NSRs for fixed plant noise are listed in **Table 4.2**.

TABLE 4.2 IDENTIFIED REPRESENTATIVE NSRS FOR FIXED PLANT NOISE WITHIN THE 300M STUDY AREA

NSR	NSR Description	Type of Use	Status	ASR Rating
IR1	Island Resort	Residential	Existing	B
LP2	Lohas Park, Le Prestige Moonlight	Residential	Existing	B
LP4	Lohas Park, Wings at Sea	Residential	Existing	B

4.4 POTENTIAL SOURCES OF NOISE EMISSIONS

4.4.1 FIXED PLANT OPERATION

Noise will arise from the operation of the crushers, screening machine at the C&DMCF as well as other PMEs within TKOFB. NSRs Island Resort (IR1) and Lohas Park, Le Prestige Moonlight (LP2) and Lohas Park, Wings at Sea (LP4) are considered the worst assessment points in terms of fixed plant noise impact. Potential operation fixed noise impacts at these NSRs have been assessed. Operation fixed plant inventory (including truck movement along haul roads) during daytime/evening and nighttime periods within TKOFB are provided in **Appendix J**. The adopted fixed plant inventory and utilization rate for the calculation of fixed noise impact assessment were provided by the Project Engineer of CEDD. The locations of key noise sources are shown in **Figure 4.2**.

Compared with the assumptions in the *2023 ERR*, the proposed changes to the TKOFB operation include the following:

- Updated haul road alignment and truck movement within TKOFB; and
- Updated locations and number of PMEs within stockpiling and TKO Basin area.

4.4.2 ROAD TRAFFIC NOISE

As described in **Section 2.1**, no additional off-site road traffic will be generated by the proposed design change in TKOFB. The number of trucks associated with the transportation of materials to the TKOFB (i.e. public roads outside the TKOFB) will remain unchanged. Therefore, there is no change to the road traffic noise impact assessment conducted in Year 2021 (hereinafter referred to as *2021 ERR*) for the VEP application (i.e. VEP-603/2021) for the preceding approved EP (i.e. EP-134/2002/O), and the assessment results as presented in *2021 ERR* remain valid. There will be no adverse road traffic noise impact due to the proposed changes at TKOFB.

4.5 ASSESSMENT METHODOLOGY

4.5.1 FIXED PLANT OPERATION

Noise impact assessment due to fixed plant noise from TKOFB is undertaken based on standard acoustic principles as per the requirements of the *EIAO-TM*.

4.6 EVALUATION OF IMPACTS

4.6.1 FIXED PLANT OPERATION

The predicted noise levels at the representative NSRs due to the proposed changes at TKOFB are summarised in **Table 4.3**. The predicted noise levels comply with the noise criteria (i.e. ANL - 5dB(A)) as stated in **Section 4.2.1**. Details of the calculations are provided in **Appendix J**.

TABLE 4.3 PREDICTED OPERATION NOISE LEVELS AT REPRESENTATIVE NSRS FOR FIXED PLANT NOISE

NSR	NSR Description	Predicted Noise Level with Proposed Changes, dB(A)			Noise Criteria (ANL - 5dB(A)), dB(A)		
		Daytime	Evening	Night-time	Daytime	Evening	Night-time
IR1	Island Resort	55	55	46	60	60	50
LP2	The Lohas Park, Le Prestige Moonlight	54	54	42	60	60	50
LP4	The Lohas Park, Wing at Sea	54	54	42	60	60	50

Based on the above-mentioned results, adverse fixed plant noise impact due to the proposed change in TKOFB is not expected.

4.7 CUMULATIVE IMPACT

The predicted maximum operation noise levels at the Island Resort and Lohas Park due to SENTX operation are provided in the approved EIA Report for SENTX (i.e. AEIAR-117/2008). The cumulative noise levels at the Island Resort and Lohas Park taking into account of the operation noise from TKOFB and SENTX are summarised in **Table 4.4**. Details of the calculations are provided in **Appendix J**.

TABLE 4.4 CUMULATIVE NOISE LEVELS AT REPRESENTATIVE NSRS FOR FIXED PLANT NOISE

NSR	NSR Description	Max. Noise Level from SENTX, dB(A)			Cumulative Noise Level with Proposed Changes, dB(A)			Noise Criteria (ANL - 5dB(A)), dB(A)		
		Day-time	Even-ing	Night-time	Day-time	Even-ing	Night-time	Day-time	Even-ing	Night-time
IR1	Island Resort	50	50	46	56	56	49	60	60	50

NSR	NSR Description	Max. Noise Level from SENTX, dB(A)			Cumulative Noise Level with Proposed Changes, dB(A)			Noise Criteria (ANL - 5dB(A)), dB(A)		
		Day-time	Even-ing	Night-time	Day-time	Even-ing	Night-time	Day-time	Even-ing	Night-time
LP2 (a)	The Lohas Park, Le Prestige Moonlight	53	53	47	57	57	48	60	60	50
LP4	The Lohas Park, Wing at Sea	53	53	47	57	57	48	60	60	50

Note:
(a) Maximum noise levels from SENTX at LP2 during daytime, evening and night-time periods have been adopted for conservative approach.

As shown in **Table 4.4**, cumulative noise levels at the representative NSRs comply with the noise criteria for all periods. Hence, adverse cumulative noise impact from the proposed changes in TKOFB is not anticipated.

4.8 MITIGATION MEASURES

The contractor will continue to implement the noise management measures currently adopted as per the recommendations in *Section 5.5.13 of the approved EIA Report*.

As no adverse noise impact is expected due to the proposed changes in TKOFB, additional mitigation measures are considered not necessary.

4.9 EM&A REQUIREMENTS

Noise monitoring is being carried out outside of site egress along Wan Po Road (i.e. TKO-N1) for 30 minutes ($L_{eq(30\text{-}min)}$) once every month. The monitoring location and frequency of noise monitoring will remain unchanged. No additional EM&A requirement related to noise is considered necessary.

5. WATER QUALITY

5.1 EXISTING CONDITIONS

The key concern for water quality from the existing operation of the TKOFB is the loss of fine content into surface runoff (from erosion and rainfall). Regular water quality monitoring has been conducted under the EM&A for the corresponding EP since the commissioning in Year 2003. Review of EM&A reports in the last 3 years (October 2022 to September 2024) indicated there were no recorded exceedances of the corresponding Action and Limit Levels at the specified monitoring locations (including those originally prescribed in the EM&A Manual, as well as those added in response to the operation of new barging points for the Third Runway Project (3RS) since Year 2008). The graphs of the regular water quality monitoring results in the last 3 years extracted from the EM&A reports are presented in **Appendix K**. This indicates the existing infrastructures for control of water pollution are generally sufficient to handle the level of site runoff generated, to a level deemed satisfactory specified under the EM&A Manual.

The control of runoff from the existing operation relies on two main drainage channels (one in the south and one in the north of the Project site) and temporary intercepting drains surrounding the stockpiling area, in accordance with the approved EIA report/previous ERRs. Locations of these existing mitigation measures under the existing drainage arrangement of TKOFB are illustrated in **Figure 5.1a**. The indicative section view of these existing mitigation measures at stockpiling area are illustrated in **Figure 5.2a**.

Because of site topology, runoff collected by the temporary intercepting drains at the stockpiling area naturally runs either northward or southward and eventually be diverted into the drainage channels. The drainage channels are equipped with multiple stages of rock weirs (which serve as silt traps) which promote sedimentation and thus clean up the discharge. Further to the sedimentation within the drainage channels, runoff would also be pumped into wastewater treatment facilities specified under the current WPCO license (Licence No. WT00041169-2022) for treatment before discharge.

5.2 POTENTIAL IMPLICATIONS ON WATER QUALITY FROM PROPOSED CHANGES

Due to the occupied areas at the north by TKOFB utilities (e.g. site offices, barging facilities at TKO basins etc.), the northern part of stockpiling area is essentially limited from extension and will remain unchanged. The proposed extension of stockpiling area focuses on the west / south-west part of TKOFB (seaward side of stockpiling area south of the TKO Basin).

The proposed changes of extending the stockpiling area (south of the TKO Basin) further up to 50m from the seafront (from 100m from the seafront currently) are not expected to result in any notable change in terms of the nature of the potential water quality impact. Instead, there may be a potential increase of silt load in the runoff due to the increased stockpiling capacity. Also, given the expansion of the stockpiling area, it is also necessary to ensure there would not be a corresponding change in the route of exposure (i.e. runoff evades the design measures for collection and reaches the sea without treatment).

5.3 IMPACT EVALUATION

Given the increase in the stockpiling capacity, there may be potential increase of silt load in the runoff after the expansion of the stockpiling area. The current design of drainage channels with multiple stages of rock weirs is generally able to accommodate the runoff collection. Furthermore, additional drainage channel, fitted with silt trap(s) would also be built on the seaward side of the expanded area to provide additional drainage capacity (as shown in **Figure 5.1b**). The new drainage channel would be connected to the existing south drainage channels and for ultimate discharge at the same existing outfalls.

The increase in the stockpiling capacity is not expected to increase the amount of runoff, therefore the flow capacity of the existing wastewater treatment facilities is expected to remain sufficient. However due to the potential increase of silt load in the runoff, the contractor is recommended to carry out more frequent inspections of the wastewater treatment facilities and remove the accumulated sludge/solids in the facilities more frequently, if necessary, to ensure the normal operation of the wastewater treatment facilities.

Following the existing arrangement, temporary intercepting drains would be installed surrounding the expanded stockpiling area to divert polluted stormwater to the main drainage channels. To further prevent the materials reaching to the sea, gabion wall will be installed along the periphery of the existing stockpiling area, and rock bund will be installed along the periphery of the expanded stockpiling area towards the seaward side upon implementation of the expanded stockpiling area. Additionally, as a precautionary measure, a barrier made of concrete blocks is also set up towards the seaward side of the stockpiling area, to avoid the runoff from directly reaching to the sea.

Locations of these mitigation measures (including the proposed additional measures) under the drainage arrangement of TKOFB with proposed operation changes are illustrated in **Figure 5.1b**. The indicative section view of these water quality mitigation measures (including the proposed additional mitigation measures) at seaward side of stockpiling area are illustrated in **Figure 5.2b**. The drainage plan would be updated and submitted under EP Condition 2.4 to indicate the proposed changes in the drainage arrangement of TKOFB before implementation of the expanded stockpiling area.

With the implementation of proposed additional measures (as well as the continuous implementation of existing measures stipulated under the approved EIA and previous ERRs), no adverse water quality impact would be expected from the operation of the proposed expanded stockpiling area. The implementation of these proposed additional measures (i.e. erecting the gabion wall and rock bund, installing the temporary intercepting drains, placing the concrete block barrier, and constructing additional section of the drainage channel) would only involve minor works with limited footprint, and thus the associated environmental impacts (e.g. air quality and noise) would be minimal and not of concern.

5.4 MITIGATION MEASURES

Practical mitigation measures were recommended to minimise the potential impact as stated in the approved EIA Report and previous ERRs. These measures should be continued during the operation of the TKOFB. Good practices for handling and disposal of construction site discharges as stipulated in the EPD's ProPECC PN1/23 *Drainage Plans subject to Comment by the Environmental Protection Department -Building (Standards of Sanitary Fitments, Plumbing,*

Drainage Works and Latrines) Regulations and EPD's ProPECC PN2/23 *Construction Site Drainage* should be followed.

The following specific measures to control the potential water quality impact should be implemented for the expanded stockpiling area:

- Additional drainage channel, fitted with silt trap for silt removal, should be installed to the seaward side of the expanded area to provide additional drainage capacity (as shown in **Figure 5.1b**);
- The wastewater treatment facilities should be frequently inspected, and the accumulated sludge/solids in the facilities should be removed more frequently if necessary, to ensure the normal operation of the wastewater treatment facilities; and
- Gabion wall, rock bunds and concrete blocks (as shown in **Figure 5.1b**) should be installed to prevent the migration of fill materials and potential water quality impact.

Similar to the existing operations, public fill will be delivered to and removed from the TKOFB by barges at the barging points during the TKOFB operation. To prevent water pollution due to the transportation of fill materials by barges, all environmental control and mitigation measures recommended in the approved EIA Report and previous ERRs will be followed, and the key mitigation measures are listed below:

- All barges used should be of an appropriate size such that adequate clearance is maintained between the vessels and the seabed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movements;
- All vessels used for transportation of fill material should have tight fitting seals to their bottom openings to prevent leakage of materials during transport;
- The equipment and transfer methods used shall avoid dropping fill materials into the sea during the transfers at all times;
- Barges should not be filled to a level which may cause the overflow of materials during loading or transportation;
- Barge effluents (e.g. muddy water) should be properly collected and treated prior to disposal; and
- Adequately designed and constructed catchpits, sand and silt removal facilities and intercepting channels should be maintained, and the deposited silt and grit should be removed weekly and on a need basis especially during the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.

With the implementation of the appropriate mitigation measures, it is anticipated that no adverse water quality impact will arise as a result of the proposed changes in TKOFB operation.

5.5 EM&A REQUIREMENTS

The existing water quality monitoring exercise for EM&A is deemed sufficient and suitable for the TKOFB operation with the expanded stockpiling area. No change to the existing water quality monitoring arrangement is deemed necessary. Regular site audits should be conducted to ensure the implementation of additional mitigation measures.

6. OTHER ENVIRONMENTAL OUTCOMES

6.1 LANDSCAPE AND VISUAL

6.1.1 LANDSCAPE AND VISUAL IMPLICATIONS

The stockpiling area of TKOFB will be extended from 100m to 50m from the seafront. No existing landscape resources, including existing trees, are present within the proposed extended area. Hence, no issues of landscape impact are anticipated due to the proposed changes in TKOFB.

6.1.2 NIGHT-TIME GLARE

Additional illuminations may be required due to the proposed changes in TKOFB. Following the existing operations within TKOFB, illuminations shall be provided at active works areas only, such as C&DMCF, C&DMSFs, TKOSF, barging points, access roads and the working areas of the stockpiling area. Night-time glare may cause nuisance to adjacent visual sensitive receivers at nighttime if the lighting intensity and direction are not properly controlled.

To avoid light spills to the surrounding area, all lightings provided at night should be directional downward, generally focused and shielded to reduce glare and should illuminate the required areas only. Other possible control measures as recommended in the *Guidelines on Industry Best Practices for External Lighting Installations* published by Environment Bureau (currently Environment and Ecology Bureau) in June 2015 shall be followed where appropriate and as far as practicable. Yet, given the large separation distance between the nearest residential and the TKOFB (i.e. more than 1.8km), the light intensity would drop significantly and therefore the light glare is not considered significant.

With the continued implementation of the above-mentioned measures, no significant night-time glare nuisance due to the proposed design changes in TKOFB is anticipated.

6.2 LANDFILL GAS HAZARD

About 11.88ha of the TKOFB area is located within the 250m consultation zone of the SENT Landfill, as shown in **Figure 6.1**. A qualitative risk assessment had been carried out in the approved EIA Report (AEIAR-060/2002) and concluded that the risk associated with the landfill gas migration hazard of SENT landfill is low with the implementation of the mitigation measures stipulated in the current EP of TKOFB (i.e. EP-134/2002/Q).

The SENTX Landfill has commissioned since November 2021. About 17.35ha of the TKOFB area is located with the 250m consultation zone of the SENTX Landfill as shown in **Figure 6.1**. As reported in the approved EIA report for SENTX Landfill (i.e. AEIAR-117/2008), the ERR supporting the VEP for SENTX Landfill (i.e. VEP-348/2011), the risk posed by the SENTX Landfill to adjacent developments ranges from very low to low depending on the nature and location of these developments. The TKOFB area falling within the 250m consultation zone of the SENTX Landfill will be occupied by open stockpiling areas and site haul roads.

All operation works of the TKOFB within the landfill consultation zones will be carried out above ground. Only surface channels will be used for collection of surface drainage run-off. Thus, no underground drainage and sewerage systems including underground pipelines and chambers will be installed within the consultation zones. Most of the site offices for the contractor and

the resident supervising staff will be located outside the consultation zones to minimize the potential risk of the landfill gas. An existing site office with an inspection platform is located at the site entrance, and the combined reception and exit office is immediate to the south of the site entrance. These buildings are currently located within the landfill consultation zones. The container type office is supported by a raised hollow platform that allow natural ventilation and avoid accumulation of landfill gas, if any, beneath the office. This measure is demonstrated to be effective to prevent landfill gas accumulation within the office. As part of the proposed changes to TKOFB operation, these buildings will be relocated to the southern part of the TKOFB, outside of the landfill consultation zones. It is thus expected that there will be no issues with respect to landfill gas hazard as a result of the proposed changes in TKOFB operation.

With the continued adoption of the precaution and safety measures recommended in the approved EIA report and the EP of TKOFB, the potential landfill gas hazard due to the operation of TKOFB with the proposed changes will be low. Thus, no issues of landfill gas hazard are anticipated due to the proposed changes at TKOFB.

6.3 CULTURAL HERITAGE

As reported in the approved EIA Report and the ERR for VEP (i.e. VEP-624/2023) (hereinafter referred to as *2022 ERR*), the Tsung Kwan O Area 137 is a reclaimed land and there is no cultural heritage concern onsite. As stated in the EIA Study Brief, Junk Island House Ruin on Fat Tong Chau, i.e. the Fat Tau Chau House Ruin Site of Archaeological Interest (SAI) is located to the north of the TKOFB. There will not be any works associated with the operation of TKOFB at Fat Tong Chau.

As stated in the *2022 ERR*, the SAI is located at the mountainous area with an elevation of about +20mPD to +30mPD, separated from the TKOFB and is not easily accessible by public. The Fat Tau Chau House Ruin SAI is about 430m away from the nearest stockpiling area. As the proposed extension of stockpiling area focuses on the west /south-west part of TKOFB (seaward side of stockpiling area), whereas the northern part of the stockpiling area essentially will remain unchanged, the distance of the Fat Tau Chau House Ruin SAI to the stockpiling area also remains unchanged. Besides, TKOFB also has a 2.4m high fencing erected and maintained along the northern site boundary abutting Fat Tong Chau to avoid any accidental disturbance of the SAI by the workers. Disturbance, visual impact and structural impact to the SAI were not expected.

Since commission of the TKOFB, these environmental settings have been unchanged. The proposed changes in TKOFB would not alter the environmental settings or the operation mode of the TKOFB. Thus, no issues of cultural heritage impacts are anticipated due to the proposed design changes in TKOFB.

6.4 ECOLOGY

As stated in the *approved EIA Report*, potential impact on ecology was avoided through proper site selection. As Tseung Kwan O Area 137 was formed by reclamation, there are no recognized sites of conservation importance and important ecological habitats. Besides, a buffer distance of at least 10m would be provided along the eastern boundary of TKOFB to separate the TKOFB from the western boundary of the Clear Water Bay Country Park.

Since the commission of the TKOFB, these environmental settings have been unchanged. The proposed changes in TKOFB would not alter the environmental settings or the operation mode of the TKOFB. Thus, no issues of ecological impacts are anticipated due to the proposed changes in TKOFB.

7. CONLCUSION AND CONSIDERATION OF MATERIAL CHANGE

As the earmarked site for Tseung Kwan O Desalination Plant and proposed concrete batching plant within the original project boundary has been handed over to WSD and the operator respectively. It is proposed to update the project boundary. The project site area has also been reduced from approximately 90 hectares to approximately 80 hectares. In order to cater for the foreseeable increasing surplus fill generated in the near future until at least the end of 2026, CEDD proposes to increase the total stockpiling capacity from 12 million m^3 to 13 million m^3 with limited project site area by extending the stockpiling area from 100m to 50m from seafront.

The proposed changes to the TKOFB operation have the potential to cause changes in environmental impacts and an environmental review is thus required to confirm its environmental acceptability. In this connection, CEDD has commissioned ERM-Hong Kong, Limited (ERM) to undertake an environmental review to assess the potential environmental impacts from the proposed changes to the TKOFB operation.

An environmental review has been carried out to assess the potential environmental impacts associated with the proposed changes at TKOFB. The findings of this environmental review serve to support the application for variation of environmental permit for the Project under Section 13 of the EIAO. This environmental review indicates that no adverse environmental impacts are anticipated.

The environmental impacts associated with the proposed changes at TKOFB comply with the requirements described in the EIAO-TM and will not constitute a material change to the environmental impact of the TKOFB with the mitigation measures in place with reference to Section 6.2 of the EIAO-TM. The existing and proposed environmental mitigation measures and EM&A programme are considered applicable. It is considered that the proposed changes could be incorporated into the EP of TKOFB via a variation of the existing EP.

8. PROPOSED VARIATIONS OF THE EXISTING EP

8.1 PROPOSED AMENDMENT OF FIGURE 1 OF THE EP

The earmarked site for TKODP and proposed concrete batching plant within the original TKOFB boundary has been handed over to WSD and the operator respectively. It is proposed to update the boundary of TKOFB. The proposed update to Figure 1 of EP is illustrated in **Figure 8.1**.

8.2 PROPOSED AMENDMENT OF FIGURE 3 OF THE EP

It is proposed to update the boundary of TKOFB. The proposed update to Figure 3 of EP is illustrated in **Figure 8.2**.

8.3 PROPOSED AMENDMENT OF CONDITION 2.19 IN PART C OF EP

It is proposed to amend Condition 2.19 in Part C of the EP as follows:

*"The public fill stockpiling area shall be at least ~~**100**~~ **50** m from the seafront."*

8.4 PROPOSED AMENDMENT OF PART B OF EP

It is proposed to amend the area of project site stated under Scale and Scope of Designated Project in Part of the EP as follows:

*"The project site covers an area of approximately ~~**90**~~ **80** hectares."*

Additionally, it is proposed to amend Point No. 3 of Scale and Scope of Designated Project in Part B of the EP as follows:

*"3. stockpiling of ~~**12**~~ **13** million m^3 of public fill;"*

FAT TONG CHAU

露天貨倉
Open Storage

IB4
IB1
IB3
Seawall
海堤
B3
B2
IB2
B1
C&DMCF
NSE
NB5
NSD
NB4
HWM
TKOSF
鐵箒洲
TIT CHAM CHAU
Rocky Area
Works in progress
碼頭
Pier
TIN H
50
100
N
Metres
0
100
200

Legend

- Tseung Kwan O Fill Bank
- Indicative Stockpiling Areas

Key facilities

- TKOFB Construction & Demolition Material Crushing Facility
- Construction & Demolition Material Sorting Facilities (Others)
- TKO Sorting Facility
- TKOFB Barging Points for Exporting Materials
- TKOFB Barging Points for Importing Materials
- Other Barging Points for Exporting Materials
- Proposed Concrete Batching Plant
- Earmarked Site for Desalination Plant

Figure 2.1

Site Boundary and Locations of Key Facilities at TKOFB
(Operation with Proposed Changes)

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Key_Facilities_and_Barging_Points.mxd
Date: 4/9/2024

FAT TONG CHAU

露天貨倉
Open Storage

IB4
IB1
IB3
Seawall
海堤
B3
B2
IB2
B1
C&DMCF
NSE
NB5
NSD
NB4
HWM
Works in progress
TKOSF
碼頭
Pier
鐵箩洲
TIT CHAM CHAU
Rocky Area
岩地
N
Metres
0
100
200

Legend

- Tseung Kwan O Fill Bank
- Indicative Stockpiling Areas

Key facilities

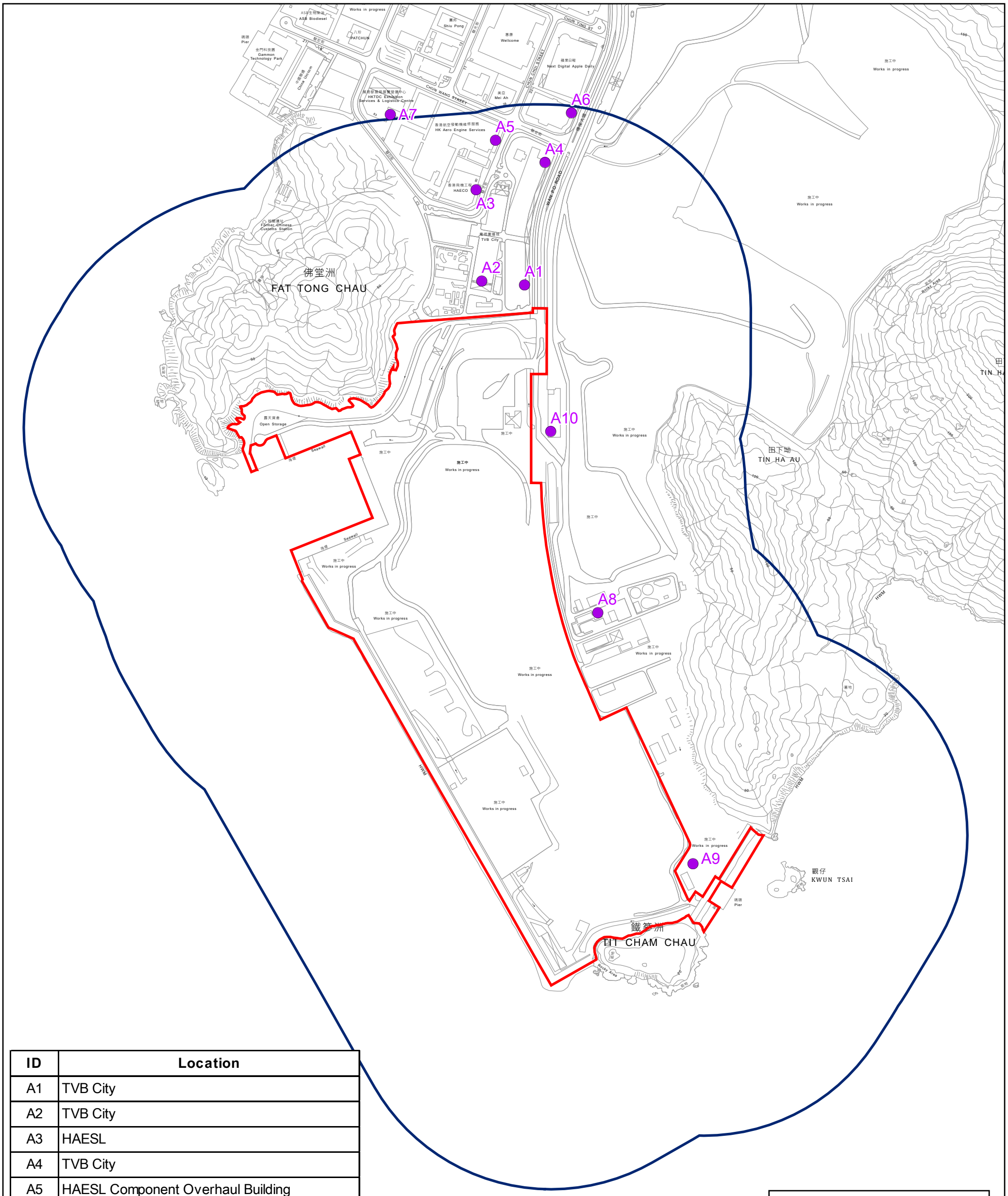
- TKOFB Construction & Demolition Material Crushing Facility
- Construction & Demolition Material Sorting Facilities (Others)
- TKO Sorting Facility
- TKOFB Barging Points for Exporting Materials
- TKOFB Barging Points for Importing Materials
- Other Barging Points for Exporting Materials
- Proposed Concrete Batching Plant
- Earmarked Site for Desalination Plant

Figure 2.2

Site Boundary and Locations of Key Facilities at TKOFB
(Current Condition)

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Key_Facilities_and_Barging_Points_(Current).mxd
Date: 4/9/2024



ID	Location
A1	TVB City
A2	TVB City
A3	HAESL
A4	TVB City
A5	HAESL Component Overhaul Building
A6	Digital Savvis Investment
A7	Trade Development Council
A8	Office Building of SENT Landfill Extension
A9	Office Building of Desalination Plant
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited

Figure 3.1

Locations of Representative Air Sensitive Receivers

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_ASR.mxd
Date: 25/6/2024

佛堂洲
FAT TONG CHAU

鐵箒洲
LIT CHAM CHAU

田下坳
TIN HA AU

觀仔
KWUN TSAI

A1 A2 A3 A4 A5 A6 A7 A8 A9 A10

R1a R1b R2a R2b R2c R2d R2e R2f R3 R4 R5 R6 R7 R8 R9a R9b R9c R11 R11a R12

SP3a SP3b SP3c SP3d SP3f SP3g SP3h SP3i

A001 A002 A003 A004

C&DMCF TKOSF NSE NSD

B1 B2 B3 IB1 IB2 IB3 IB4 NB4 NB5

HWM

N
Metres
0 150 300

Legend

- ASR
- Construction & Demolition Material Sorting Facilities (Others)
- Fill Loading and Unloading Points
- Other Barging Points for Exporting Materials
- TKOFB Barging Points for Exporting Materials
- TKOFB Barging Points for Importing Materials
- TKOFB Construction & Demolition Material Crushing Facility
- TKO Sorting Facility
- Generators
- Haul Roads
- Marine Vessel Maneuvering Route
- Tseung Kwan O Fill Bank
- Tseung Kwan O Fill Bank 500m Study Area
- Open Area
- Stockpiling Area

Figure 3.2

Locations of Major Emission Sources associated with Tseung Kwan O Fill Bank Operation

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Major_Emission_Sources.mxd
Date: 25/6/2024

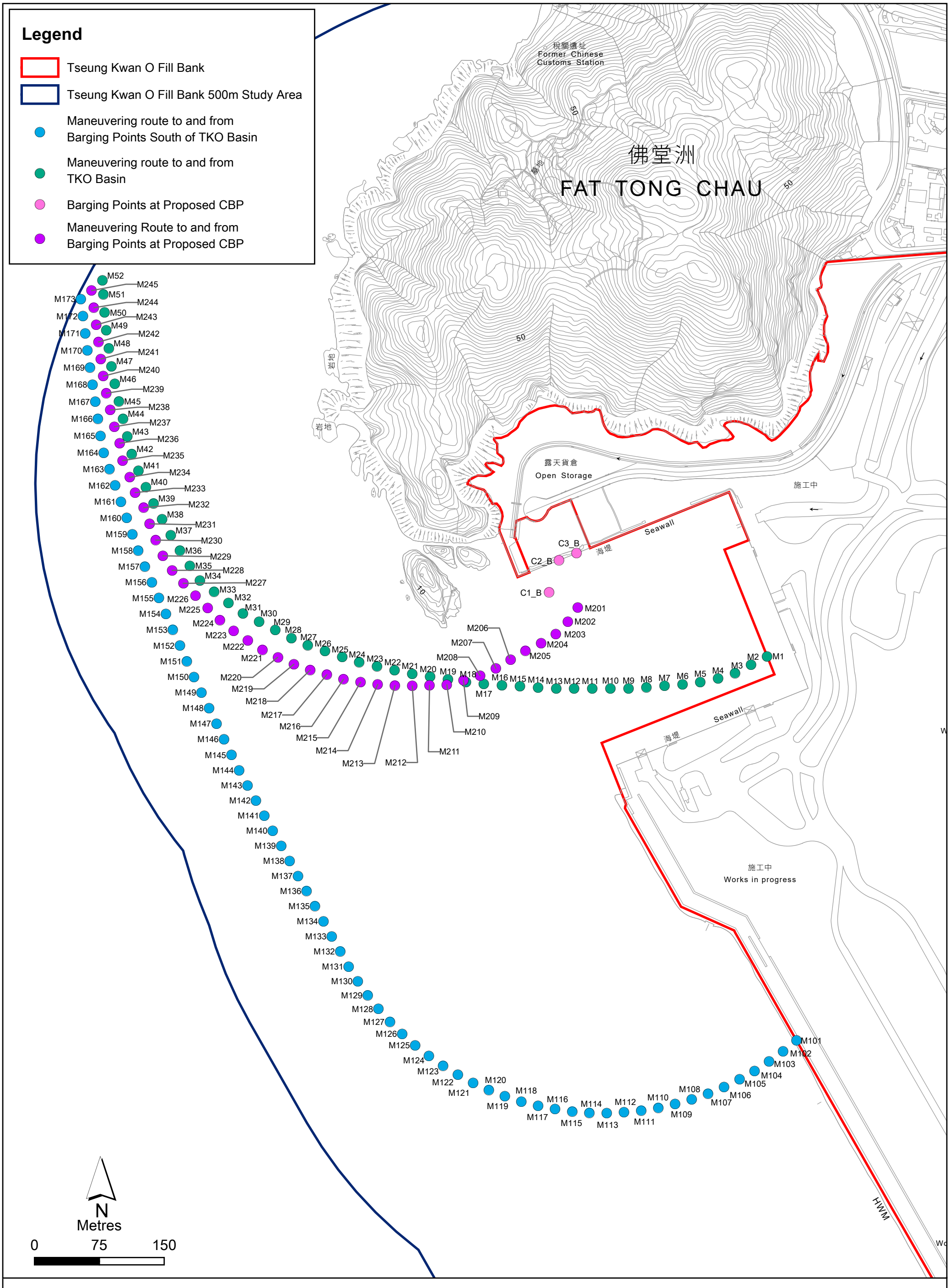


Figure 3.3

Marine Vessel Maneuvering Route at TKOFB

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Marine_Vessel_Maneuvering_Route.mxd
Date: 24/10/2024

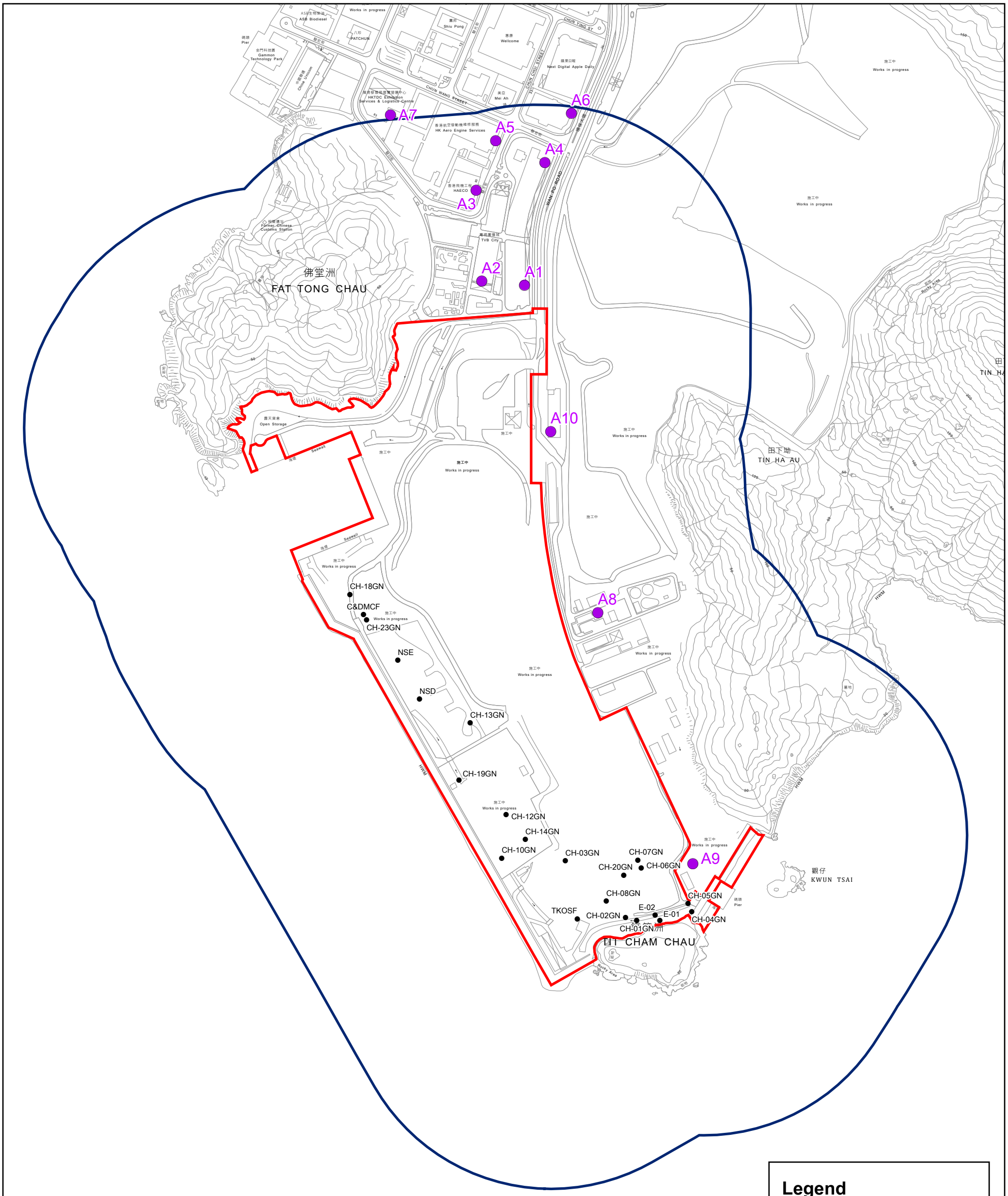


Figure 3.4

Locations of Generators and Internal Crushers
(Internal Combustion Engines) within Tseung Kwan O Fill Bank

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Generators_and_Internal_Crushers.mxd
Date: 25/6/2024

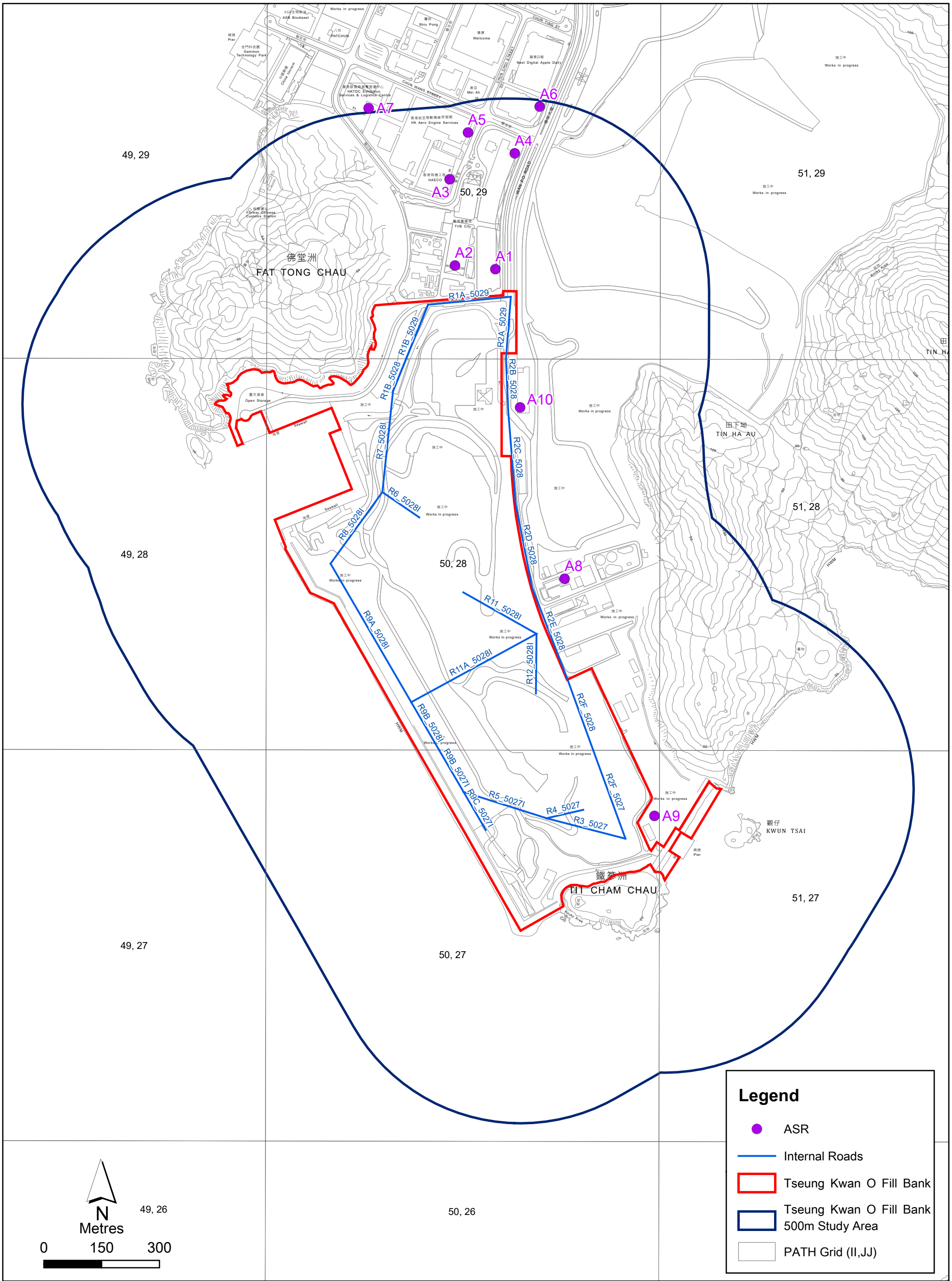


Figure 3.5

Internal Roads within TKOFB

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Internal_Roads_within_TKOFB.mxd
Date: 23/8/2024

佛堂洲
FAT TONG CHAU

田下坳
TIN HA AU

鐵篦洲
LIT CHAM CHAU

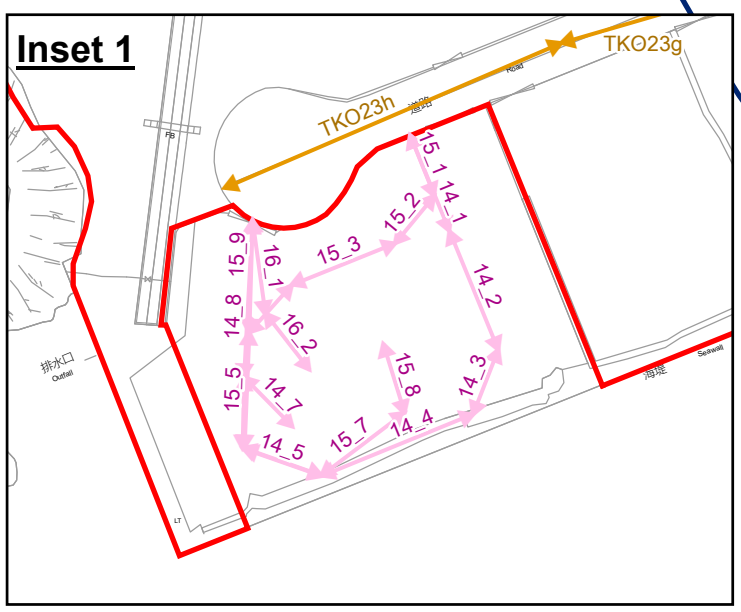
觀仔
KWUN TSAI

A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
HO
TO
F1
LG

TKO15_1
TKO17_1
TKO20_1
TKO19_1
TKO16_3
TKO16_1
TKO16_2
TKO21_1
TKO21_2
TKO23a
TKO23b
TKO23c
TKO23d
TKO23e
TKO23f
TKO23g
TKO23h
TKO22a
TKO22b
TKO22c
TKO22d
TKO22e
TKO22f
TKO22g
TKO22h

Inset 1

N
Metres
0 150 300



Legend

- ASR
- Stacks of SENT Landfill Extension
- HAESL
- External Roads to Proposed Concrete Batching Plant
- External Roads to SENTX
- External Roads (with Start Emission)
- Internal Roads of Proposed Concrete Batching Plant (CVEH_xx)
- SENT Landfill Extension Active Filling Area
- Tseung Kwan O Fill Bank
- Tseung Kwan O Fill Bank 500m Study Area
- Proposed Concrete Batching Plant

Figure 3.6

External Roads and Industrial Sources within 500m Study Area

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_External_Roads_and_Industrial_Sources.mxd
Date: 24/10/2024

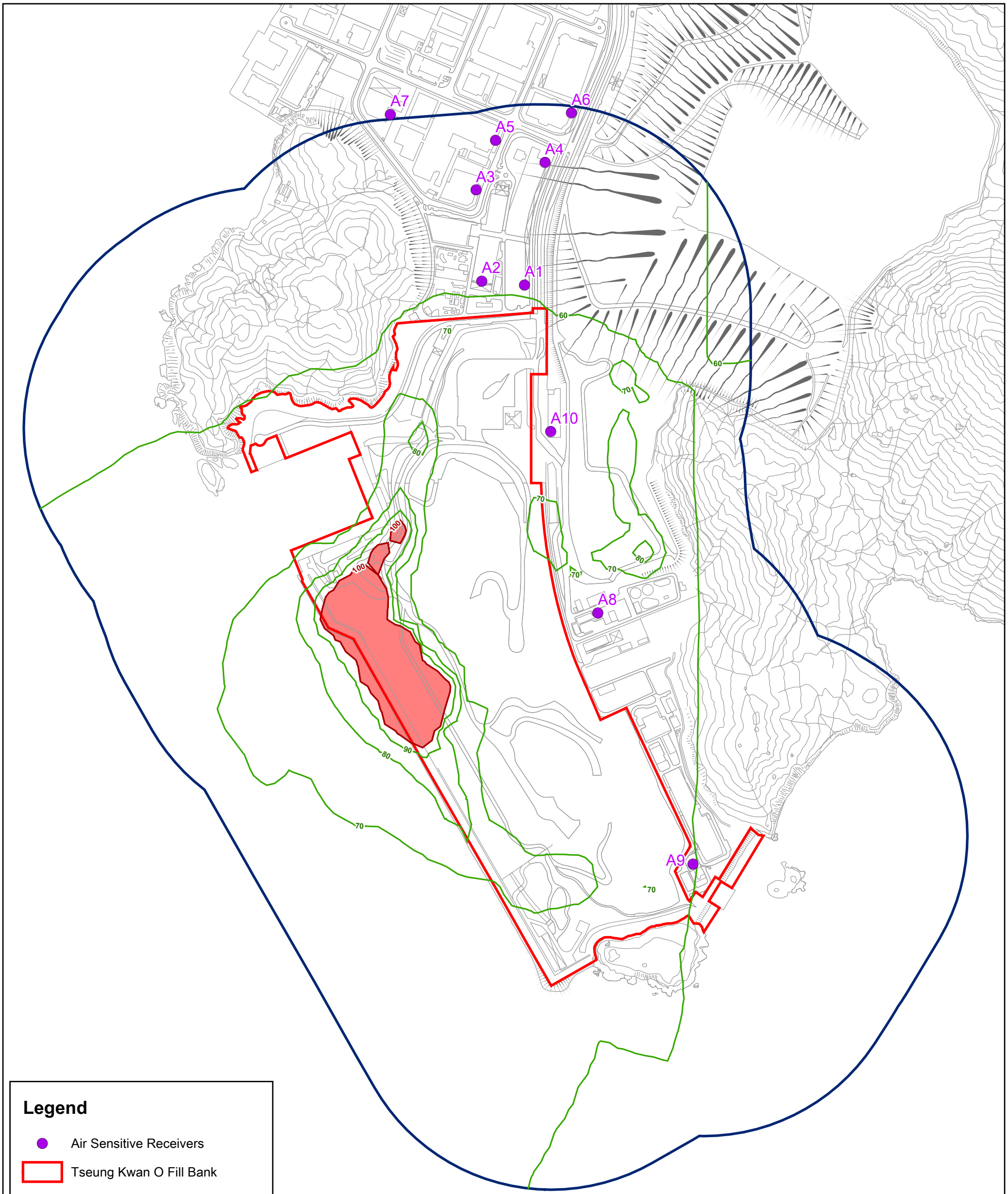


Figure 3.7

Contours of Cumulative 10th Highest 24-Hour Average RSP Concentration at 1.5m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_RSPST.mxd
Date: 11/11/2024

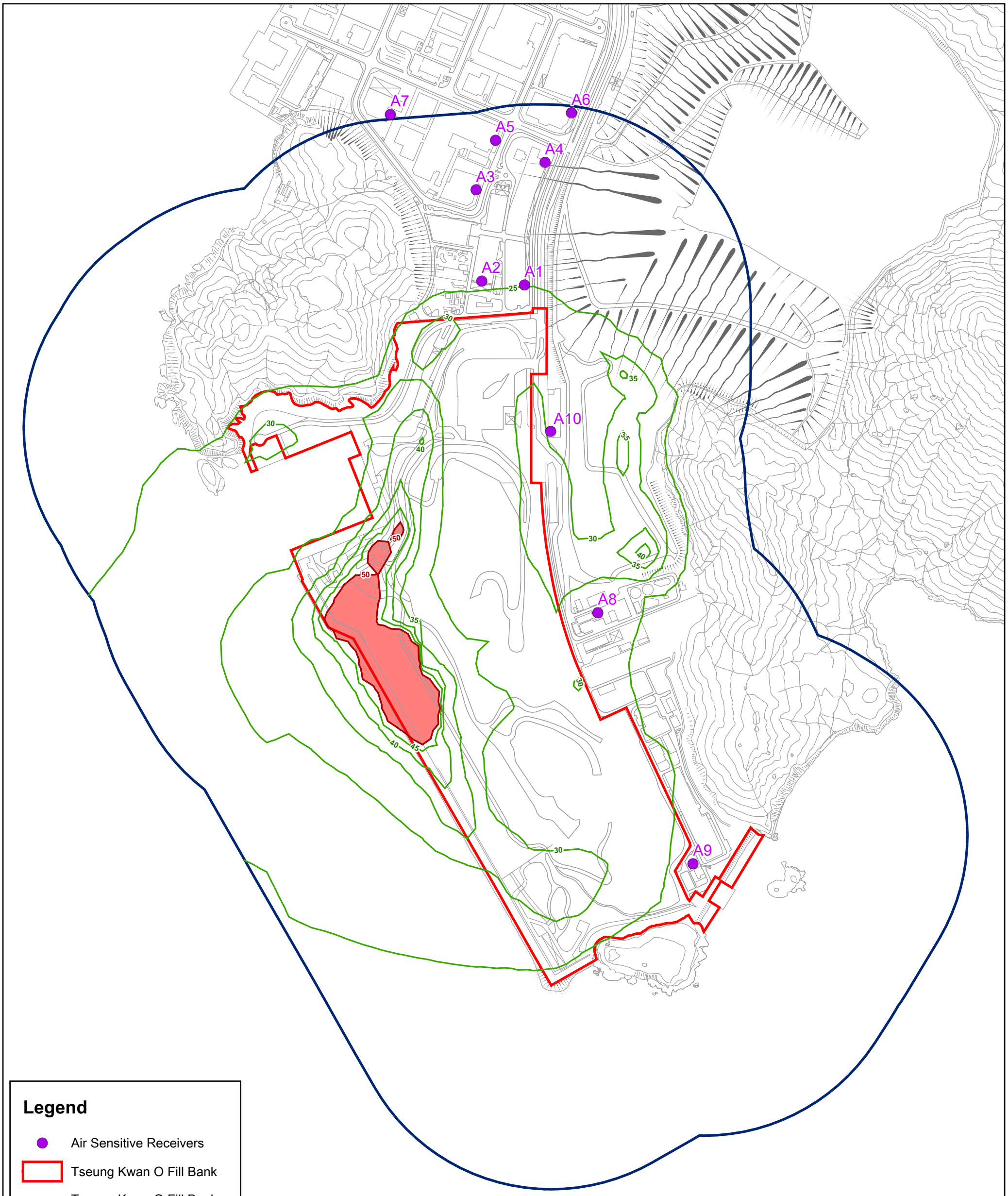


Figure 3.8

Contours of Cumulative Annual Average RSP Concentration at 1.5m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_RSPLT.mxd
Date: 11/11/2024

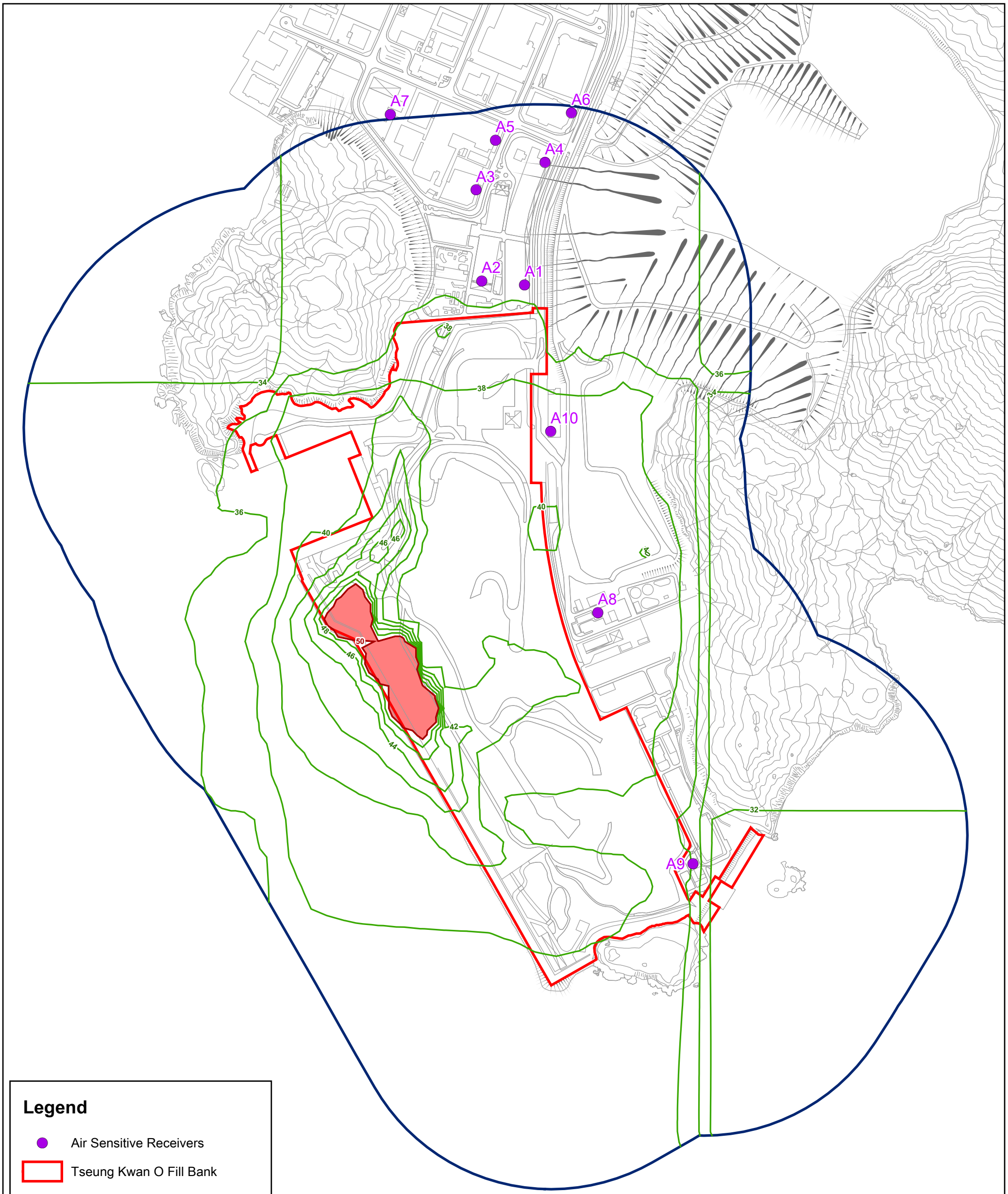


Figure 3.9

Contours of Cumulative 19th Highest 24-Hour Average FSP Concentration at 1.5m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_FSPST.mxd
Date: 11/11/2024

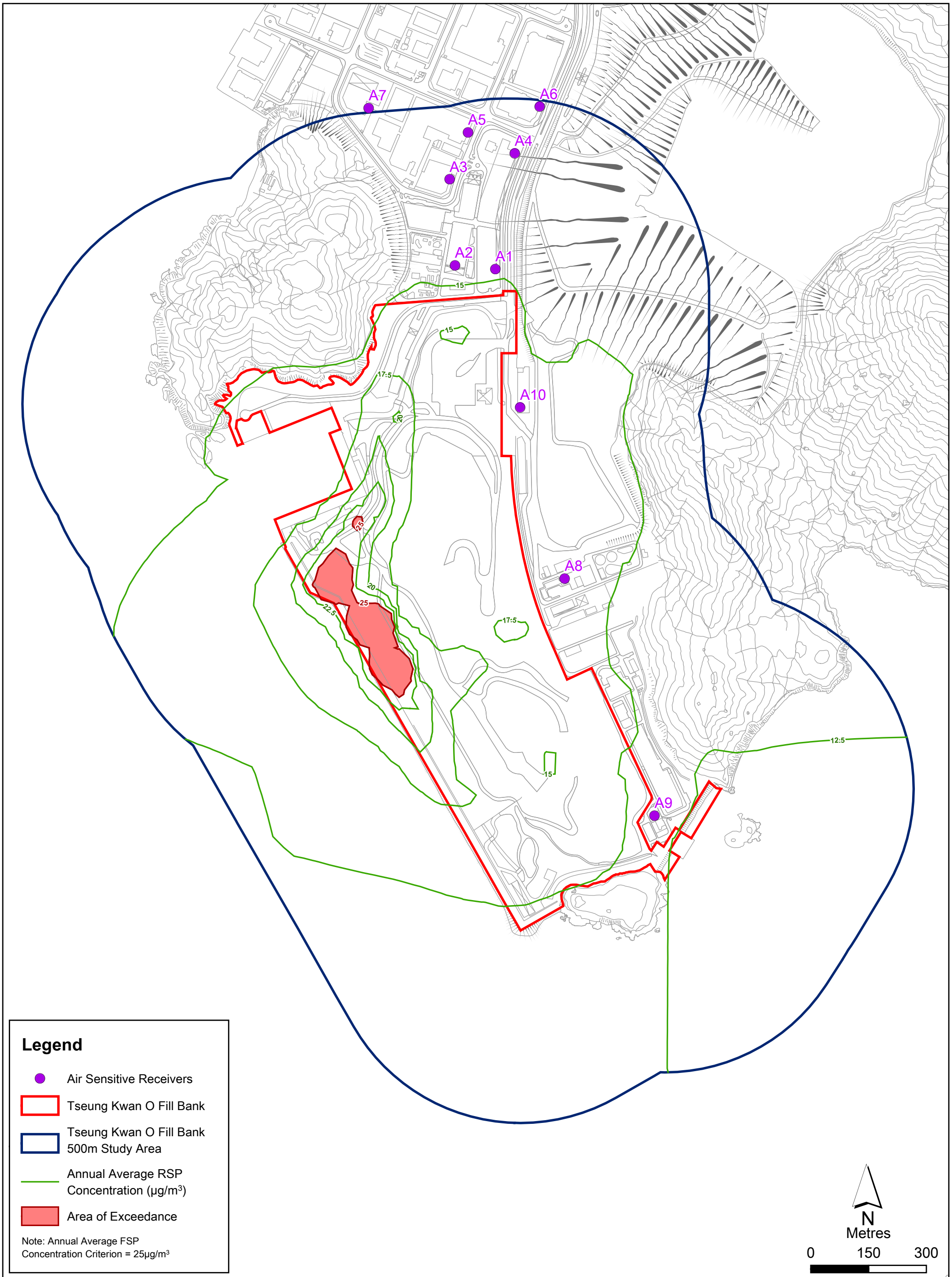


Figure 3.10

Contours of Cumulative Annual Average FSP Concentration at 1.5m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_FSPLT.mxd
Date: 11/11/2024

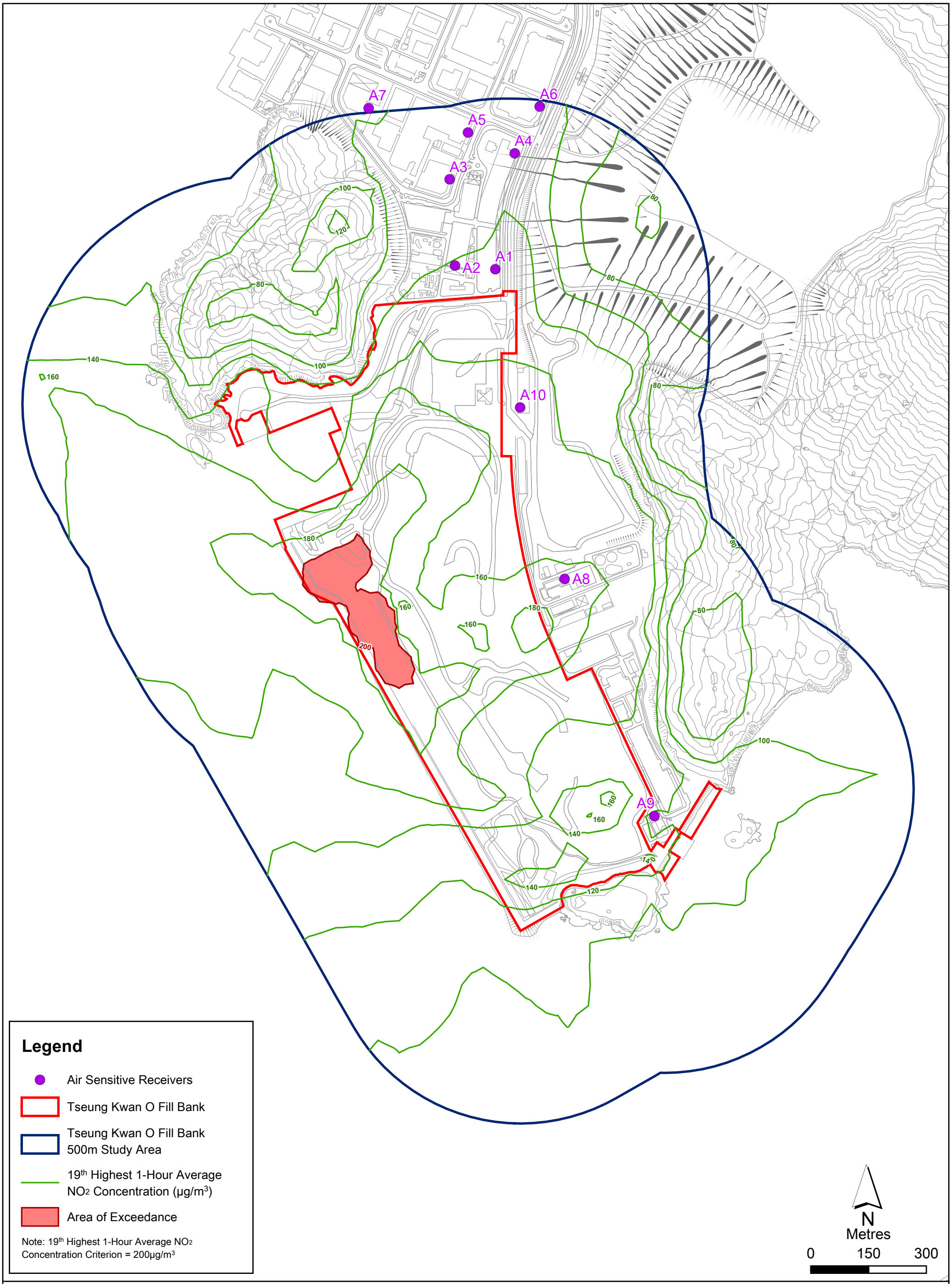


Figure 3.11

Contour of Cumulative 19th Highest 1-Hour Average NO_2 Concentration at 1.5m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_NO2ST.mxd
Date: 11/11/2024

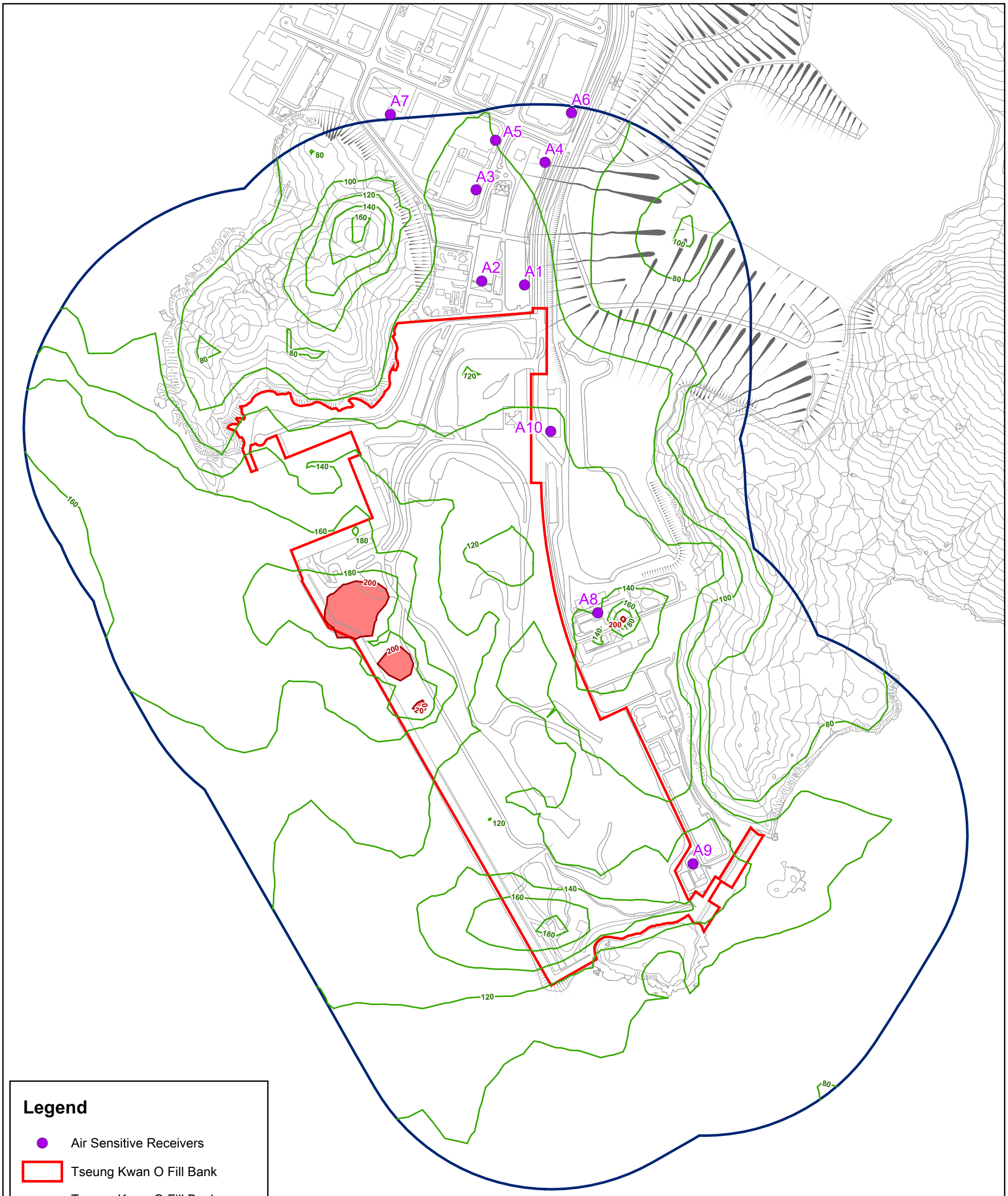


Figure 3.12

Contour of Cumulative 19th Highest 1-Hour Average NO_2 Concentration at 20m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_NO2ST_20.mxd
Date: 11/11/2024

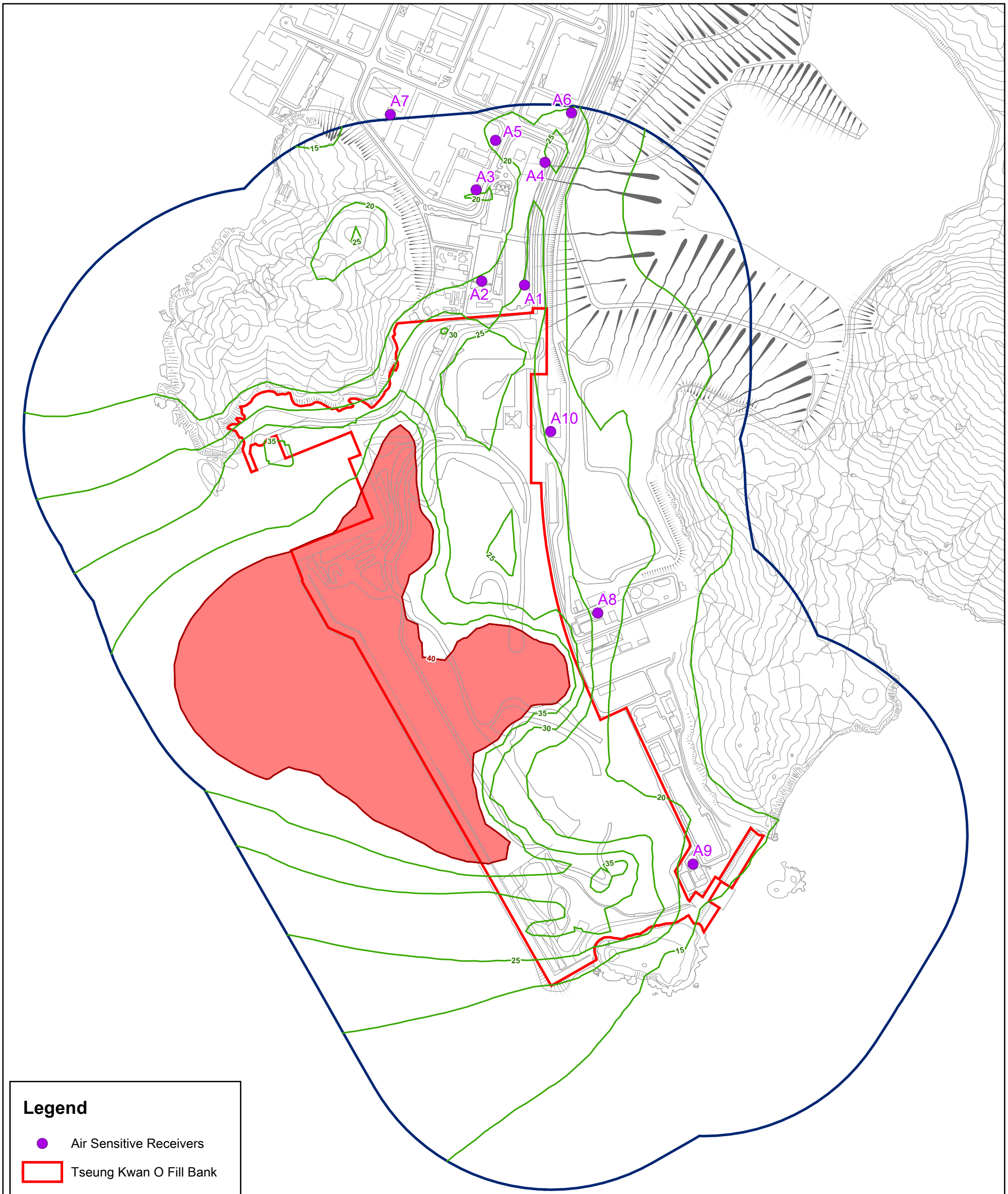


Figure 3.13

Contours of Cumulative Annual Average NO_2 Concentration at 1.5m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_NO2LT.mxd
Date: 11/11/2024

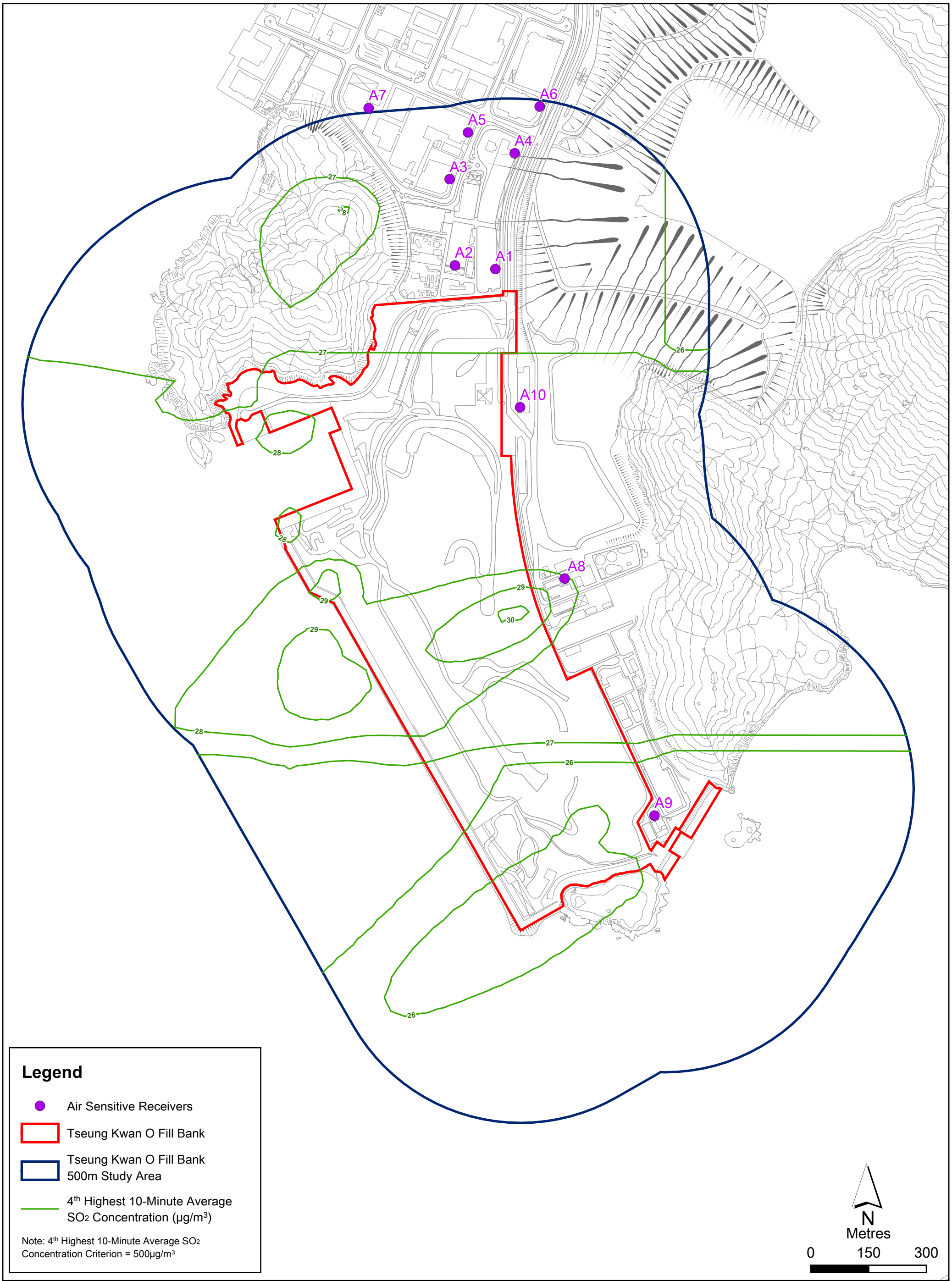


Figure 3.14

Contour of Cumulative 4th Highest 10-Minute Average SO_2 Concentration at 1.5m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_SO2ST.mxd
Date: 25/10/2024

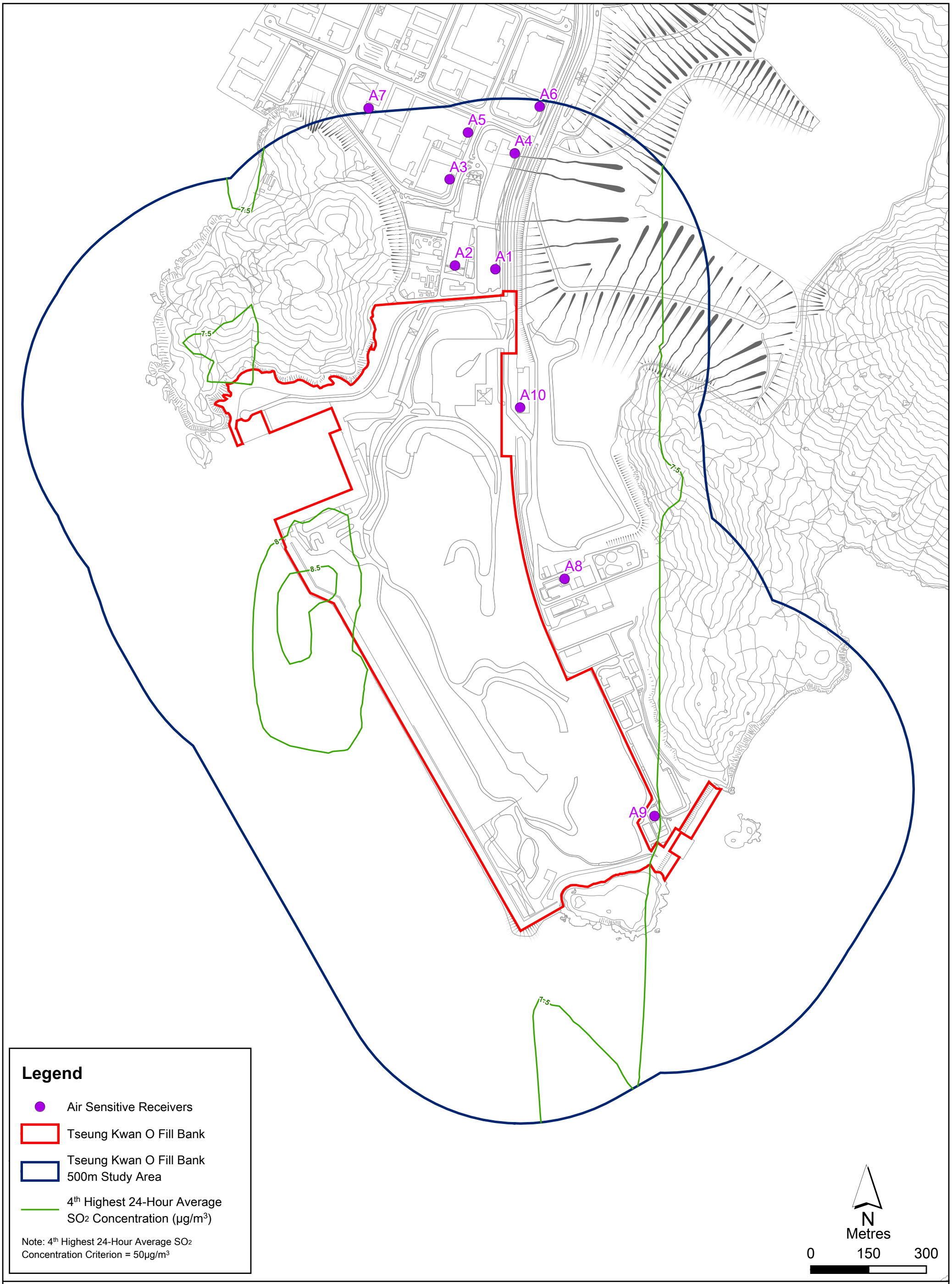


Figure 3.15

Contour of Cumulative 4th Highest 24-Hour Average SO_2 Concentration at 1.5m Above Ground

ERM

File: T:\GIS\CONTRACT\0733479\mxd\Contour\0733479_SO2LT.mxd
Date: 25/10/2024

Legend

- Tseung Kwan O Fill Bank
- Tseung Kwan O Fill Bank 300m Study Area

No.	Location
1	On Ning Garden
2	Nan Fung Plaza & Two Primary Schools
3	La Cite Noble
4	Yuk Ming Court
5	Oscar by the Sea
6	Creative Secondary School
7	Fire and Ambulance Services Academy
8	TKO Area 78 Hospital Development
9	The Beaumount
10	Lohas Park Phase 1 - The Capitol
11	Lohas Park Phase 2 - La Prestige
12	Lohas Park Phase 4a – Wings at Sea
13	TKO Area 86 School Development
14	Island Resort
15	TKO Area 85 Residential Development
16	Lohas Park Phase 3 - Hemera
17	Fire Services Department Pak Shing Kok Married Quarters
18	Shrewsbury International School Hong Kong
19	Lohas Park Phase 8 - Sea To Sky
20	Lohas Park Phase 9c - Ocean Marini
21	Lohas Park Phase 9b - Grand Marini
22	Lohas Park Phase 9a - Marini
23	Lohas Park Phase 10 - LP10
24	Lohas Park Phase 6

Metres
0 500 1,000

Figure 4.1

Locations of Representative Noise Sensitive Receivers

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_NSR.mxd
Date: 25/6/2024

Legend

Noise Sensitive Receiver

ONG1
On Ning Garden
(for traffic noise assessment)

SCH1
PLK Fung Ching Memorial Primary School
(for traffic noise assessment)

YMC1
Yuk Ming Court
(for traffic noise assessment)

NFP 1 & 2
Nan Fung Plaza
(for traffic noise assessment)

SCH2
Leung Sing Tak Primary School
(for traffic noise assessment)

LCN1
La Cite Noble
(for traffic noise assessment)

N
Metres
0 50 100

Figure 4.1a

Locations of Representative Noise Sensitive Receivers

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_NSR_1.mxd
Date: 25/6/2024

Legend

Noise Sensitive Receiver

OS1
Oscar by the Sea
(for traffic noise assessment)

CSS1
Creative Secondary School
(for traffic noise assessment)

N
Metres
0 40 80

Figure 4.1b

Locations of Representative Noise Sensitive Receivers

File: T:\GIS\CONTRACT\0733479\mxd\0733479_NSR_2.mxd
Date: 25/6/2024

Legend

Noise Sensitive Receiver

FSD1
Fire and Ambulance Services Academy
(for traffic noise assessment)

FSD2
Fire Services Department
Pak Shing Kok Married Quarters
(for traffic noise assessment)

WIP Mar 2024

N

Metres

0 50 100

Figure 4.1c

Locations of Representative Noise Sensitive Receivers

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_NSR_3.mxd
Date: 25/6/2024

Legend

Noise Sensitive Receiver

SIS1
Shrewsbury International School Hong Kong
(for Traffic Noise Assessment)

LP1
The Capitol Whistler
(for Traffic Noise Assessment)

LP5
Hemera
(for Traffic Noise Assessment)

TB1
The Beaumount
(for Traffic Noise Assessment)

TKO85-1
TKO Area 85 Residential Development
(for Traffic Noise Assessment)

TKO85-2
TKO Area 85 Residential Development
(for Traffic Noise Assessment)

LP3
La Splendeur Tower 9
(for Traffic Noise Assessment)

LP9
Sea to Sky
(for Traffic Noise Assessment)

LP11a-11d
Lohas Park Phase 6
(for Traffic Noise Assessment)

TKO86-1
TKO Area 86 School Development
(for Traffic Noise Assessment)

LP2
Le Prestige Moonlight
(for Traffic and Fixed Plant Noise Assessment)

LP10
LP10
(for Traffic Noise Assessment)

LP8
Marini
(for Traffic Noise Assessment)

LP6
Ocean Marini
(for Traffic Noise Assessment)

LP7
Grand Marini
(for Traffic Noise Assessment)

LP4
Wings at Sea
(for Traffic and Fixed Plant Noise Assessment)

N
Metres
0 95 190

Figure 4.1d

Locations of Representative Noise Sensitive Receivers

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_NSR_4.mxd
Date: 25/6/2024

Legend

- Noise Sensitive Receiver
- Tseung Kwan O Fill Bank

IR1
Island Resort
(for fixed plant noise assessment)

佛堂洲
FAT TONG CHAU

田下坳
TIN HA AU

小西灣
SIU SAI WAN

鐵篦洲
TIT CHAM CHAU

觀仔
KWUN TSAI

N
Metres
0 150 300

Figure 4.1e

Locations of Representative Noise Sensitive Receivers

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_NSR_5.mxd
Date: 25/6/2024

佛堂洲
FAT TONG CHAU

田下坳
TIN HA AU

觀仔
KWUN TSAI

鐵篦洲
IIT CHAM CHAU

R1a
R1b
R2a
R2b
R2c
R2d
R2e
R2f
R3
R4
R5
R6
R7
R8
R9a
R9b
R9c
R11
R11a
R12

B1
B2
B3
C&DMCF
NSE
NSD
NB4
NB5
TKOSF

N
Metres
0 150 300

Legend

- Construction & Demolition Material Sorting Facilities (Others)
- Other Barging Points for Exporting Materials
- TKOFB Barging Points for Exporting Materials
- TKOFB Construction & Demolition Material Crushing Facility
- TKO Sorting Facility
- Haul Roads with Truck Movement during All Periods
- Haul Roads with Truck Movement during Daytime and Evening Periods (0700 - 2300 hrs)
- Tseung Kwan O Fill Bank
- Tseung Kwan O Fill Bank 300m Study Area
- Stockpiling Areas

Figure 4.2

Locations of Key Noise Emission Sources Associated with the Operation of TKOFB

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Key_Noise_Emission_Sources.mxd
Date: 25/6/2024

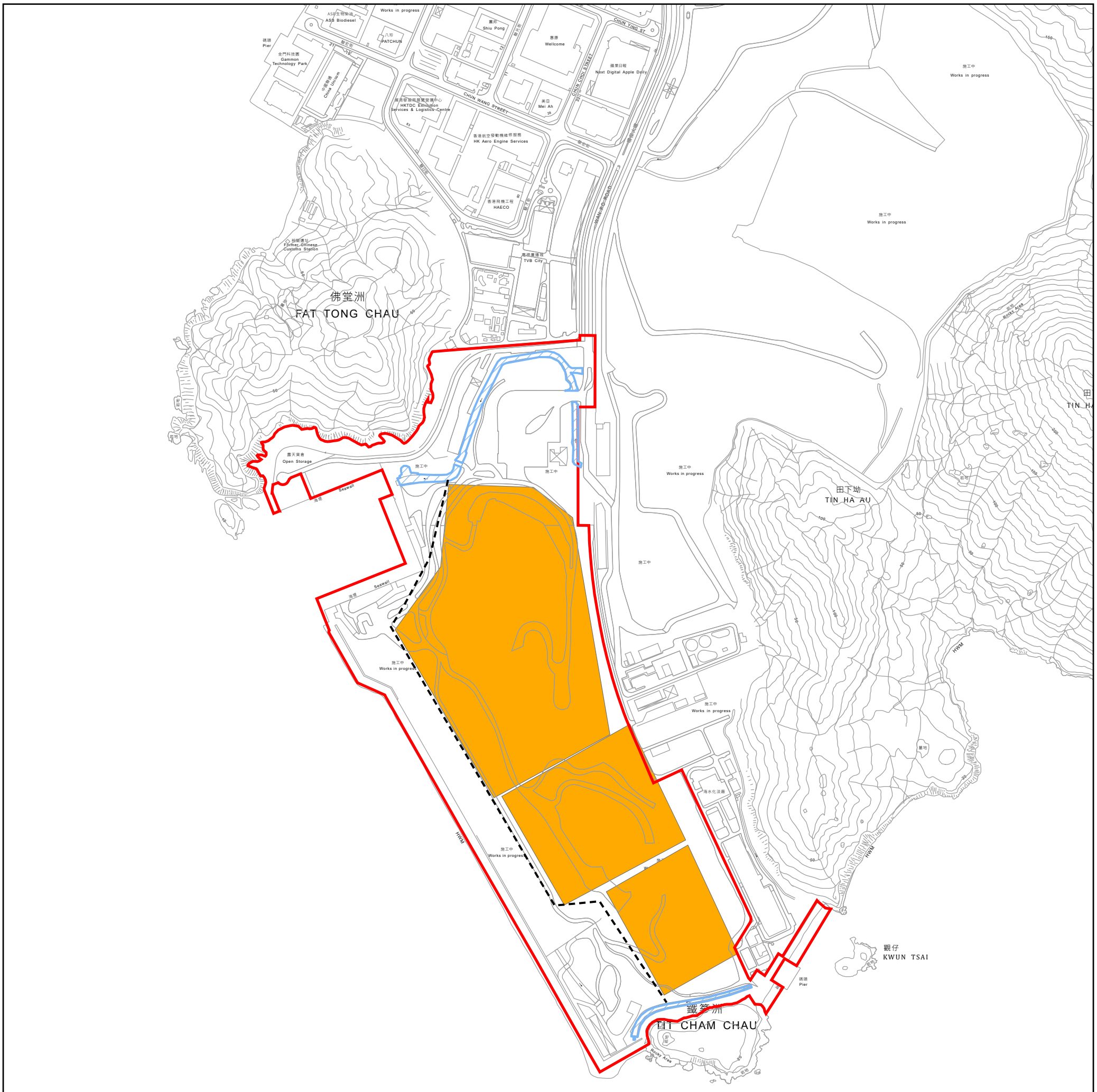


Figure 5.1a

Existing Drainage Arrangement of TKOFB

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Drainage_Channels_(Current).mxd
Date: 8/11/2024

佛堂洲
FAT TONG CHAU

田下坳
TIN HA AU

鐵篦洲
IT CHAM CHAU

觀仔
KWUN TSAI

Works in progress
施工中
Seawall
HWM
Rocky Area
Open Storage
Former Chinese Customs Station
TVB City
HK Aero Engine Services
HAECO
HKTDC Exhibition Services & Logistics Centre
Next Digital Apple Daily
Wellcome
Mei Ah
Shiu Pong
PATCHUN
ASB Biodiesel
Gammon Technology Park
China Unicom
Pier
CHUN WANG STREET
CHUN YING ST
CHUN CHIO STREET
HKMAC BC BOARD

Legend

- Tseung Kwan O Fill Bank
- Indicative Stockpiling Areas

Existing Mitigation Measures

- Existing Drainage Channel
- Temporary Intercepting Drain (Indicative)

Proposed Additional Mitigation Measures

- Proposed Additional Drainage Channel
- Gabion Wall (Indicative)
- Rock Bund (Indicative)
- Concrete Blocks (Indicative)

N

0 170 340
Metres

Figure 5.1b

Drainage Arrangement of TKOFB with Proposed Operation Changes
(Proposed Additional Mitigation Measures)

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_Drainage_Channels.mxd
Date: 25/11/2024

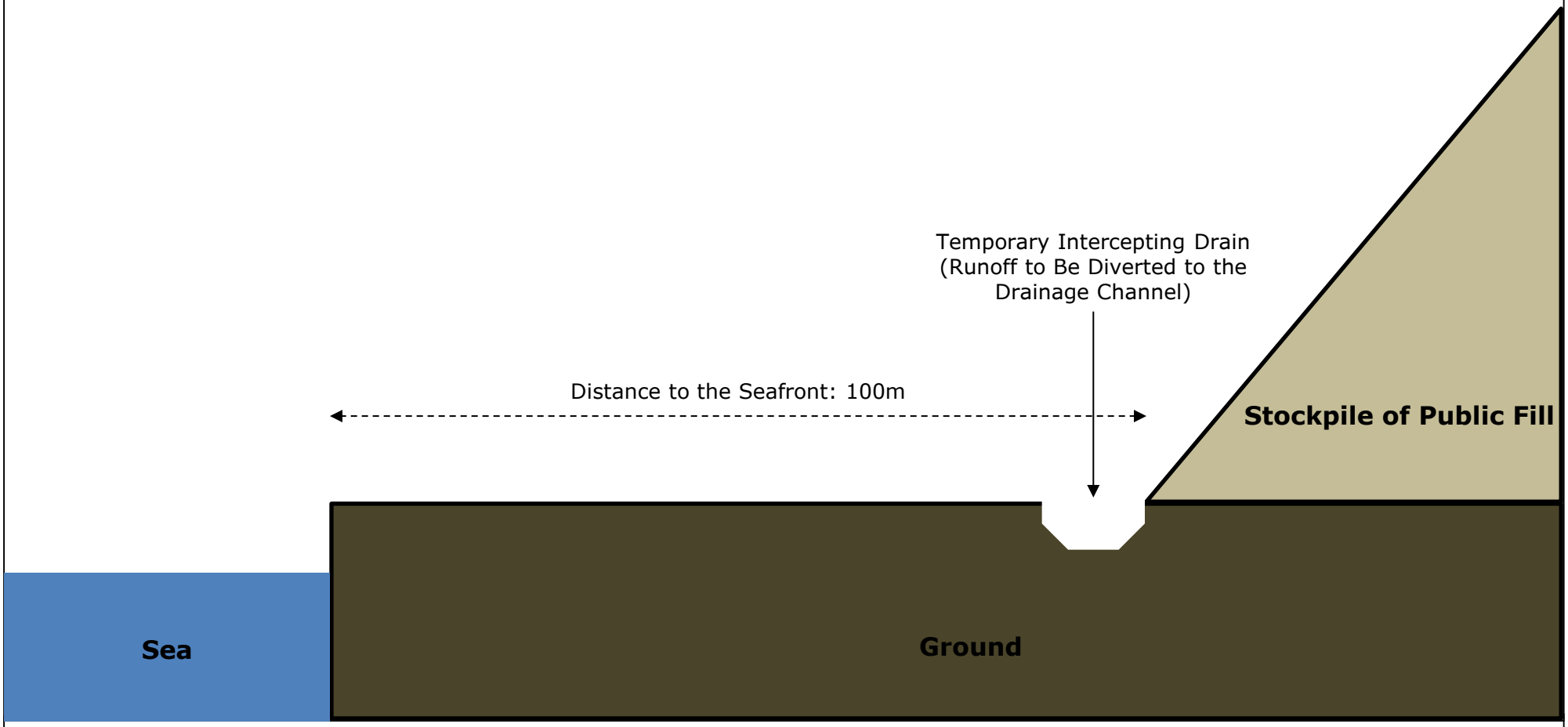


Figure 5.2a

Indicative Section View of the Drainage Arrangement at Seaward Side of Stockpiling Area of TKOFB

Date: 7/11/2024

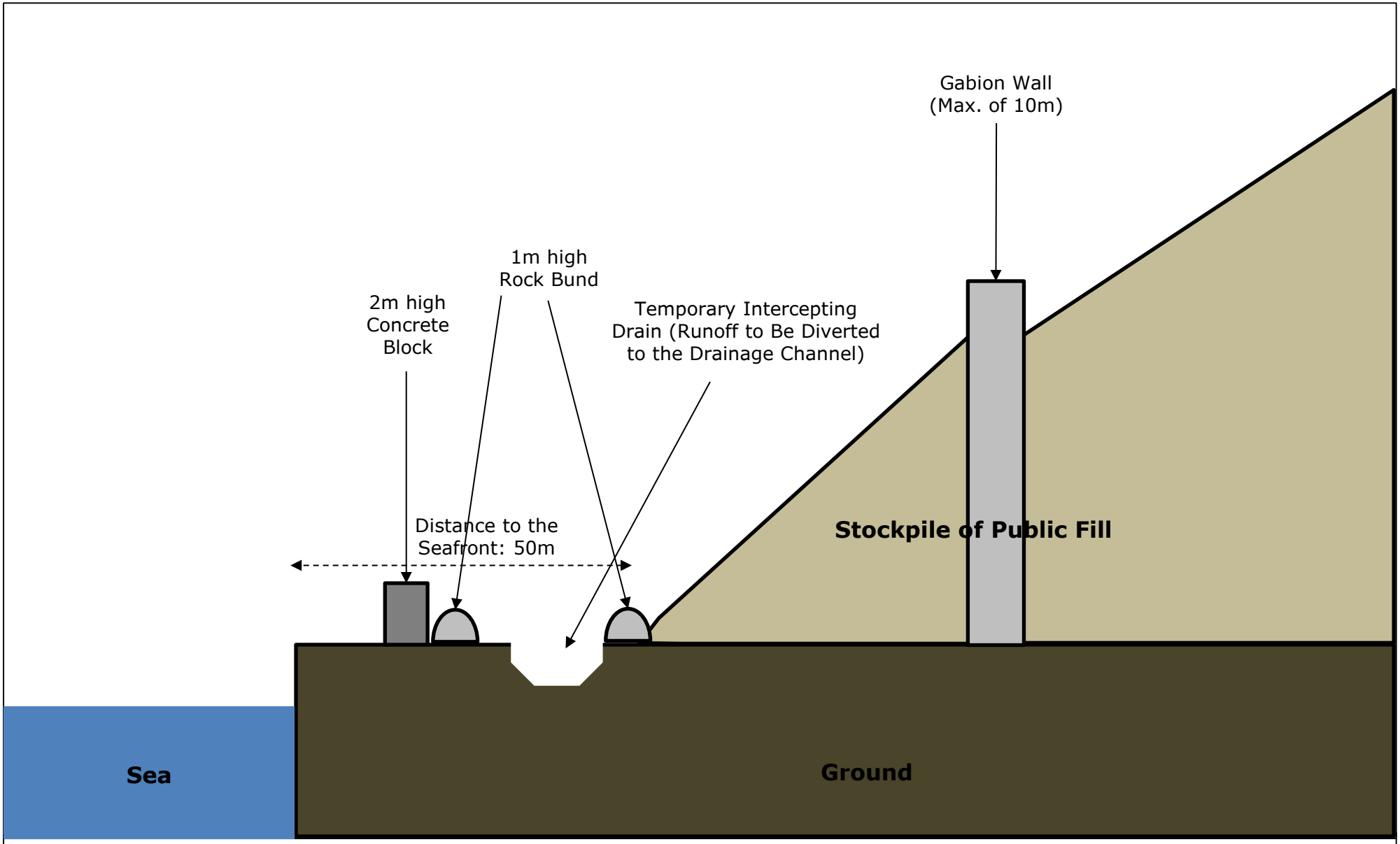


Figure 5.2b

Indicative Section View of the Drainage Arrangement at Seaward Side of Stockpiling Area of TKOFB with Proposed Operational Changes
(Proposed Additional Mitigation Measures)

Date: 7/11/2024

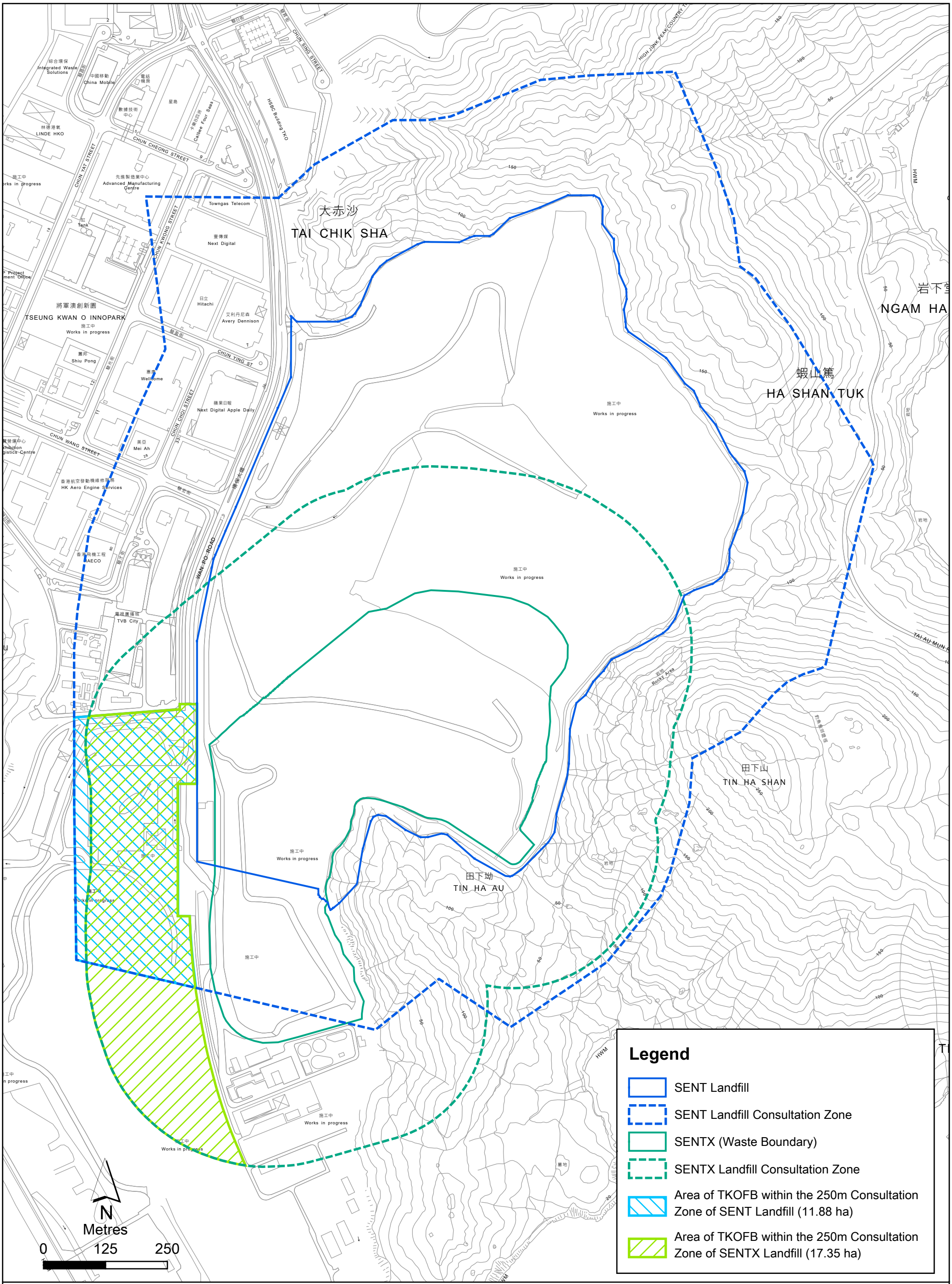


Figure 6.1

250m Consultation Zones of SENT Landfill and SENTX Landfill

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_250m_Consultation_Zone.mxd
Date: 25/6/2024

Figure 8.1

Location of Project Site in Area 137, Tseung Kwan O

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Date: 25/6/2024

Legend

- Tseung Kwan O Fill Bank
- Control Station C1a: Ebb Tide
- Monitoring Stations M4a and M5

C1a(845647E 814146N)
(Condition 3.2 Refers)

M4a(845922E 813973N)
(Condition 3.2 Refers)

M5(847005E 813678N)
(Condition 3.2 Refers)

Figure 8.2

Location of Water Control Station C1a and Water Monitoring Stations M4a and M5

ERM

File: T:\GIS\CONTRACT\0733479\mxd\0733479_WQMS.mxd
Date: 25/6/2024

APPENDIX A DETAILS OF THE IDENTIFIED REPRESENTATIVE AIR SENSITIVE RECEIVERS

Appendix A - Details of the Identified Representative Air Sensitive Receivers

ASR	ASR Description	Type of Use	X	Y	BasemPD	Approx. Max. Height	Assessment Height	PATH Grid	Approximate Distance from Project Boundary
			(HK1980)	(HK1980)	(mPD)	(mAG)	(mAG)	(II,JJ)	(m)
A1	TVB City	Commercial	846210.00	815485.00	5.3	30.0	1.5-30	50,29	60
A2	TVB City	Commercial	846105.00	815495.00	5.3	30.0	1.5-30	50,29	90
A3	HAESL	Industrial	846091.00	815718.00	5.3	30.0	1.5-30	50,29	310
A4	TVB City	Commercial	846260.00	815786.00	6.1	30.0	1.5-30	50,29	360
A5	HAESL Component Overhaul Building	Industrial	846139.00	815840.00	5.8	30.0	1.5-30	50,29	420
A6	Digital Savvis Investment	Commercial	846325.00	815907.00	9.5	30.0	1.5-30	50,29	485
A7	Trade Development Council	Commercial	845881.00	815903.00	7.7	20.0	1.5-20	50,29	510
A8	Office Building of SENT Landfill Extension	Industrial	846390.00	814682.00	5.0	4.5	1.5-4.5	50,28	90
A9	Office Building of Desalination Plant	Industrial	846623.00	814066.00	5.0	35.0	1.5-40	50,27	30
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	Industrial	846274.00	815126.00	5.9	1.5	1.5	50,28	50

APPENDIX B RSP AND FSP EMISSION RATE CALCULATIONS FOR DUST EMISSION SOURCES ASSOCIATED WITH TKOFB OPERATION

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
1	Stockpiling Areas A001,A003; Open Areas A002,A004	Wind Erosion		% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	0.40	Mg/ha/yr	1.275E-06	1.058E-07	$g/m^2/s$	Calculated based on the wind erosion emission factor of TSP (0.85Mg/ha/yr) in AP-42, Section 11.9 (Edition 10/98), Table 11.9-4, with the RSP fraction based on AP-42, Section 13.2.4 (Edition 11/06).
			FSP	Emission Factor	0.06	Mg/ha/yr	1.930E-07	1.602E-08	$g/m^2/s$	Calculated based on the wind erosion emission factor of TSP (0.85Mg/ha/yr) in AP-42, Section 11.9 (Edition 10/98), Table 11.9-4, with the FSP fraction based on AP-42, Section 13.2.4 (Edition 11/06).
2	Stockpiling Area A003	Material Handling at SP3a		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	87	truck/hour (c)				Provided by CEDD. Temporary fill loading location to stockpiling area A003.
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	3.565E-02	3.565E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	5.398E-03	5.398E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
		Material Handling at SP3b (daytime)		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	704	truck/day				Provided by CEDD Material movement from stockpiling area A003 to C&DMCF.
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	1.803E-02	1.803E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	2.730E-03	2.730E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
		Material Handling at SP3b (nighttime)		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	424	truck/night				Provided by CEDD Material movement from stockpiling area A003 to TKO basin barging points.
				Working Hours	8	hours				23:00 to 07:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	2.172E-02	2.172E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	3.288E-03	3.288E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
		Material Handling at SP3c (daytime)		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	1568	truck/day				Provided by CEDD Material movement from stockpiling area A003 to TKO basin barging points.
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	4.015E-02	4.015E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	6.080E-03	6.080E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
		Material Handling at SP3c (nighttime)		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	424	truck/night				Provided by CEDD Material movement from stockpiling area A003 to TKO basin barging points.
				Working Hours	8	hours				23:00 to 07:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	2.172E-02	2.172E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	3.288E-03	3.288E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
3	Open Area A002	Material Handling at SP3f (loading)		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	188	truck/hour[(c)]				Provided by CEDD Material movement from entrance to temporary fill loading location by external trucks, and TKOSF to stockpiling
				Working Hours	13	hours				08:00 to 21:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	7.703E-02	7.703E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	1.166E-02	1.166E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
		Material Handling at SP3g (unloading)		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	86	truck/hour [(c)]				Provided by CEDD Material movement from temporary fill loading location to stockpiling area A003, and TKOSF to stockpiling area
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	3.524E-02	3.524E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	5.336E-03	5.336E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
4	Stockpiling Area A001	Material Handling at SP3d		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	704	truck/day				Provided by CEDD - Material movement from stockpiling area A001 to TKO basin barging points - Material movement from C&DMCF to stockpiling area A001
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	1.803E-02	1.803E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	2.730E-03	2.730E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
5	Near Road R1b	Material Handling at SP3h (loading)		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	210	truck/day				Provided by CEDD Material movement from entrance temporary stockpiling area near road R1b.
				Working Hours	14	hours				08:00 to 22:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
			RSP	Emission Factor	1.031E-04	kg/Mg	6.146E-03	6.146E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	9.307E-04	9.307E-05	g/s	AP-42, Section 13.2.4 (Edition 11/06)
		Material Handling at SP3i (unloading)		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	266	truck/day				Provided by CEDD Material movement from temporary stockpiling area near R1b to external landfills and TKOSF
				Working Hours	14	hours				08:00 to 22:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	7.785E-03	7.785E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	1.179E-03	1.179E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
6	C&DMCF	Material handling, crushing and screening		Handling Capacity (crushing)	20000	tonnes/day				Provided by CEDD - 4 jaw crushers with max. production of 2500 tonnes/day - 1 cone crusher with max. production of 5000 tonnes/day - 1 impact crusher with max. production of 5000 tonnes/day
				Handling Capacity (screening)	9600	tonnes/day				Provided by CEDD - 1 screening machine with max. capacity of 9600 tonnes/day
				Handling Capacity (handling, at intake)	10000	tonnes/day				Provided by CEDD
				Handling Capacity (handling, at output)	10000	tonnes/day				Provided by CEDD
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression (crushing)	0	%				
				% of dust suppression (screening)	0	%				
				% of dust suppression (handling)	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor (crushing)	2.700E-04	kg/Mg	9.375E-02	9.375E-02	g/s	AP-42, Table 11.19.2-1, Tertiary Crushing (controlled)
				Emission Factor (screening)	3.700E-04	kg/Mg	6.167E-02	6.167E-02	g/s	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling, at intake)	1.031E-04	kg/Mg	1.791E-02	1.791E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (handling, at output)	1.031E-04	kg/Mg	1.791E-02	1.791E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor (crushing)	5.000E-05	kg/Mg	1.736E-02	1.736E-02	g/s	AP-42, Table 11.19.2-1, Tertiary Crushing (controlled)
				Emission Factor (screening)	2.500E-05	kg/Mg	4.167E-03	4.167E-03	g/s	AP-42, Table 11.19.2-1, Screening (controlled)
				Emission Factor (handling, at intake)	1.562E-05	kg/Mg	2.712E-03	2.712E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (handling, at output)	1.562E-05	kg/Mg	2.712E-03	2.712E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
7	TKOSF (Open Area A004)	Material handling and screening		Truck Capacity	14.3	tonnes/truck				Provided by CEDD
				Truck Quantity	20	truck/day				Provided by CEDD
				Working Hours	24	hours				Provided by CEDD
				% of dust suppression (handling)	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
				% of dust suppression (screening)	0	%				
			RSP	Emission Factor (handling)	1.031E-04	kg/Mg	3.414E-04	3.414E-05	g/s	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	3.700E-04	kg/Mg	1.225E-03	1.225E-03	g/s	AP-42, Table 11.19.2-1, Screening (controlled)
			FSP	Emission Factor (handling)	1.562E-05	kg/Mg	5.170E-05	5.170E-06	g/s	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	2.500E-05	kg/Mg	8.275E-05	8.275E-05	g/s	AP-42, Table 11.19.2-1, Screening (controlled)
8	Barging points for importing materials	Material handling at IB1, IB2, IB3, IB4		Handling rate (per location)	2500	tonnes/day				Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
				Working Hours	24	hours				Provided by CEDD
			RSP	Emission Factor	1.031E-04	kg/Mg	2.985E-03	2.985E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	4.519E-04	4.519E-05	g/s	AP-42, Section 13.2.4 (Edition 11/06)
9	Barging points for exporting materials	Material handling at B1, B2, B3 (daytime)		Handling rate (per location)	8170	tonnes/day				Provided by CEDD
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	1.463E-02	1.463E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	2.215E-03	2.215E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
		Material handling at B1, B2, B3 (nighttime)		Handling rate (per location)	4004	tonnes/night				Provided by CEDD
				Working Hours (nighttime)	8	hours				23:00 to 07:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	1.434E-02	1.434E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	2.172E-03	2.172E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
10	Other barging points	Material handling at NB4 to NB5 (daytime)		Handling rate (per location)	9664	tonnes/day				Provided by CEDD
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	1.731E-02	1.731E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	2.621E-03	2.621E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
		Material handling at NB4 to NB5 (nighttime)		Handling rate (per location)	4832	tonnes/night				Provided by CEDD
				Working Hours	8	hours				23:00 to 07:00. Provided by CEDD
				% of dust suppression	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
			RSP	Emission Factor	1.031E-04	kg/Mg	1.731E-02	1.731E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.562E-05	kg/Mg	2.621E-03	2.621E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
11	Other C&DMSFs	Material handling and screening at NSD to NSE (daytime)		Handling rate (per location)	9664	tonnes/day				Provided by CEDD
				Working Hours	16	hours				07:00 to 23:00. Provided by CEDD
				% of dust suppression (handling)	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
				% of dust suppression (screening)	0	%				
			RSP	Emission Factor (handling)	1.031E-04	kg/Mg	1.731E-02	1.731E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	3.700E-04	kg/Mg	6.208E-02	6.208E-02	g/s	AP-42, Table 11.19.2-1, Screening (controlled)
			FSP	Emission Factor (handling)	1.562E-05	kg/Mg	2.621E-03	2.621E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	2.500E-05	kg/Mg	4.194E-03	4.194E-03	g/s	AP-42, Table 11.19.2-1, Screening (controlled)
		Material handling and screening at NSD to NSE (nighttime)		Handling rate (per location)	4832	tonnes/day				Provided by CEDD
				Working Hours	8	hours				23:00 to 07:00. Provided by CEDD
				% of dust suppression (handling)	90	%				AP-42, Section 11.19.1.2; Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-
				% of dust suppression (screening)	0	%				
			RSP	Emission Factor (handling)	1.031E-04	kg/Mg	1.731E-02	1.731E-03	g/s	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	3.700E-04	kg/Mg	6.208E-02	6.208E-02	g/s	AP-42, Table 11.19.2-1, Screening (controlled)
			FSP	Emission Factor (handling)	1.562E-05	kg/Mg	2.621E-03	2.621E-04	g/s	AP-42, Section 13.2.4 (Edition 11/06)
				Emission Factor (screening)	2.500E-05	kg/Mg	4.194E-03	4.194E-03	g/s	AP-42, Table 11.19.2-1, Screening (controlled)
12	Truck movement on haul road	R1a		Truck Quantity	65	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	13.5	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	6.657E-04	5.525E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	1.611E-04	1.337E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
		R1b		Truck Quantity	68	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	13.5	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	6.964E-04	5.780E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	1.685E-04	1.398E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R2a		Truck Quantity	375	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	12	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.841E-03	3.188E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.292E-04	7.712E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R2b		Truck Quantity	375	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	12	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.841E-03	3.188E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.292E-04	7.712E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R2c		Truck Quantity	375	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	12	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.841E-03	3.188E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.292E-04	7.712E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R2d		Truck Quantity	375	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	12	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.841E-03	3.188E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.292E-04	7.712E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R2e		Truck Quantity	375	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	12	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
			RSP	Emission Factor	36.8696	g/vkt	3.841E-03	3.188E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.292E-04	7.712E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R2f		Truck Quantity	375	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	12	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.841E-03	3.188E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.292E-04	7.712E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R3		Truck Quantity	375	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	12	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.841E-03	3.188E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.292E-04	7.712E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R4		Truck Quantity	375	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	12	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.841E-03	3.188E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.292E-04	7.712E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R5		Truck Quantity	172	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	16	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	1.762E-03	1.462E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	4.262E-04	3.537E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R6		Truck Quantity	197	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
				Working Hours	24	hours				Provided by CEDD
			RSP	Emission Factor	36.8696	g/vkt	2.018E-03	1.675E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	4.881E-04	4.051E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
		R7		Truck Quantity	217	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	24	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	2.222E-03	1.845E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	5.377E-04	4.463E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R8		Truck Quantity	217	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	24	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	2.222E-03	1.845E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	5.377E-04	4.463E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R9a		Truck Quantity	364	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	24	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.728E-03	3.094E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.019E-04	7.486E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R9b		Truck Quantity	346	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	24	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.544E-03	2.941E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	8.573E-04	7.116E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R9c		Truck Quantity	5	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	13.5	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	5.121E-05	4.250E-06	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	1.239E-05	1.028E-06	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R11		Truck Quantity	261	truck/hour [(c)]				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	24	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Calculation for Dust Emission Sources associated with TKOFB Operation

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate			Reference
							Unmitigated	Mitigated	Unit	
			RSP	Emission Factor	36.8696	g/vkt	2.673E-03	2.219E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	6.467E-04	5.368E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R11a		Truck Quantity	366	truck/hour (c)				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	24	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	3.748E-03	3.111E-04	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	9.069E-04	7.527E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
		R12		Truck Quantity	105	truck/hour (c)				Provided by CEDD, maximum hourly flow during operation hours
				Working Hours	16	hours				Provided by CEDD
				% of dust suppression	91.7	%				USEPA, Control of Open Fugitive Dust Sources (EPA-450/3-98-008) Please refer to Note (a) for the calculation of dust suppression efficiency.
			RSP	Emission Factor	36.8696	g/vkt	1.075E-03	8.926E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9201	g/vkt	2.602E-04	2.159E-05	g/m/s	AP42 Section 13.2.1 (Edition 1/11)

Notes:

(a) Watering once every hour during Working Hours. It is assumed that 91.7% dust suppression efficiency can be achieved by watering frequency of once every hour with reference to USEPA's Control of Open Fugitive Dust Sources (EPA-450/3-98-008).

C = 100 - 0.8pdt / i

= 100 - 0.8 x 0.2323 x 280 x 1 / 6.3 = 91.7%

where:

C = percentage of efficiency, %

p = potential average hourly daytime evaporation rate, mm/hr = 0.0049 x 47.41 inches = 0.2323

Evaporation recorded at King's Park between 1991 to 2020 is 1204.1mm (47.41 inches). (https://www.hko.gov.hk/en/cis/normal/1991_2020/normals.htm)

d = average hourly daytime traffic rate, in vehicles per hour = 280

t = time between application of watering, hr = 1 (i.e. once every hour)

i = application intensity, L/m^2 = 6.3

(b) According to AP-42, Section 11.19.1.2 (Emission and Controls), the spray systems on material handling operations have been estimated to reduce emissions 70% to 95%. With reference to "Gregory E. Muleski, Chatten Cowherd Jr. & John S. Kinsey (2005): Particulate Emissions from Construction Activities, Journal of the Air & Waste Management Association, 55:6, 772-783", the published control efficiency of particulate emissions by applying water can reach over 90%. A dust suppression efficiency of 90% for material handling sources has been adopted in this assessment.

(c) Maximum hourly truck flow within the specified Working Hours for emission sources SP3a, SP3f, SP3g, and R1-R12.

(d) References made from AP-42 USEPA are extracted as below.

AP-42, Section 13.2.4 (Edition 11/06)

Emission factor = k(0.0016)(U/2.2)^1.3/(M/2)^1.4

Aerodynamic Particle Size Multiplier (k)				
< 30 µm	< 15 µm	< 10 µm	< 5 µm	< 2.5 µm
0.74	0.48	0.35	0.2	0.053

U =	3.61	m/s	Note (a)
M =	10.6	%	Note (b)

(a) Wind data from PATH-v3.0 (Grid 50,28) is adopted, considering majority of the TKOFB area falls within Grid 50,28.

(b) Measured averaged moisture content from 2013 TKOFB ERR

AP42 Section 13.2.1 (Edition 1/11)

Emission factor for paved road:

E (g/vkt) = k ((sL)^0.91)*((W)^1.02)

Aerodynamic Particle Size Multiplier (k) - g/vkt			
< 30 µm	< 15 µm	< 10 µm	< 2.5 µm
3.23	0.77	0.62	0.15

sL =	2.4	g/m2	Note (c)
W (avg.) =	25.1	US ton	Note (d)
W (loaded) =	33.0	US ton	Note (d)
W (unloaded)	8.6	US ton	Note (d)

(c) Surface silt loading for quarry with reference to 2013 TKOFB ERR

(d) Mean vehicle weight. Loaded truck is 30MT; Unloaded truck is 15.7MT.

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Emission Inventory (RSP and FSP) for Dust Emission Sources associated with TKOFB Operation

Model ID	Description	Source Type	Coordinates		Dimension		Base Elevation	Release Height	Angle/Width	AERMOD Input Hour [(d)]	Emission Rate			
											RSP		FSP	
			X1	Y1	X2	Y2					Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours
		(Type)	(HK1980)	(HK1980)	(HK1980)	(HK1980)	(mPD)	(mAG)	(degree/m)	(input hour)	(g/m²/s)	(g/m²/s)	(g/m²/s)	(g/m²/s)
A001	Wind Erosion	POLYAREA	845991.33	814361.14			5.00	30.00	-	08:00-23:00	1.058E-07	1.275E-06	1.602E-08	1.930E-07
			846316.50	814538.74										
			846473.62	814216.45										
			846168.79	814056.43										
A002	Wind Erosion	POLYAREA	846280.66	814111.94			5.00	0.50	-	08:00-23:00	1.058E-07	1.275E-06	1.602E-08	1.930E-07
			846473.74	814215.04										
			846573.09	814011.87										
			846393.13	813919.00										
A003	Wind Erosion	POLYAREA	845934.70	815092.39			5.00	30.00	-	08:00-23:00	1.058E-07	1.275E-06	1.602E-08	1.930E-07
			846125.31	815085.79										
			846213.76	815017.68										
			846316.50	814538.74										
			845991.33	814361.14										
			845781.83	814720.87										
			845916.45	814906.45										
A004	Wind Erosion	POLYAREA	846168.88	814020.73			5.00	0.50	-	08:00-23:00	1.058E-07	1.275E-06	1.602E-08	1.930E-07
			846278.95	814080.00										
			846379.49	813891.61										
			846276.83	813836.58										
SP3a	Material Handling	AREA	846126.55	814646.21	10.0	10.0	5.00	30.00	0	07:00-23:00	3.565E-05	-	5.398E-06	-
SP3b	Material Handling	AREA	846095.86	814596.46	10.0	10.0	5.00	30.00	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	1.803E-05	2.172E-05	2.730E-06	3.288E-06
SP3c	Material Handling	AREA	846012.25	814840.94	10.0	10.0	5.00	15.00	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	4.015E-05	2.172E-05	6.080E-06	3.288E-06
SP3d	Material Handling	AREA	846314.93	814383.74	10.0	10.0	5.00	30.00	0	07:00-23:00	1.803E-05	-	2.730E-06	-
SP3f	Material Handling	AREA	846397.28	814097.98	10.0	10.0	5.00	5.00	0	08:00-21:00	7.703E-05	-	1.166E-05	-
SP3g	Material Handling	AREA	846397.28	814097.98	10.0	10.0	5.00	0.50	0	07:00-23:00	3.524E-05	-	5.336E-06	-
SP3h	Material Handling	AREA	845928.46	815188.79	10.0	10.0	5.00	0.50	0	08:00-22:00	6.146E-06	-	9.307E-07	-
SP3i	Material Handling	AREA	845928.46	815188.79	10.0	10.0	5.00	0.50	0	08:00-22:00	7.785E-06	-	1.179E-06	-
C&DMCF_C	Material Crushing	AREA	845815.00	814677.00	10.0	10.0	5.00	5.00	0	07:00-23:00	9.375E-04	-	1.736E-04	-
C&DMCF_S	Material Sorting	AREA	845815.00	814677.00	10.0	10.0	5.00	5.00	0	07:00-23:00	6.167E-04	-	4.167E-05	-
C&DMCF_H1	Material Handling	AREA	845815.00	814677.00	10.0	10.0	5.00	5.00	0	07:00-23:00	1.791E-05	-	2.712E-06	-
C&DMCF_H2	Material Handling	AREA	845815.00	814677.00	10.0	10.0	5.00	0.50	0	07:00-23:00	1.791E-05	-	2.712E-06	-
TKOSF_S	Material Sorting	AREA	846339.19	813930.62	10.0	10.0	5.00	5.00	0	24-hour	3.414E-07	3.414E-07	5.170E-08	5.170E-08
TKOSF_H	Material Handling	AREA	846339.19	813930.62	10.0	10.0	5.00	0.50	0	24-hour	1.225E-05	1.225E-05	8.275E-07	8.275E-07
IB1	Material Handling	AREA	845796.45	815097.25	10.0	10.0	5.00	0.50	0	24-hour	2.985E-06	2.985E-06	4.519E-07	4.519E-07
IB2	Material Handling	AREA	845763.35	814852.78	10.0	10.0	5.00	0.50	0	24-hour	2.985E-06	2.985E-06	4.519E-07	4.519E-07
IB3	Material Handling	AREA	845665.24	815077.23	10.0	10.0	5.00	0.50	0	24-hour	2.985E-06	2.985E-06	4.519E-07	4.519E-07
IB4	Material Handling	AREA	845741.75	815107.96	10.0	10.0	5.00	0.50	0	24-hour	2.985E-06	2.985E-06	4.519E-07	4.519E-07
B1	Material Handling	AREA	845685.40	814821.54	10.0	10.0	5.00	0.50	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	1.463E-05	1.434E-05	2.215E-06	2.172E-06
B2	Material Handling	AREA	845809.21	814871.16	10.0	10.0	5.00	0.50	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	1.463E-05	1.434E-05	2.215E-06	2.172E-06
B3	Material Handling	AREA	845839.41	814990.24	10.0	10.0	5.00	0.50	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	1.463E-05	1.434E-05	2.215E-06	2.172E-06
NB4	Material Handling	AREA	845894.03	814425.05	10.0	10.0	5.00	0.50	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	1.731E-05	1.731E-05	2.621E-06	2.621E-06
NB5	Material Handling	AREA	845830.42	814542.93	10.0	10.0	5.00	0.50	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	1.731E-05	1.731E-05	2.621E-06	2.621E-06
NSD_S	Material Screening	AREA	845952.50	814469.84	10.0	10.0	5.00	5.00	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	1.731E-05	1.731E-05	2.621E-06	2.621E-06
NSD_H	Material Handling	AREA	845952.50	814469.84	10.0	10.0	5.00	0.50	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	6.208E-04	6.208E-04	4.194E-05	4.194E-05

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Emission Inventory (RSP and FSP) for Dust Emission Sources associated with TKOFB Operation

Model ID	Description	Source Type	Coordinates		Dimension		Base Elevation	Release Height	Angle/Width	AERMOD Input Hour [(d)]	Emission Rate			
											RSP		FSP	
			X1	Y1	X2	Y2					Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours
		(Type)	(HK1980)	(HK1980)	(HK1980)	(HK1980)	(mPD)	(mAG)	(degree/m)	(input hour)	(g/m²/s)	(g/m²/s)	(g/m²/s)	(g/m²/s)
NSE_S	Material Screening	AREA	845899.12	814565.34	10.0	10.0	5.00	5.00	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	1.731E-05	1.731E-05	2.621E-06	2.621E-06
NSE_H	Material Handling	AREA	845899.12	814565.34	10.0	10.0	5.00	0.50	0	07:00-23:00 (daytime), 23:00-07:00 (nighttime)	6.208E-04	6.208E-04	4.194E-05	4.194E-05
R1a	Road Dust	LINE	846034.95	815392.84	846249.74	815413.44	5.00	0.50	8.00	08:00 - 22:00	6.907E-06	-	1.671E-06	-
R1b	Road Dust	LINE	845944.10	815168.54	846034.95	815392.84	5.00	0.50	8.00	08:00 - 22:00	7.225E-06	-	1.748E-06	-
R2a	Road Dust	LINE	846249.74	815413.44	846237.19	815252.04	5.40	0.50	8.00	08:00 - 20:00	3.985E-05	-	9.640E-06	-
R2b	Road Dust	LINE	846237.19	815252.04	846243.02	815115.27	5.65	0.50	8.00	08:00 - 20:00	3.985E-05	-	9.640E-06	-
R2c	Road Dust	LINE	846243.02	815115.27	846262.59	814875.48	5.55	0.50	8.00	08:00 - 20:00	3.985E-05	-	9.640E-06	-
R2d	Road Dust	LINE	846262.59	814875.48	846305.21	814658.54	5.00	0.50	8.00	08:00 - 20:00	3.985E-05	-	9.640E-06	-
R2e	Road Dust	LINE	846305.21	814658.54	846395.81	814423.08	5.00	0.50	8.00	08:00 - 20:00	3.985E-05	-	9.640E-06	-
R2f	Road Dust	LINE	846395.81	814423.08	846547.27	814006.76	5.00	0.50	8.00	08:00 - 20:00	3.985E-05	-	9.640E-06	-
R3	Road Dust	LINE	846342.29	814059.88	846547.27	814006.76	5.00	0.50	8.00	08:00 - 20:00	3.985E-05	-	9.640E-06	-
R4	Road Dust	LINE	846437.86	814081.69	846342.29	814059.88	5.00	2.50	8.00	08:00 - 20:00	3.985E-05	-	9.640E-06	-
R5	Road Dust	LINE	846127.04	814128.11	846342.29	814059.88	5.00	0.50	8.00	07:00 - 23:00	1.828E-05	-	4.422E-06	-
R6	Road Dust	LINE	845916.45	814906.45	846012.25	814840.94	5.00	20.00	8.00	24-hour	2.093E-05	refer to note (c)	5.064E-06	refer to note (c)
R7	Road Dust	LINE	845916.45	814906.45	845944.10	815168.54	5.00	0.50	8.00	24-hour	2.306E-05	refer to note (c)	5.578E-06	refer to note (c)
R8	Road Dust	LINE	845781.83	814720.87	845916.45	814906.45	5.00	0.50	8.00	24-hour	2.306E-05	refer to note (c)	5.578E-06	refer to note (c)
R9a	Road Dust	LINE	845781.83	814720.87	845991.33	814361.14	5.00	0.50	8.00	24-hour	3.868E-05	refer to note (c)	9.357E-06	refer to note (c)
R9b	Road Dust	LINE	845991.33	814361.14	846127.04	814128.11	5.00	0.50	8.00	24-hour	3.676E-05	refer to note (c)	8.895E-06	refer to note (c)
R9c	Road Dust	LINE	846127.04	814128.11	846184.90	814029.36	5.00	0.50	8.00	08:00 - 22:00	5.313E-07	-	1.285E-07	-
R11	Road Dust	LINE	846316.50	814538.74	846126.55	814646.21	5.00	30.00	8.00	24-hour	2.773E-05	refer to note (c)	6.710E-06	refer to note (c)
R11a	Road Dust	LINE	845991.33	814361.14	846316.50	814538.74	5.00	15.00	8.00	24-hour	3.889E-05	refer to note (c)	9.409E-06	refer to note (c)
R12	Road Dust	LINE	846316.50	814538.74	846314.93	814383.74	5.00	30.00	8.00	07:00 - 23:00	1.116E-05	-	2.699E-06	-

Notes:

(a) Dry deposition was considered for fugitive dust sources (i.e. wind erosion, material handling/screening/crushing and haul roads) based on the particle size distributions of the respective dust sources.

(b) The maximum height of stockpiling is 65.2mPD (60.2mAG) in accordance with the existing EP of TKOFB. As advised by CEDD, the average stockpiling heights at stockpiling areas A001 and A003 are 35mPD (30mAG). The average height of the stockpiling areas A001 and A003 was adopted in the model as a conservative approach, given that the identified ASRs within the Study Area are all low-rise buildings (i.e. 30-35mAG). For the public fill tipping (material handling) spots at these stockpiling areas (SP3a, SP3b, SP3d), the average stockpiling heights 35mPD (30mAG) was adopted as the release height.

The emission height of ground-level roads (i.e. R1a to R3, R5, R7 to R9c) are assumed at 5.5mPD (0.5mAG). The roads (i.e. R6, R11, R11a, R12) at the stockpiling areas are assumed inclined from the ground level 5mPD to the average height of stockping areas 35mPD (30mAG). The height of the ground-level open areas A002 and A004 are assumed 5.5mPD (0.5mAG). The road R4 at the open area A002 inclines from the ground level 5mPD to the elevated tipping spot SP3f 10mPD (5mAG). Thus, the average height 7.5mPD (2.5mAG) is assumed as the release height. The road R6 at the open area A003 inclines from the ground level 5mPD to the elevated tipping spot SP3c 35mPD (30mAG). Thus, the approximate height 25mPD (20mAG) is assumed as the release height based on on-site observation. The roads R11 at the open area A003 and R12 at the open area A001 are at the same level of the tipping spots SP3a 35mPD (30mAG) and SP3d 35mPD (30mAG), respectively. Thus, the average height of 35mPD (30mAG) is assumed for roads R11 and R12 as the release height. The road R11a at the middle of open areas A001 and A003 inclines from the ground level 5mPD to the elevated tipping spots SP3a 35mPD (30mAG) and SP3d 35mPD (30mAG). Thus, the average height 20mPD (15mAG) is assumed as the release height.

The release heights of other sources, as advised by CEDD, are detailed below:
SP3c: The truck loading (material handling) of public fill at stockpiling area for transporting to TKO basin is approximately at 20mPD (15mAG).
SP3f, SP3g: The temporary fill loading location where the external trucks unload the public fill (material handling) from height of 10mPD (5mAG), and internal truck loads the public fill at a lower level of 5.5mPD (0.5mAG).
SP3h, SP3i: Loading and unloading of public fill at the temporary stockpiling area near entrance at 5.5mPD (0.5mAG).
C&DMCF: Unloading of public fill (material handling) to C&DMCF (C&DMCF_H1) and the subsequent crushing and screening (C&DMCF_C, C&DMCF_S) happen at a higher level 10mPD (5mAG). The output of processed public fill from C&DMCF and subseqent truck loading of processed public fill (material handling) (C&DMCF_H2) happen at a lower level 5.5mPD (0.5mAG).
TKOSF, NSD, NSE: Screening of public fill happens at a higher level 10mPD (5mAG). The output of processed public fill from screener and subsequent material handling of processed fill happen at a lower level 5.5mPD (0.5mAG).
IB1, IB2, IB3, IB4, B1, B2, B3, NB4, NB5: Material handling of public fill at barging points at 5.5mPD (0.5mAG).

(c) The maximum RSP and FSP emission rates of the dust emission sources are presented. Hourly emission rates for the dust emission sources are provided in a separate table.

(d) For Road Dust R1a, R1b, and R9c, the operational duration is 13.5 hours (08:00-21:30) but the model is set to run from 08:00-22:00 due to limitations in the timeframe setting in AERMOD.

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Hourly Emission Rate Profile for Dust Emission Sources associated with TKOFB Operation

RSP Emission Rate (g/m2/s)

Source ID	Hour																							
	Hr1	Hr2	Hr3	Hr4	Hr5	Hr6	Hr7	Hr8	Hr9	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
A001	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.275E-06
A002	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.275E-06
A003	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.275E-06
A004	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.275E-06	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.058E-07	1.275E-06
SP3a	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	3.565E-05	0.000E+00
SP3b	2.172E-05	2.172E-05	2.172E-05	2.172E-05	2.172E-05	2.172E-05	2.172E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	2.172E-05
SP3c	2.172E-05	2.172E-05	2.172E-05	2.172E-05	2.172E-05	2.172E-05	2.172E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	4.015E-05	2.172E-05
SP3d	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	1.803E-05	0.000E+00
SP3f	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.896E-05	6.799E-05	7.703E-05	6.162E-05	5.094E-05	5.834E-05	6.491E-05	5.936E-05	5.176E-05	3.369E-05	8.422E-06	2.054E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SP3g	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	3.524E-05	0.000E+00
SP3h	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	6.146E-06	0.000E+00
SP3i	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	7.785E-06	0.000E+00
C&DMCF_C	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	9.375E-04	0.000E+00
C&DMCF_S	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	6.167E-04	0.000E+00
C&DMCF_H1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	0.000E+00
C&DMCF_H2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	1.791E-05	0.000E+00
TKOSF_S	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07	3.414E-07
TKOSF_H	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05	1.225E-05
IB1	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06
IB2	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06
IB3	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06
IB4	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06	2.985E-06
B1	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.434E-05
B2	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.434E-05
B3	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.434E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.463E-05	1.434E-05
NB4	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05
NB5	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05
NSD_S	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05
NSD_H	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04
NSE_S	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05	1.731E-05
NSE_H	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04	6.208E-04
R1a	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	6.907E-06	0.000E+00
R1b	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	7.225E-06	0.000E+00
R2a	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.498E-05	3.517E-05	3.985E-05	3.188E-05	2.635E-05	3.018E-05	3.358E-05	3.071E-05	2.678E-05	1.743E-05	4.357E-06	1.063E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2b	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.498E-05	3.517E-05	3.985E-05	3.188E-05	2.635E-05	3.018E-05	3.358E-05	3.071E-05	2.678E-05	1.743E-05	4.357E-06	1.063E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2c	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.498E-05	3.517E-05	3.985E-05	3.188E-05	2.635E-05	3.018E-05	3.358E-05	3.071E-05	2.678E-05	1.743E-05	4.357E-06	1.063E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2d	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.498E-05	3.517E-05	3.985E-05	3.188E-05	2.635E-05	3.018E-05	3.358E-05	3.071E-05	2.678E-05	1.743E-05	4.357E-06	1.063E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2e	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.498E-05	3.517E-05	3.985E-05	3.188E-05	2.635E-05	3.018E-05	3.358E-05	3.071E-05	2.678E-05	1.743E-05	4.357E-06	1.063E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2f	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.498E-05	3.517E-05	3.985E-05	3.188E-05	2.635E-05	3.018E-05	3.358E-05	3.071E-05	2.678E-05	1.743E-05	4.357E-06	1.063E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.498E-05	3.517E-05	3.985E-05	3.188E-05	2.635E-05	3.018E-05	3.358E-05	3.071E-05	2.678E-05	1.743E-05	4.357E-06	1.063E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.498E-05	3.517E-05	3.985E-05	3.188E-05	2.635E-05	3.018E-05	3.358E-05	3.071E-05	2.678E-05	1.743E-05	4.357E-06	1.063E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	1.828E-05	0.000E+00
R6	1.117E-05	1.117E-05	1.117E-05	1.117E-05	1.117E-05	1.117E-05	1.117E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	2.093E-05	1.117E-05
R7	2.229E-05	2.229E-05	2.229E-05	2.229E-05	2.229E-05	2.229E-05	2.229E-05	2.274E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.274E-05	2.229E-05
R8	2.229E-05	2.229E-05	2.229E-05	2.229E-05	2.229E-05	2.229E-05	2.229E-05	2.274E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.306E-05	2.274E-05	2.229E-05
R9a	2.908E-05	2.908E-05	2.908E-05	2.908E-05	2.908E-05	2.908E-05	2.908E-05	3.836E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.868E-05	3.836E-05	2.908E-05
R9b	1.798E-05	1.798E-05	1.798E-05	1.798E-05	1.798E-05	1.798E-05	1.798E-05	3.629E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.676E-05	3.660E-05	3.629E-05	1.798E-05
R9c	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	5.313E-07	3.497E-07	0.000E+00
R11	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	2.757E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.773E-05	2.757E-05	2.757E-05	1.116E-05
R11a	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	3.873E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.889E-05	3.873E-05	3.873E-05	1.116E-05
R12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	1.116E-05	0.000E+00

Appendix B – RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Hourly Emission Rate Profile for Dust Emission Sources associated with TKOFB Operation

Ratio of RSP Specific Hourly Emission Rate to Maximum Hourly Emission Rate

Source ID	Hour																							
	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
A001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	1.0000
A002	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	1.0000
A003	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	1.0000
A004	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	1.0000
SP3a	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
SP3b	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	1.0000
SP3c	0.5408	0.5408	0.5408	0.5408	0.5408	0.5408	0.5408	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5408
SP3d	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
SP3f	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
SP3g	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
SP3h	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000
SP3i	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000
C&DMCF_C	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
C&DMCF_S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
C&DMCF_H1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
C&DMCF_H2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
TKOSF_S	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
TKOSF_H	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IB1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IB2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IB3	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IB4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
B1	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9802
B2	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9802
B3	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9802
NB4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NB5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NSD_S	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NSD_H	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NSE_S	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NSE_H	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
R1a	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000
R1b	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000
R2a	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2b	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2c	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2d	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2e	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2f	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
R6	0.5337	0.5337	0.5337	0.5337	0.5337	0.5337	0.5337	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5337
R7	0.9668	0.9668	0.9668	0.9668	0.9668	0.9668	0.9668	0.9864	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9864	0.9668
R8	0.9668	0.9668	0.9668	0.9668	0.9668	0.9668	0.9668	0.9864	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9864	0.9668
R9a	0.7518	0.7518	0.7518	0.7518	0.7518	0.7518	0.7518	0.9919	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9919	0.7518
R9b	0.4891	0.4891	0.4891	0.4891	0.4891	0.4891	0.4891	0.9870	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9955	0.9870	0.4891
R9c	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.6582	0.0000	0.0000
R11	0.4022	0.4022	0.4022	0.4022	0.4022	0.4022	0.4022	0.9941	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9941	0.9941	0.4022
R11a	0.2869	0.2869	0.2869	0.2869	0.2869	0.2869	0.2869	0.9958	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9958	0.9958	0.2869
R12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000

Appendix B – RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Hourly Emission Rate Profile for Dust Emission Sources associated with TKOFB Operation

FSP Emission Rate (g/m2/s)

Source ID	Hour																							
	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
A001	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.930E-07
A002	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.930E-07
A003	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.930E-07
A004	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.930E-07	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.602E-08	1.930E-07
SP3a	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	5.398E-06	0.000E+00
SP3b	3.288E-06	3.288E-06	3.288E-06	3.288E-06	3.288E-06	3.288E-06	3.288E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	3.288E-06
SP3c	3.288E-06	3.288E-06	3.288E-06	3.288E-06	3.288E-06	3.288E-06	3.288E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	6.080E-06	3.288E-06
SP3d	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	2.730E-06	0.000E+00
SP3f	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.386E-06	1.030E-05	1.166E-05	9.331E-06	7.714E-06	8.834E-06	9.829E-06	8.989E-06	7.838E-06	5.101E-06	1.275E-06	3.110E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SP3g	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	5.336E-06	0.000E+00
SP3h	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	9.307E-07	0.000E+00	0.000E+00
SP3i	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	1.179E-06	0.000E+00	0.000E+00
C&DMCF_C	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	1.736E-04	0.000E+00
C&DMCF_S	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	4.167E-05	0.000E+00
C&DMCF_H1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	0.000E+00
C&DMCF_H2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	2.712E-06	0.000E+00
TKOSF_S	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08	5.170E-08
TKOSF_H	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07	8.275E-07
IB1	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07
IB2	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07
IB3	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07
IB4	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07	4.519E-07
B1	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.172E-06
B2	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.172E-06
B3	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.172E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.215E-06	2.172E-06
NB4	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06
NB5	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06
NSD_S	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06
NSD_H	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05
NSE_S	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06	2.621E-06
NSE_H	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05	4.194E-05
R1a	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	1.671E-06	0.000E+00	0.000E+00
R1b	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	1.748E-06	0.000E+00	0.000E+00
R2a	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.625E-06	8.509E-06	9.640E-06	7.712E-06	6.375E-06	7.301E-06	8.123E-06	7.429E-06	6.478E-06	4.216E-06	1.054E-06	2.571E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2b	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.625E-06	8.509E-06	9.640E-06	7.712E-06	6.375E-06	7.301E-06	8.123E-06	7.429E-06	6.478E-06	4.216E-06	1.054E-06	2.571E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2c	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.625E-06	8.509E-06	9.640E-06	7.712E-06	6.375E-06	7.301E-06	8.123E-06	7.429E-06	6.478E-06	4.216E-06	1.054E-06	2.571E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2d	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.625E-06	8.509E-06	9.640E-06	7.712E-06	6.375E-06	7.301E-06	8.123E-06	7.429E-06	6.478E-06	4.216E-06	1.054E-06	2.571E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2e	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.625E-06	8.509E-06	9.640E-06	7.712E-06	6.375E-06	7.301E-06	8.123E-06	7.429E-06	6.478E-06	4.216E-06	1.054E-06	2.571E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R2f	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.625E-06	8.509E-06	9.640E-06	7.712E-06	6.375E-06	7.301E-06	8.123E-06	7.429E-06	6.478E-06	4.216E-06	1.054E-06	2.571E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.625E-06	8.509E-06	9.640E-06	7.712E-06	6.375E-06	7.301E-06	8.123E-06	7.429E-06	6.478E-06	4.216E-06	1.054E-06	2.571E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.625E-06	8.509E-06	9.640E-06	7.712E-06	6.375E-06	7.301E-06	8.123E-06	7.429E-06	6.478E-06	4.216E-06	1.054E-06	2.571E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00
R5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	4.422E-06	0.000E+00
R6	2.703E-06	2.703E-06	2.703E-06	2.703E-06	2.703E-06	2.703E-06	2.703E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	5.064E-06	2.703E-06
R7	5.393E-06	5.393E-06	5.393E-06	5.393E-06	5.393E-06	5.393E-06	5.393E-06	5.502E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.502E-06	5.393E-06
R8	5.393E-06	5.393E-06	5.393E-06	5.393E-06	5.393E-06	5.393E-06	5.393E-06	5.502E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.578E-06	5.502E-06	5.393E-06
R9a	7.035E-06	7.035E-06	7.035E-06	7.035E-06	7.035E-06	7.035E-06	7.035E-06	9.281E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.357E-06	9.281E-06	7.035E-06
R9b	4.351E-06	4.351E-06	4.351E-06	4.351E-06	4.351E-06	4.351E-06	4.351E-06	8.779E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.895E-06	8.855E-06	8.779E-06	4.351E-06
R9c	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	1.285E-07	8.461E-08	0.000E+00	0.000E+00
R11	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	6.670E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.710E-06	6.670E-06	6.670E-06	2.699E-06
R11a	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	9.369E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.409E-06	9.369E-06	9.369E-06	2.699E-06
R12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	2.699E-06	0.000E+00

Appendix B – RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Hourly Emission Rate Profile for Dust Emission Sources associated with TKOFB Operation

Ratio of FSP Specific Hourly Emission Rate to Maximum Hourly Emission Rate

Source ID	Hour																							
	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
A001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	1.0000
A002	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	1.0000
A003	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	1.0000
A004	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	0.0830	1.0000
SP3a	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
SP3b	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	0.8302	1.0000
SP3c	0.5408	0.5408	0.5408	0.5408	0.5408	0.5408	0.5408	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5408
SP3d	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
SP3f	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
SP3g	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
SP3h	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000
SP3i	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000
C&DMCF_C	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
C&DMCF_S	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
C&DMCF_H1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
C&DMCF_H2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
TKOSF_S	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
TKOSF_H	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IB1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IB2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IB3	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
IB4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
B1	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9802
B2	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9802
B3	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	0.9802	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9802
NB4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NB5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NSD_S	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NSD_H	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NSE_S	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
NSE_H	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
R1a	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000
R1b	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000
R2a	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2b	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2c	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2d	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2e	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R2f	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3760	0.8827	1.0000	0.8000	0.6613	0.7573	0.8427	0.7707	0.6720	0.4373	0.1093	0.0267	0.0000	0.0000	0.0000	0.0000
R5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
R6	0.5337	0.5337	0.5337	0.5337	0.5337	0.5337	0.5337	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5337
R7	0.9668	0.9668	0.9668	0.9668	0.9668	0.9668	0.9668	0.9864	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9864	0.9668
R8	0.9668	0.9668	0.9668	0.9668	0.9668	0.9668	0.9668	0.9864	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9864	0.9668
R9a	0.7518	0.7518	0.7518	0.7518	0.7518	0.7518	0.7518	0.9919	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9919	0.7518
R9b	0.4891	0.4891	0.4891	0.4891	0.4891	0.4891	0.4891	0.9870	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9955	0.9870	0.4891
R9c	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.6582	0.0000	0.0000
R11	0.4022	0.4022	0.4022	0.4022	0.4022	0.4022	0.4022	0.9941	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9941	0.9941	0.4022
R11a	0.2869	0.2869	0.2869	0.2869	0.2869	0.2869	0.2869	0.9958	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9958	0.9958	0.2869
R12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000

Appendix B - RSP and FSP Emission Rate Calculations for Dust Emission Sources associated with TKOFB Operation

Mass Fractions of Particle Sizes for Dust Sources

Material Handling and Wind Erosion

Particle Size (μm)	Average Particle Size (μm)	Mass Fraction	
		RSP	FSP
2.5	1.25	0.15	1
5	3.75	0.42	-
10	7.5	0.43	-

: AP-42, Section 13.2.4 (Edition 11/06)

Material Crushing

Particle Size (μm)	Average Particle Size (μm)	Mass Fraction	
		RSP	FSP
2.5	1.25	0.19	1
10	6.25	0.81	-

Reference: AP-42, Table 11.19.2-1, Tertiary Crushing (controlled)

Material Screening

Particle Size (μm)	Average Particle Size (μm)	Mass Fraction	
		RSP	FSP
2.5	1.25	0.07	1
10	6.25	0.93	-

Reference: AP-42, Table 11.19.2-1, Screening (controlled)

Haul Road

Particle Size (μm)	Average Particle Size (μm)	Mass Fraction	
		RSP	FSP
2.5	1.25	0.24	1
10	6.25	0.76	-

Reference: AP-42 Section 13.2.1 (Edition 1/11)

APPENDIX C EMISSION INVENTORY AND EMISSION RATES FOR MARINE VESSELS

Appendix C - Emission Inventory and Emission Rates for Marine Vessels

Calculations of Emission Rates for Marine Vessels

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate	Unit	Reference
1	TKOFB	Berthing Emissions from Barge		Average Auxiliary Engine Power (Barge)	50	kW			Provided by CEDD
				Auxiliary Engine Load factor	0.43				Table 4.10, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			NOx	Emission Factor	10	g/kWh	2.150E+02	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			SO2	Emission Factor	0.208	g/kWh	4.472E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
			RSP	Emission Factor	0.4	g/kWh	8.600E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			FSP	Emission Factor	0.39	g/kWh	8.385E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
2		Berthing Emissions from Derrick Lighter		Average Auxiliary Engine Power (Derrick	270	kW			Provided by CEDD
				Auxiliary Engine Load factor	0.43				Table 4.10, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			NOx	Emission Factor	10	g/kWh	1.161E+03	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			SO2	Emission Factor	0.208	g/kWh	2.415E+01	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
			RSP	Emission Factor	0.4	g/kWh	4.644E+01	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			FSP	Emission Factor	0.39	g/kWh	4.528E+01	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
3		Maneuvering (Barge)		Average Main Engine Power (Barge)	1100	kW			Provided by CEDD
				Main Engine Load factor	0.3				Table 4.7, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			NOx	Emission Factor	10	g/kWh	3.300E+03	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			SO2	Emission Factor	0.208	g/kWh	6.864E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
			RSP	Emission Factor	0.3	g/kWh	9.900E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			FSP	Emission Factor	0.29	g/kWh	9.570E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
4	Proposed Concrete Batching Plant	Berthing Emissions from Barge		Average Auxiliary Engine Power (Barge)	50	kW			The type of the barge is similar to TKOFB. Thus the assumptions were made similar to those of
				Auxiliary Engine Load factor	0.43				Table 4.10, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			NOx	Emission Factor	10	g/kWh	2.150E+02	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			SO2	Emission Factor	0.208	g/kWh	4.472E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
			RSP	Emission Factor	0.4	g/kWh	8.600E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			FSP	Emission Factor	0.39	g/kWh	8.385E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
5		Maneuvering (Barge)		Average Main Engine Power (Barge)	1100	kW			The type of the barge is similar to TKOFB. Thus the assumptions were made similar to those of
				Main Engine Load factor	0.3				Table 4.7, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			NOx	Emission Factor	10	g/kWh	3.300E+03	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			SO2	Emission Factor	0.208	g/kWh	6.864E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
			RSP	Emission Factor	0.3	g/kWh	9.900E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
			FSP	Emission Factor	0.29	g/kWh	9.570E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD

Appendix C - Emission Inventory and Emission Rates for Marine Vessels

Calculations of Emission Rates for Marine Vessels - Berthing

Location	Source	Model ID	Time-in-mode [a][d]	Daily Flow [b]	Working Hour	Number of Working Hour	Type of Vessel [c]	Emission Rate								AERMOD Input Hour
								NOx		SO2		RSP		FSP		
			(hour)	(flow)	(hour)	(hour)	(type)	(g/hr/vessel)	(g/s)	(g/hr/vessel)	(g/s)	(g/hr/vessel)	(g/s)	(g/hr/vessel)	(g/s)	(input hour)
TKOFB	Berthing Emissions from Barge	B1_B, B2_B, B3_B	4	4	07:00 - 23:00	16	Barge	2.150E+02	5.972E-02	4.472E+00	1.242E-03	8.600E+00	2.389E-03	8.385E+00	2.329E-03	07:00 - 23:00
	Berthing Emissions from Derrick Lighter	B1_B_N, B2_B_N, B3_B_N	4	2	23:00 - 07:00	8	Derrick Lighter	1.161E+03	3.225E-01	2.415E+01	6.708E-03	4.644E+01	1.290E-02	4.528E+01	1.258E-02	23:00 - 07:00
	Berthing Emissions from Derrick Lighter	IB1_B, IB2_B, IB3_B, IB4_B	4	2	24-hour	24	Derrick Lighter	1.161E+03	1.075E-01	2.415E+01	2.236E-03	4.644E+01	4.300E-03	4.528E+01	4.193E-03	24-hour
	Berthing Emissions from Derrick Lighter	NB4_B, NB5_B	4	6	24-hour	24	Derrick Lighter	1.161E+03	3.225E-01	2.415E+01	6.708E-03	4.644E+01	1.290E-02	4.528E+01	1.258E-02	24-hour
Proposed CBP	Berthing Emissions from Barge	C1_B, C2_B, C3_B	6	1	07:00 - 23:00	16	Barge	2.150E+02	2.240E-02	4.472E+00	4.658E-04	8.600E+00	8.958E-04	8.385E+00	8.734E-04	07:00 - 23:00

Calculations of Emission Rates for Marine Vessels - Maneuvering

Location	Source	Model ID	Time-in-mode [a][d]	Daily Flow [b]	Working Hour	Number of Working Hour	Type of Vessel [c]	Emission Rate								AERMOD Input Hour
								NOx		SO2		RSP		FSP		
			(hour)	(flow)	(hour)	(hour)	(type)	(g/hr/vessel)	(g/s)	(g/hr/vessel)	(g/s)	(g/hr/vessel)	(g/s)	(g/hr/vessel)	(g/s)	(input hour)
TKOFB	Route M1-M52 for B1-B3, IB1-IB4	from B1 - B3	0.33	24	07:00 - 23:00	16	Barge	3.300E+03	4.583E-01	6.864E+01	9.533E-03	9.900E+01	1.375E-02	9.570E+01	1.329E-02	
				12	23:00 - 07:00	8	Barge	3.300E+03	4.583E-01	6.864E+01	9.533E-03	9.900E+01	1.375E-02	9.570E+01	1.329E-02	
		from IB1 - IB4	0.33	16	24-hour	24	Barge	3.300E+03	2.037E-01	6.864E+01	4.237E-03	9.900E+01	6.111E-03	9.570E+01	5.907E-03	
		M1-M52							1.273E-02		2.648E-04		3.819E-04		3.692E-04	07:00 - 23:00
									1.273E-02		2.648E-04		3.819E-04		3.692E-04	23:00 - 07:00
	Route M101-M173 for NB4, NB5	from NB4, NB5	0.50	24	24-hour	24	Barge	3.300E+03	4.583E-01	6.864E+01	9.533E-03	9.900E+01	1.375E-02	9.570E+01	1.329E-02	
		M101-M173							6.279E-03		1.306E-04		1.884E-04		1.821E-04	07:00 - 23:00
									6.279E-03		1.306E-04		1.884E-04		1.821E-04	23:00 - 07:00
Proposed CBP	Route M201-M245 for C1-C3	from C1 - C3	0.33	6	07:00 - 23:00	16	Barge	3.300E+03	1.146E-01	6.864E+01	2.383E-03	9.900E+01	3.438E-03	9.570E+01	3.323E-03	
		M201-245							2.546E-03		5.296E-05		7.639E-05		7.384E-05	07:00 - 23:00

Notes:

(a) Time-in-mode for berthing refers to the berthing time at barging point and is assumed to be 4 hours as confirmed with CEDD.
Time-in-mode for maneuvering refers to the maneuvering time within the Study Area and is assumed to be 20 minutes for route M1-M52 and 30 minutes for route M101-M173 as confirmed with CEDD.

(b) Daily flow for berthing refers to number of vessels at berth at each barging point each day and these were confirmed with CEDD and tenant of CBP via CEDD.
Daily flow for maneuvering refers to vessel arrival and departure volume at all relevant barging points (i.e. total of two-way routes) and these were confirmed with CEDD and the tenant of CBP via CEDD.

(c) For berthing, marine vessels for material export at TKO Basin during daytime period (07:00-23:00) are barges.
Marine vessels for material export at TKO Basin during nighttime period (23:00-07:00) and at barging points south of TKO Basin may be barge or derrick lighter. Emission rate (g/hr/vessel) of derrick lighter at berth is higher and is adopted as a conservative assessment.
Marine vesssels for material import at TKO Basin are derrick lighter.
For maneuvering, the emission rate (g/hr/vessel) of barge is higher than that of tugboat with derrick lighter and hence is adopted as a conservative assessment (i.e. M1 to M52; M101 to M173).

(d) For the proposed CBP, the time-in-mode for berthing is provided by the operator of CBP via CEDD. The time-in-mode for maneuvering is assumed to be similar to that of B1-B3 in TKOFB.

Appendix C - Emission Inventory and Emission Rates for Marine Vessels

Emission Inventory for Marine Vessels

Model ID	Description	Source Type	X-Coordinate	Y-Coordinate	Base Elevation	Release Height	Temperature	Exit Velocity	Stack Diameter	AERMOD Input Hour	Emission Rate							
											NOx		SO2		RSP		FSP	
											07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00
			(HK1980)	(HK1980)	(mPD)	(mAG)	(K)	(m/s)	(m)	(hour)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)
B1_B	B1 Berthing	POINT	845685.40	814821.54	0	15	803	8	0.30	07:00-23:00	5.972E-02	-	1.242E-03	-	2.389E-03	-	2.329E-03	-
B2_B	B2 Berthing	POINT	845809.21	814871.16	0	15	803	8	0.30	07:00-23:00	5.972E-02	-	1.242E-03	-	2.389E-03	-	2.329E-03	-
B3_B	B3 Berthing	POINT	845839.41	814990.24	0	15	803	8	0.30	07:00-23:00	5.972E-02	-	1.242E-03	-	2.389E-03	-	2.329E-03	-
B1_B_N	B1 Berthing (nighttime)	POINT	845685.40	814821.54	0	9	795	8	0.15	23:00-07:00	-	3.225E-01	-	6.708E-03	-	1.290E-02	-	1.258E-02
B2_B_N	B2 Berthing (nighttime)	POINT	845809.21	814871.16	0	9	795	8	0.15	23:00-07:00	-	3.225E-01	-	6.708E-03	-	1.290E-02	-	1.258E-02
B3_B_N	B3 Berthing (nighttime)	POINT	845839.41	814990.24	0	9	795	8	0.15	23:00-07:00	-	3.225E-01	-	6.708E-03	-	1.290E-02	-	1.258E-02
IB1_B	IB1 Berthing	POINT	845796.45	815097.25	0	9	795	8	0.15	24-hour	1.075E-01	1.075E-01	2.236E-03	2.236E-03	4.300E-03	4.300E-03	4.193E-03	4.193E-03
IB2_B	IB2 Berthing	POINT	845763.35	814852.78	0	9	795	8	0.15	24-hour	1.075E-01	1.075E-01	2.236E-03	2.236E-03	4.300E-03	4.300E-03	4.193E-03	4.193E-03
IB3_B	IB3 Berthing	POINT	845665.24	815077.23	0	9	795	8	0.15	24-hour	1.075E-01	1.075E-01	2.236E-03	2.236E-03	4.300E-03	4.300E-03	4.193E-03	4.193E-03
IB4_B	IB4 Berthing	POINT	845741.75	815107.96	0	9	795	8	0.15	24-hour	1.075E-01	1.075E-01	2.236E-03	2.236E-03	4.300E-03	4.300E-03	4.193E-03	4.193E-03
NB4_B	NB4 Berthing	POINT	845894.03	814425.05	0	9	795	8	0.15	24-hour	3.225E-01	3.225E-01	6.708E-03	6.708E-03	1.290E-02	1.290E-02	1.258E-02	1.258E-02
NB5_B	NB5 Berthing	POINT	845830.42	814542.93	0	9	795	8	0.15	24-hour	3.225E-01	3.225E-01	6.708E-03	6.708E-03	1.290E-02	1.290E-02	1.258E-02	1.258E-02
C1_B	C1 Berthing	POINT	845576.52	815009.27	0	15	803	8	0.30	07:00-23:00	2.240E-02	-	4.658E-04	-	8.958E-04	-	8.734E-04	-
C2_B	C2 Berthing	POINT	845588.11	815046.32	0	15	803	8	0.30	07:00-23:00	2.240E-02	-	4.658E-04	-	8.958E-04	-	8.734E-04	-
C3_B	C3 Berthing	POINT	845608.30	815054.37	0	15	803	8	0.30	07:00-23:00	2.240E-02	-	4.658E-04	-	8.958E-04	-	8.734E-04	-
M1	M1-M52 Maneuvering	POINT	845828.85	814935.00	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M2	M1-M52 Maneuvering	POINT	845810.25	814925.30	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M3	M1-M52 Maneuvering	POINT	845791.65	814915.50	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M4	M1-M52 Maneuvering	POINT	845772.15	814909.30	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M5	M1-M52 Maneuvering	POINT	845751.52	814905.30	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M6	M1-M52 Maneuvering	POINT	845731.03	814902.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M7	M1-M52 Maneuvering	POINT	845710.11	814900.80	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M8	M1-M52 Maneuvering	POINT	845689.19	814899.00	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M9	M1-M52 Maneuvering	POINT	845668.55	814897.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M10	M1-M52 Maneuvering	POINT	845647.55	814897.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M11	M1-M52 Maneuvering	POINT	845626.55	814897.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M12	M1-M52 Maneuvering	POINT	845605.55	814897.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M13	M1-M52 Maneuvering	POINT	845584.85	814897.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M14	M1-M52 Maneuvering	POINT	845563.89	814898.90	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M15	M1-M52 Maneuvering	POINT	845542.93	814900.30	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M16	M1-M52 Maneuvering	POINT	845521.97	814901.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M17	M1-M52 Maneuvering	POINT	845501.01	814902.90	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M18	M1-M52 Maneuvering	POINT	845480.45	814905.10	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M19	M1-M52 Maneuvering	POINT	845459.69	814908.20	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M20	M1-M52 Maneuvering	POINT	845438.93	814911.40	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M21	M1-M52 Maneuvering	POINT	845418.18	814914.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M22	M1-M52 Maneuvering	POINT	845397.92	814918.80	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M23	M1-M52 Maneuvering	POINT	845377.43	814923.40	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M24	M1-M52 Maneuvering	POINT	845356.95	814928.10	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M25	M1-M52 Maneuvering	POINT	845337.20	814934.20	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M26	M1-M52 Maneuvering	POINT	845317.34	814941.00	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M27	M1-M52 Maneuvering	POINT	845297.48	814947.80	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M28	M1-M52 Maneuvering	POINT	845278.48	814955.90	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M29	M1-M52 Maneuvering	POINT	845259.81	814965.50	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M30	M1-M52 Maneuvering	POINT	845241.13	814975.10	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M31	M1-M52 Maneuvering	POINT	845222.46	814984.70	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M32	M1-M52 Maneuvering	POINT	845205.67	814996.70	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M33	M1-M52 Maneuvering	POINT	845189.13	815009.70	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M34	M1-M52 Maneuvering	POINT	845172.60	815022.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M35	M1-M52 Maneuvering	POINT	845161.10	815039.80	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M36	M1-M52 Maneuvering	POINT	845149.46	815057.30	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M37	M1-M52 Maneuvering	POINT	845138.93	815075.10	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M38	M1-M52 Maneuvering	POINT	845128.93	815093.60	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M39	M1-M52 Maneuvering	POINT	845118.97	815112.00	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M40	M1-M52 Maneuvering	POINT	845110.26	815130.80	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M41	M1-M52 Maneuvering	POINT	845101.46	815149.90	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M42	M1-M52 Maneuvering	POINT	845093.78	815169.10	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M43	M1-M52 Maneuvering	POINT	845088.69	815189.40	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M44	M1-M52 Maneuvering	POINT	845083.59	815209.80	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04

Appendix C - Emission Inventory and Emission Rates for Marine Vessels

Emission Inventory for Marine Vessels

Model ID	Description	Source Type	X-Coordinate	Y-Coordinate	Base Elevation	Release Height	Temperature	Exit Velocity	Stack Diameter	AERMOD Input Hour	Emission Rate							
											NOx		SO2		RSP		FSP	
											07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00
			(HK1980)	(HK1980)	(mPD)	(mAG)	(K)	(m/s)	(m)	(hour)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)
M45	M1-M52 Maneuvering	POINT	845078.91	815230.00	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M46	M1-M52 Maneuvering	POINT	845074.19	815250.40	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M47	M1-M52 Maneuvering	POINT	845070.20	815270.70	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M48	M1-M52 Maneuvering	POINT	845067.23	815291.50	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M49	M1-M52 Maneuvering	POINT	845064.26	815312.30	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M50	M1-M52 Maneuvering	POINT	845062.40	815332.90	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M51	M1-M52 Maneuvering	POINT	845060.98	815353.90	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M52	M1-M52 Maneuvering	POINT	845059.88	815370.00	0	15	803	8	0.30	24-hour	1.273E-02	1.273E-02	2.648E-04	2.648E-04	3.819E-04	3.819E-04	3.692E-04	3.692E-04
M101	M101-M173 Maneuvering	POINT	845862.78	814490.40	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M102	M101-M173 Maneuvering	POINT	845847.31	814477.73	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M103	M101-M173 Maneuvering	POINT	845831.14	814465.97	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M104	M101-M173 Maneuvering	POINT	845814.34	814455.13	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M105	M101-M173 Maneuvering	POINT	845796.94	814445.27	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M106	M101-M173 Maneuvering	POINT	845778.96	814436.52	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M107	M101-M173 Maneuvering	POINT	845760.50	814428.85	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M108	M101-M173 Maneuvering	POINT	845741.62	814422.25	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M109	M101-M173 Maneuvering	POINT	845722.41	814416.72	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M110	M101-M173 Maneuvering	POINT	845702.89	814412.37	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M111	M101-M173 Maneuvering	POINT	845683.14	814409.23	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M112	M101-M173 Maneuvering	POINT	845663.25	814407.22	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M113	M101-M173 Maneuvering	POINT	845643.27	814406.34	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M114	M101-M173 Maneuvering	POINT	845623.28	814406.62	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M115	M101-M173 Maneuvering	POINT	845603.35	814408.19	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M116	M101-M173 Maneuvering	POINT	845583.53	814410.88	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M117	M101-M173 Maneuvering	POINT	845563.91	814414.70	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M118	M101-M173 Maneuvering	POINT	845544.52	814419.62	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M119	M101-M173 Maneuvering	POINT	845525.50	814425.78	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M120	M101-M173 Maneuvering	POINT	845506.87	814433.03	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M121	M101-M173 Maneuvering	POINT	845488.67	814441.32	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M122	M101-M173 Maneuvering	POINT	845470.98	814450.64	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M123	M101-M173 Maneuvering	POINT	845453.90	814461.03	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M124	M101-M173 Maneuvering	POINT	845437.48	814472.44	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M125	M101-M173 Maneuvering	POINT	845421.73	814484.76	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M126	M101-M173 Maneuvering	POINT	845406.70	814497.95	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M127	M101-M173 Maneuvering	POINT	845392.49	814512.01	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M128	M101-M173 Maneuvering	POINT	845379.18	814526.94	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M129	M101-M173 Maneuvering	POINT	845366.75	814542.60	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M130	M101-M173 Maneuvering	POINT	845355.22	814558.94	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M131	M101-M173 Maneuvering	POINT	845344.65	814575.91	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M132	M101-M173 Maneuvering	POINT	845334.93	814593.39	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M133	M101-M173 Maneuvering	POINT	845325.22	814610.87	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M134	M101-M173 Maneuvering	POINT	845315.51	814628.36	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M135	M101-M173 Maneuvering	POINT	845305.79	814645.84	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M136	M101-M173 Maneuvering	POINT	845296.04	814663.30	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M137	M101-M173 Maneuvering	POINT	845286.24	814680.73	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M138	M101-M173 Maneuvering	POINT	845276.43	814698.16	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M139	M101-M173 Maneuvering	POINT	845266.63	814715.59	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M140	M101-M173 Maneuvering	POINT	845256.85	814733.04	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M141	M101-M173 Maneuvering	POINT	845247.14	814750.53	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M142	M101-M173 Maneuvering	POINT	845237.43	814768.01	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M143	M101-M173 Maneuvering	POINT	845227.71	814785.49	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M144	M101-M173 Maneuvering	POINT	845218.00	814802.98	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M145	M101-M173 Maneuvering	POINT	845209.10	814820.88	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M146	M101-M173 Maneuvering	POINT	845200.45	814838.91	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M147	M101-M173 Maneuvering	POINT	845191.79	814856.94	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M148	M101-M173 Maneuvering	POINT	845183.14	814874.97	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M149	M101-M173 Maneuvering	POINT	845174.48	814893.00	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M150	M101-M173 Maneuvering	POINT	845165.83	814911.03	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M151	M101-M173 Maneuvering	POINT	845157.51	814929.22	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04

Appendix C - Emission Inventory and Emission Rates for Marine Vessels

Emission Inventory for Marine Vessels

Model ID	Description	Source Type	X-Coordinate	Y-Coordinate	Base Elevation	Release Height	Temperature	Exit Velocity	Stack Diameter	AERMOD Input Hour	Emission Rate							
											NOx		SO2		RSP		FSP	
											07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00
			(HK1980)	(HK1980)	(mPD)	(mAG)	(K)	(m/s)	(m)	(hour)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)
M152	M101-M173 Maneuvering	POINT	845149.41	814947.51	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M153	M101-M173 Maneuvering	POINT	845141.32	814965.79	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M154	M101-M173 Maneuvering	POINT	845133.22	814984.08	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M155	M101-M173 Maneuvering	POINT	845125.13	815002.37	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M156	M101-M173 Maneuvering	POINT	845117.03	815020.66	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M157	M101-M173 Maneuvering	POINT	845108.94	815038.95	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M158	M101-M173 Maneuvering	POINT	845101.12	815057.34	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M159	M101-M173 Maneuvering	POINT	845094.48	815076.21	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M160	M101-M173 Maneuvering	POINT	845087.84	815095.08	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M161	M101-M173 Maneuvering	POINT	845081.20	815113.94	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M162	M101-M173 Maneuvering	POINT	845074.56	815132.81	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M163	M101-M173 Maneuvering	POINT	845067.93	815151.68	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M164	M101-M173 Maneuvering	POINT	845061.29	815170.54	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M165	M101-M173 Maneuvering	POINT	845057.61	815190.15	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M166	M101-M173 Maneuvering	POINT	845054.57	815209.92	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M167	M101-M173 Maneuvering	POINT	845051.53	815229.69	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M168	M101-M173 Maneuvering	POINT	845048.49	815249.45	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M169	M101-M173 Maneuvering	POINT	845045.44	815269.22	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M170	M101-M173 Maneuvering	POINT	845042.40	815288.99	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M171	M101-M173 Maneuvering	POINT	845039.88	815308.83	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M172	M101-M173 Maneuvering	POINT	845037.38	815328.67	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M173	M101-M173 Maneuvering	POINT	845034.87	815348.51	0	15	803	8	0.30	24-hour	6.279E-03	6.279E-03	1.306E-04	1.306E-04	1.884E-04	1.884E-04	1.821E-04	1.821E-04
M201	M201-M245 Maneuvering	POINT	845609.81	814991.44	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M202	M201-M245 Maneuvering	POINT	845598.33	814975.06	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M203	M201-M245 Maneuvering	POINT	845584.25	814960.85	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M204	M201-M245 Maneuvering	POINT	845567.32	814950.22	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M205	M201-M245 Maneuvering	POINT	845549.34	814941.46	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M206	M201-M245 Maneuvering	POINT	845532.14	814931.25	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M207	M201-M245 Maneuvering	POINT	845514.94	814921.05	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M208	M201-M245 Maneuvering	POINT	845496.79	814912.65	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M209	M201-M245 Maneuvering	POINT	845477.49	814907.38	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M210	M201-M245 Maneuvering	POINT	845458.20	814902.12	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M211	M201-M245 Maneuvering	POINT	845438.21	814901.42	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M212	M201-M245 Maneuvering	POINT	845418.22	814900.73	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M213	M201-M245 Maneuvering	POINT	845398.23	814901.21	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M214	M201-M245 Maneuvering	POINT	845378.28	814902.62	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M215	M201-M245 Maneuvering	POINT	845358.44	814905.15	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M216	M201-M245 Maneuvering	POINT	845338.72	814908.50	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M217	M201-M245 Maneuvering	POINT	845319.45	814913.85	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M218	M201-M245 Maneuvering	POINT	845300.18	814919.20	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M219	M201-M245 Maneuvering	POINT	845281.33	814925.88	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M220	M201-M245 Maneuvering	POINT	845262.91	814933.67	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M221	M201-M245 Maneuvering	POINT	845244.96	814942.50	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M222	M201-M245 Maneuvering	POINT	845228.06	814953.20	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M223	M201-M245 Maneuvering	POINT	845211.61	814964.57	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M224	M201-M245 Maneuvering	POINT	845195.82	814976.84	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M225	M201-M245 Maneuvering	POINT	845181.71	814991.02	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M226	M201-M245 Maneuvering	POINT	845167.61	815005.20	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M227	M201-M245 Maneuvering	POINT	845153.50	815019.38	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M228	M201-M245 Maneuvering	POINT	845140.46	815034.54	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M229	M201-M245 Maneuvering	POINT	845129.73	815051.42	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M230	M201-M245 Maneuvering	POINT	845121.49	815069.65	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M231	M201-M245 Maneuvering	POINT	845114.49	815088.38	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M232	M201-M245 Maneuvering	POINT	845107.48	815107.11	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M233	M201-M245 Maneuvering	POINT	845097.60	815124.50	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M234	M201-M245 Maneuvering	POINT	845091.43	815142.22	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M235	M201-M245 Maneuvering	POINT	845083.20	815161.56	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M236	M201-M245 Maneuvering	POINT	845079.82	815181.70	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M237	M201-M245 Maneuvering	POINT	845073.72	815200.75	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-

Appendix C - Emission Inventory and Emission Rates for Marine Vessels

Emission Inventory for Marine Vessels

Model ID	Description	Source Type	X-Coordinate	Y-Coordinate	Base Elevation	Release Height	Temperature	Exit Velocity	Stack Diameter	AERMOD Input Hour	Emission Rate							
											NOx		SO2		RSP		FSP	
											07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00	07:00 - 23:00	23:00 - 07:00
			(HK1980)	(HK1980)	(mPD)	(mAG)	(K)	(m/s)	(m)	(hour)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)
M238	M201-M245 Maneuvering	POINT	845068.98	815220.18	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M239	M201-M245 Maneuvering	POINT	845064.24	815239.61	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M240	M201-M245 Maneuvering	POINT	845060.71	815259.29	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M241	M201-M245 Maneuvering	POINT	845058.01	815279.11	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M242	M201-M245 Maneuvering	POINT	845055.31	815298.93	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M243	M201-M245 Maneuvering	POINT	845052.62	815318.74	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M244	M201-M245 Maneuvering	POINT	845049.92	815338.56	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-
M245	M201-M245 Maneuvering	POINT	845047.22	815358.38	0	15	803	8	0.30	07:00-23:00	2.546E-03	-	5.296E-05	-	7.639E-05	-	7.384E-05	-

Notes:

(a) It is assumed that all emissions from marine vessels (berthing and maneuvering) occur concurrently as a worst case scenario.

(b) For marine emissions from TKOFB, the stack parameters including height, temperature, velocity and diameter were reasonably assumed as confirmed by CEDD.

(c) For marine emissions from the proposed CBP, the stack parameters including height, temperature, velocity and diameter were assumed as the same as TKOFB.

APPENDIX D EMISSION INVENTORY FOR GENERATORS AND CRUSHERS (INTERNAL COMBUSTION ENGINES) WITHIN TKOFB

Appendix D - Emission Inventory for Generators and Crushers (Internal Combustion Engines) within TKOFB

Emission Inventory (Generators and Crushers within TKOFB)

Model ID	Description	Source Type	X-Coordinate	Y-Coordinate	Base Elevation	Release Height	Temperature	Exit Velocity	Stack Diameter	AERMOD Input Hour	Number of Working Hours	Fuel Consumption	Engine Power	Engine Power	Emission Rate			
															NOx	SO2	RSP	FSP
		(Type)	(HK1980)	(HK1980)	(mPD)	(mAG)	(K)	(m/s)	(m)	(hour)	(hour)	(L/hour)	(kVA)	(kW)	(g/s)	(g/s)	(g/s)	(g/s)
G1	CH-01 GN	POINT	846485.23	813926.25	5.00	1.70	773.15	84.9	0.1	07:00 - 22:00	15	20	114	91.2	1.013E-01	6.078E-04	7.600E-03	7.600E-03
G2	CH-02 GN	POINT	846457.72	813933.66	5.00	1.70	773.15	52.8	0.075	07:00 - 22:00	15	14	114	91.2	1.013E-01	4.254E-04	7.600E-03	7.600E-03
G3	CH-03 GN	POINT	846310.08	814072.83	5.00	1.70	773.15	84.9	0.1	07:00 - 21:00	14	10	91.2	72.96	9.525E-02	3.039E-04	8.107E-03	8.107E-03
G4	CH-04 GN	POINT	846620.17	813947.95	5.00	1.75	773.15	80.8	0.105	09:00 - 19:00	10	28	228	182.4	2.027E-01	8.509E-04	1.013E-02	1.013E-02
G5	CH-05 GN	POINT	846611.18	813968.06	5.00	1.85	793.15	52.4	0.135	07:00 - 21:00	14	41	228	182.4	2.027E-01	1.246E-03	1.013E-02	1.013E-02
G6	CH-06 GN	POINT	846496.35	814054.84	5.00	1.75	783.15	80.8	0.105	07:00 - 22:00	15	25	114	91.2	1.013E-01	7.597E-04	7.600E-03	7.600E-03
G7	CH-07 GN	POINT	846487.88	814074.95	5.00	2.20	773.15	37.3	0.16	07:00 - 22:00	15	30	228	182.4	2.027E-01	9.116E-04	1.013E-02	1.013E-02
G8	CH-08 GN	POINT	846410.62	813973.88	5.00	1.70	773.15	84.9	0.1	07:00 - 22:00	15	18	114	91.2	1.013E-01	5.470E-04	7.600E-03	7.600E-03
G9	CH-10 GN	POINT	846153.98	814079.71	5.00	1.85	793.15	52.4	0.135	07:00 - 22:00	15	17	71.82	57.456	7.501E-02	5.166E-04	6.384E-03	6.384E-03
G10	CH-12 GN [g]	POINT	846164.56	814186.60	35.00	1.05	763.15	79.6	0.04	07:00 - 22:00	15	3	22.8	18.24	3.800E-02	9.116E-05	3.040E-03	3.040E-03
G11	CH-13 GN [g]	POINT	846076.72	814411.50	20.00	1.05	763.15	79.6	0.04	06:00 - 22:00	16	2	11.4	9.12	1.900E-02	6.078E-05	1.520E-03	1.520E-03
G12	CH-14 GN [g]	POINT	846212.18	814125.75	35.00	1.35	763.15	58.9	0.06	07:00 - 22:00	15	4	34.2	27.36	5.700E-02	1.216E-04	4.560E-03	4.560E-03
G13	CH-18 GN	POINT	845781.44	814726.62	5.00	1.05	763.15	79.6	0.04	07:00 - 22:00	15	2	22.8	18.24	3.800E-02	6.078E-05	3.040E-03	3.040E-03
G14	CH-19 GN	POINT	846049.20	814270.74	5.00	1.70	773.15	52.8	0.075	07:00 - 22:00	15	16	71.82	57.456	7.501E-02	4.862E-04	6.384E-03	6.384E-03
G15	CH-20 GN [g]	POINT	846453.48	814037.91	10.00	1.05	763.15	79.6	0.04	06:00 - 22:00	16	1	22.8	18.24	3.800E-02	3.039E-05	3.040E-03	3.040E-03
G16	E-01	POINT	846541.86	813926.25	5.00	2.00	803.15	78.5	0.1	07:00 - 20:00	13	46	114	91.2	1.013E-01	1.398E-03	7.600E-03	7.600E-03
G17	E-02	POINT	846530.21	813940.01	5.00	1.70	773.15	84.9	0.1	08:00 - 19:00	11	34	114	91.2	1.013E-01	1.033E-03	7.600E-03	7.600E-03
G18	CH-23 GN	POINT	845822.45	814664.18	5.00	1.05	763.15	79.6	0.04	07:00 - 22:00	15	2	34.2	27.36	5.700E-02	6.078E-05	4.560E-03	4.560E-03
G19	Jaw Crusher 1 [d]	POINT	845815.00	814677.00	5.00	1.90	773.15	30.8	0.1	07:00 - 23:00	16	32	-	168	1.867E-01	9.724E-04	9.333E-03	9.333E-03
G20	Jaw Crusher 2 [d]	POINT	845815.00	814677.00	5.00	1.90	773.15	30.8	0.1	07:00 - 23:00	16	32	-	168	1.867E-01	9.724E-04	9.333E-03	9.333E-03
G21	Jaw Crusher 3 [d]	POINT	845815.00	814677.00	5.00	1.90	773.15	30.8	0.1	07:00 - 23:00	16	32	-	168	1.867E-01	9.724E-04	9.333E-03	9.333E-03
G22	Jaw Crusher 4 [e]	POINT	845815.00	814677.00	5.00	3.80	760.15	115.7	0.089	07:00 - 23:00	16	52	-	261	2.900E-01	1.580E-03	1.450E-02	1.450E-02
G23	Cone Crusher [e]	POINT	845815.00	814677.00	5.00	3.70	848.65	117.6	0.114	07:00 - 23:00	16	66	-	328	3.644E-01	2.006E-03	1.822E-02	1.822E-02
G24	Impact Crusher [e]	POINT	845815.00	814677.00	5.00	3.70	848.65	117.6	0.114	07:00 - 23:00	16	66	-	328	3.644E-01	2.006E-03	1.822E-02	1.822E-02
G25	Screening Machine [e]	POINT	845815.00	814677.00	5.00	1.70	907.00	124.9	0.058	07:00 - 23:00	16	17	-	83	9.222E-02	5.166E-04	6.917E-03	6.917E-03
G26	Generator at TKOSF [f]	POINT	846339.19	813930.62	5.00	2.60	744.15	78.4	0.15	24-hour	24	102.2	500	400	4.444E-01	3.106E-03	2.222E-02	2.222E-02
G27	Generator at NSD [f]	POINT	845952.50	814469.84	5.00	2.80	816.15	122.5	0.16	24-hour	24	161	640	512	5.689E-01	4.892E-03	2.844E-02	2.844E-02
G28	Generator at NSE [f]	POINT	845899.12	814565.34	5.00	2.80	816.15	122.5	0.16	24-hour	24	161	640	512	5.689E-01	4.892E-03	2.844E-02	2.844E-02

Notes:

(a) NOx and RSP emission rates were calculated based on the engine power output and NOx and RSP emission factors from European Union Stage IIIA Standard specified under the Air Pollution Control (Non-road Mobile Machinery)(Emission) Regulation. FSP emission rate was assumed the same as RSP emission rate for conservative assessment.

(b) SO2 emission rate was calculated based on plant fuel consumption and the SO2 emission factor for diesel industrial engines from Table 3.3-1, Section 3.3 (Gasoline and Diesel Industrial Engines), AP-42 Vol 1. With reference to Table 5 of "Exhaust Emissions from Uncontrolled Vehicles and Related Equipment Using Internal Combustion Engines, Part 5: Farm, Construction, and Industrial Engines" published by USEPA, the SO2 emission factors for diesel industrial engines provided in AP-42 were estimated based on a fuel sulphur content of 0.22% for diesel fuel. Therefore, the SO2 emission factors adopted in this assessment have been corrected based on a sulphur content of 0.005% for ULSD in Hong Kong. Energy content of diesel fuel was assumed to be 38.6 MJ/L.

(c) Information for the generators within TKOFB were provided by CEDD. Maximum fuel consumption rate and engine power output of the generators as provided by CEDD were adopted as a conservative assessment. The actual engine power outputs of the generators would be lower than the adopted maximum engine power outputs which were based on equipment specifications.

(d) Jaw crushers 1, 2 and 3 are the old crushers in TKOFB (i.e. have been in use before introducing the new crushers in 2023, and will continue to be used). The emission rates and parameters in the 2023 ERR for these crushers have been adopted.

(e) Jaw crusher 4, cone crusher, impact crusher and screening machine are the new crushers/screener that have been introduced in 2023. The emission rates and parameters of these crushers/screener are provided by CEDD from the crushers/screener manufacturer.

(f) The emission rates and parameters of the generators at TKOSF, NSD, NSE in the 2023 ERR have been adopted.

(g) The elevation of G10, G11, G12, and G15 is based on the topography of the stockpiling areas at their respective locations. An adjustment of +30mPD, +15mPD, +30mPD and +5mPD has been added to base elevation of G10, G11, G12 and G15, respectively.

APPENDIX E TRAFFIC FORCAST IN YEAR 2026

Appendix E – Traffic Forcast in Year 2026

Road ID	Road Name	Hour	Average Speed	Total Flow	PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	HGV9(b)
TKO15	Chun Wang Street	00:00 ~ 01:00	*47*	**39**	19	4	0	0	0	1	1	0	0	0	0	0	0	1	13	0	0	0	0
TKO15		01:00 ~ 02:00	*49*	**11**	4	1	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0
TKO15		02:00 ~ 03:00	*49*	**9**	5	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
TKO15		03:00 ~ 04:00	*49*	**7**	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO15		04:00 ~ 05:00	*49*	**7**	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO15		05:00 ~ 06:00	*49*	**9**	1	3	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
TKO15		06:00 ~ 07:00	*47*	**32**	5	1	0	0	0	1	1	0	0	4	0	0	0	1	17	1	1	0	0
TKO15		07:00 ~ 08:00	*44*	**67**	7	15	0	0	0	3	3	0	0	7	1	3	1	1	20	1	5	0	0
TKO15		08:00 ~ 09:00	*40*	**117**	34	17	0	1	0	15	16	0	3	1	1	3	1	1	17	0	7	0	0
TKO15		09:00 ~ 10:00	*40*	**110**	19	24	0	3	1	15	16	0	1	1	0	0	0	1	19	1	9	0	0
TKO15		10:00 ~ 11:00	*38*	**130**	32	19	0	12	3	13	15	0	1	7	0	0	0	1	21	1	5	0	0
TKO15		11:00 ~ 12:00	*36*	**157**	44	13	0	8	3	24	26	0	0	4	0	0	0	1	20	3	11	0	0
TKO15		12:00 ~ 13:00	*41*	**98**	25	5	0	0	0	16	19	0	1	3	0	0	0	1	21	0	7	0	0
TKO15		13:00 ~ 14:00	*41*	**96**	26	5	0	3	1	15	16	0	1	1	0	1	0	1	19	0	7	0	0
TKO15		14:00 ~ 15:00	*38*	**138**	37	12	0	8	3	17	20	0	0	4	1	3	1	1	22	0	9	0	0
TKO15		15:00 ~ 16:00	*42*	**87**	24	3	0	5	1	9	11	0	0	7	0	1	0	1	20	0	5	0	0
TKO15		16:00 ~ 17:00	*38*	**129**	41	9	0	3	1	12	13	0	0	4	3	8	3	1	24	0	7	0	0
TKO15		17:00 ~ 18:00	*36*	**153**	65	4	0	3	0	12	13	0	7	3	3	5	1	1	28	0	8	0	0
TKO15		18:00 ~ 19:00	*39*	**123**	50	3	0	1	0	7	8	0	0	5	3	7	3	1	28	3	4	0	0
TKO15		19:00 ~ 20:00	*44*	**70**	22	8	0	0	0	3	3	0	0	4	0	0	0	1	25	3	1	0	0
TKO15		20:00 ~ 21:00	*45*	**58**	26	3	0	0	0	0	0	0	0	3	1	3	1	1	19	0	1	0	0
TKO15		21:00 ~ 22:00	*45*	**61**	29	1	0	1	0	3	3	0	0	3	0	0	0	1	19	0	1	0	0
TKO15		22:00 ~ 23:00	*46*	**41**	21	3	0	0	0	0	0	0	0	3	0	0	0	1	13	0	0	0	0
TKO15		23:00 ~ 00:00	*48*	**26**	9	3	0	1	0	0	0	0	0	3	0	1	0	0	8	0	1	0	0
TKO16	Chun Yat Street	00:00 ~ 01:00	*28*	**122**	48	60	0	3	0	1	1	0	0	1	0	0	0	0	8	0	0	0	0
TKO16		01:00 ~ 02:00	*48*	**13**	3	5	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0
TKO16		02:00 ~ 03:00	*47*	**19**	4	13	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
TKO16		03:00 ~ 04:00	*47*	**18**	3	5	0	3	0	1	1	0	0	0	0	0	0	0	4	0	1	0	0
TKO16		04:00 ~ 05:00	*44*	**36**	9	19	0	3	1	1	1	0	1	0	0	0	0	0	0	0	1	0	0
TKO16		05:00 ~ 06:00	*44*	**34**	7	22	0	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
TKO16		06:00 ~ 07:00	*37*	**75**	30	26	0	3	0	0	0	0	0	4	1	3	1	0	4	3	0	0	0
TKO16		07:00 ~ 08:00	*25*	**154**	78	49	0	0	0	0	0	0	0	5	3	7	3	0	7	1	1	0	0
TKO16		08:00 ~ 09:00	*25*	**202**	102	65	0	3	0	5	5	0	1	1	1	4	1	0	7	4	3	0	0
TKO16		09:00 ~ 10:00	*25*	**178**	50	82	0	3	1	8	9	0	1	1	0	1	0	1	13	1	7	0	0
TKO16		10:00 ~ 11:00	*24*	**240**	109	79	0	9	3	7	8	0	0	4	0	0	0	0	5	13	3	0	0
TKO16		11:00 ~ 12:00	*25*	**205**	89	73	0	7	1	5	5	0	1	4	0	0	0	0	8	9	3	0	0
TKO16		12:00 ~ 13:00	*26*	**137**	57	48	0	4	1	4	4	0	1	3	0	0	0	0	9	5	1	0	0
TKO16		13:00 ~ 14:00	*25*	**156**	85	38	0	5	1	4	4	0	3	1	0	1	0	0	9	4	1	0	0
TKO16		14:00 ~ 15:00	*25*	**210**	73	64	0	24	7	7	7	0	5	4	0	1	0	0	12	1	5	0	0
TKO16		15:00 ~ 16:00	*25*	**170**	86	30	0	15	4	4	5	0	4	5	0	1	0	0	11	4	1	0	0
TKO16		16:00 ~ 17:00	*24*	**246**	139	49	0	3	0	1	1	0	9	5	4	9	4	1	13	7	1	0	0
TKO16		17:00 ~ 18:00	*24*	**305**	225	40	0	1	0	1	1	0	7	3	1	3	1	0	11	11	0	0	0
TKO16		18:00 ~ 19:00	*24*	**261**	184	30	0	0	0	1	1	0	3	7	1	3	1	1	17	11	1	0	0
TKO16		19:00 ~ 20:00	*25*	**186**	120	28	0	0	0	3	3	0	0	5	1	3	1	0	12	9	1	0	0
TKO16		20:00 ~ 21:00	*25*	**158**	99	29	0	1	0	0	0	0	0	3	1	3	1	1	16	4	0	0	0
TKO16		21:00 ~ 22:00	*35*	**84**	48	22	0	0	0	1	1	0	0	3	0	0	0	0	9	0	0	0	0
TKO16		22:00 ~ 23:00	*36*	**78**	52	9	0	0	0	1	1	0	0	3	0	0	0	0	11	0	1	0	0
TKO16		23:00 ~ 00:00	*33*	**94**	79	5	0	1	0	0	0	0	0	3	0	0	0	0	5	1	0	0	0
TKO17	Chun Choi Street	00:00 ~ 01:00	*48*	**9**	5	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
TKO17		01:00 ~ 02:00	*49*	**3**	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO17		02:00 ~ 03:00	*50*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO17		03:00 ~ 04:00	*50*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO17		04:00 ~ 05:00	*49*	**4**	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO17		05:00 ~ 06:00	*49*	**4**	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO17		06:00 ~ 07:00	*47*	**17**	1	3	0	0	0	0	0	0	0	0	0	0	0	0	12	1	0	0	0
TKO17		07:00 ~ 08:00	*44*	**32**	1	8	0	0	0	3	4	0	1	0	0	0	0	1	13	0	1	0	0
TKO17		08:00 ~ 09:00	*42*	**47**	20	8	0	0	0	1	1	0	0	0	0	1	0	0	12	1	3	0	0
TKO17		09:00 ~ 10:00	*36*	**78**	25	12	0	4	1	7	8	0	0	0	0	1	0	0	11	1	8	0	0
TKO17		10:00 ~ 11:00	*34*	**88**	33	13	0	9	3	4	5	0	0	3	0	0	0	1	16	0	1	0	0
TKO17		11:00 ~ 12:00	*36*	**79**	32	17	0	7	1	3	4	0	0	0	0	0	0	1	13	0	1	0	0
TKO17		12:00 ~ 13:00	*38*	**66**	24	5	0	3	0	7	8	0	0	0	0	0	0	1	15	0	3	0	0
TKO17		13:00 ~ 14:00	*40*	**55**	19	8	0	3	1	4	5	0	0	0	0	0	0	1	13	0	1	0	0
TKO17		14:00 ~ 15:00	*34*	**89**	21	12	0	16	4	5	5	0	1	0	0	1	0	1	17	1	5	0	0
TKO17		15:00 ~ 16:00	*37*	**71**	24	12	0	5	1	5	5	0	0	0	0	1	0	1	13	1	3	0	0
TKO17		16:00 ~ 17:00	*35*	**83**	29	15	0	4	1	5	7	0	0	0	0	1	0	1	13	4	3	0	0
TKO17		17:00 ~ 18:00	*30*	**111**	69	11	0	3	1	1	1	0	0	0	0	1	0	1	19	4	0	0	0
TKO17		18:00 ~ 19:00	*39*	**63**	37	3	0	0	0	1	1	0	0	0	0	1	0	1	17	1	1	0	0
TKO17		19:00 ~ 20:00	*41*	**48**	21	4	0	0	0	0	0	0	1	1	0	0	0	1	17	3	0	0	0
TKO17		20:00 ~ 21:00	*46*	**24**	11	1	0	0	0	0	0	0	0	0	0	1	0	0	11	0	0	0	0
TKO17		21:00 ~ 22:00	*47*	**16**	7	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
TKO17		22:00 ~ 23:00	*46*	**23**	15	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0
TKO17		23:00 ~ 00:00	*46*	**21**	12	4	0	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
TKO19	Wan Po Road	00:00 ~ 01:00	*70*	**73**	46	24	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
TKO19		01:00 ~ 02:00	*70*	**25**	7	13	0	0	0	1	1	0	0	0	0	0	0	0	3	0	0	0	0
TKO19		02:00 ~ 03:00	*70*	**6**	1	3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
TKO19		03:00 ~ 04:00	*70*	**17**	8	5	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0
TKO19		04:00 ~ 05:00	*70*	**13**	4	7	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
TKO19		05:00 ~ 06:00	*70*	**39**	9	12	0	3	1	1	1	0	0	0	0	0	0	0	12	0	0	0	0
TKO19		06:00 ~ 07:00	*70*	**72**	21	26	0	0	0	3	3	0	1	0	1	3	1	0	11	1	1	0	0
TKO19		07:00 ~ 08:00	*69*	**314**	37	26	0	1	0	84	77	0	4	5	8	19	7	0	9	3	34	0	0
TKO19		08:00 ~ 09:00	*67*	**621**	117	40	0	5	1	181	181	0	3	1	3	6	3	0	5	0	75	0	0
TKO19		09:00 ~ 10:00	*66*	**858**	133	27	0	9	1	274	291	0	0	0	0	0	0	0	5	2	116	0	0
TKO19		10:00 ~ 11:00	*66*	**903**	113	37	0	6	2	297	316	0	1	1	0	0	0	0	4	0	126	0	0
TKO19		11:00 ~ 12:00	*66*	**869**	190	17	0	7	2	259	273	0	1	0	0	0	0	0	5	5	110	0	0
TKO19		12:00 ~ 13:00	*67*	**788**	184	11	0	3	0	237	247	0	1	0	0	1	0	0	4	1	99	0	0
TKO19		13:00 ~ 14:00	*67*	**779**	132	19	0	2	0	252	263	0	0	0	0	0	0	0	4	0	107	0	0
TKO19		14:00 ~ 15:00	*67*	**814**	117	11	0	6	1	273	285	0	0	0	0	0	0	0	3	3	115	0	0
TKO19		15:00 ~ 16:00	*67*	**775**	103	8	0	7	2	262	275	0	3	1	0	0	0	0	3	1	110	0	0
TKO19		16:00 ~ 17:00	*67*	**696**	89	3	0	12	3	236	247	0	1	0	1	3	1	0	0	0	100	0	0
TKO19		17:00 ~ 18:00	*67*	**698**	164	9	0	16	4	199	201	0	6	0	2	4	1	0	0	10	82	0	0
TKO19		18:00 ~ 19:00	*68*	**431**	87	9	0	15	5	128	123	0	2	0	2	4	2	0	0	5	49	0	0
TKO19		19:00 ~ 20:00	*69*	**123**	57	9	0	1	0	23	23	0	0	0	0	0	0	0	0	1	9	0	0
TKO19		20:00 ~ 21:00	*70*	**89**	58	5	0	1	0	7	7	0	0	0	0	1	0	0	7	0	3	0	0
TKO19		21:00 ~ 22:00	*70*	**55**	41	1	0	1	0	2	2	0	0	0	0	0	0	0	4	3	1	0	0
TKO19		22:00 ~ 23:00	*70*	**43**	23	7	0	1	0	2	2	0	1	0	0	1	0	0	3	3	0	0	0
TKO19		23:00 ~ 00:00	*70*	**23**	21	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
TKO20	Chun Wang Street	00:00 ~ 01:00	*40*	**112**	40	56	0	3	0	0	0	0	0	1	0	0	0	0	12	0	0	0	0
TKO20		01:00 ~ 02:00	*48*	**20**	7	4	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0
TKO20		02:00 ~ 03:00	*48*	**21**	4	16	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TKO20		03:00 ~ 04:00	*48*	**23**	4	5	0	3	0	3	3	0	0	0	0	0	0	0	4	0	1	0	0
TKO20		04:00 ~ 05:00	*47*	**36**	9	19	0	3	1	1	1	0	1	0	0	0	0	0	0	0	1	0	0
TKO20		05:00 ~ 06:00	*46*	**40**	7	25	0	1	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
TKO20		06:00 ~ 07:00	*43*	**79**	29	25	0	3	0	1	1	0	0	0	1	3	1	0	11	3	1	0	0
TKO20		07:00 ~ 08:00	*36*	**158**	75	50	0	0	0	3	3	0	1	1	1	4	1	0	9	3	7	0	0
TKO20		08:00 ~ 09:00	*28*	**246**	111	61	0	3	1	17	20	0	1	0	1	4	1	1	13	3	9	0	0
TKO20		09:00 ~ 10:00	*29*	**240**	57	85	0	11	3	24	28	0	0	0	0	1	0	0	11	1	19	0	0
TKO20		10:00 ~ 11:00	*25*	**283**	111	69	1	26	7	19	20	0	1	3	0	0	0	0	3	15	8	0	0
TKO20		11:00 ~ 12:00	*27*	**254**	94	62	0	16	4	24	26	0	1	0	0	0	0	0	4	12	11	0	0
TKO20		12:00 ~ 13:00	*34*	**179**	64	48	0	5	1	20	22	0	3	0	0	0	0	0	3	5	8	0	0
TKO20		13:00 ~ 14:00	*34*	**183**	81	28	0	12	3	19	20	0	3	0	0	1	0	0	4	4	8	0	0
TKO20		14:00 ~ 15:00	*28*	**251**	87	48	1	30	8	24	26	0	5	0	0	1	0	0	4	0	17	0	0
TKO20		15:00 ~ 16:00	*34*	**178**	73	26	0	19	5	15	16	0	4	1	0	1	0	0	5	5	8	0	0
TKO20		16:00 ~ 17:00	*27*	**256**	127	44	0	9	3	17	20	0	9	1	0	1	0	0	8	8	9	0	0
TKO20		17:00 ~ 18:00	*25*	**301**	184	30	0	7	1	13	15	0	5	3	3	8	3	0	9	12	8	0	0
TKO20		18:00 ~ 19:00	*25*	**286**	181	30	0	1	0	11	12	0	3	4	4	8	3	1	16	7	5	0	0
TKO20		19:00 ~ 20:00	*36*	**152**	93	26	0	0	0	3	3	0	1	0	1	3	1	0	11	9	1	0	0
TKO20		20:00 ~ 21:00	*38*	**134**	91	25	0	1	0	0	0	0	0	0	0	1	0	0	11	4	1	0	0
TKO20		21:00 ~ 22:00	*44*	**70**	38	21	0	1	0	1	1	0	0	0	0	0	0	0	7	0	1	0	0
TKO20		22:00 ~ 23:00	*45*	**60**	42	9	0	0	0	0	0	0	0	0	0	0	0	0	8	1	0	0	0
TKO20		23:00 ~ 00:00	*43*	**80**	66	7	0	1	0	0	0	0	0	0	0	1	0	0	3	1	1	0	0
TKO21	Wan Po Road	00:00 ~ 01:00	*70*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO21		01:00 ~ 02:00	*70*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO21		02:00 ~ 03:00	*70*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO21		03:00 ~ 04:00	*70*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO21		04:00 ~ 05:00	*70*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO21		05:00 ~ 06:00	*70*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO21		06:00 ~ 07:00	*70*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO21		07:00 ~ 08:00	*69*	**180**	0	0	0	0	0	79	70	0	0	0	0	0	0	0	0	0	31	0	0
TKO21		08:00 ~ 09:00	*68*	**460**	84	13	0	1	0	150	148	0	2	0	0	1	0	0	0	0	61	0	0
TKO21		09:00 ~ 10:00	*67*	**705**	81	7	0	2	0	248	261	0	0	0	0	0	0	0	0	2	104	0	0
TKO21		10:00 ~ 11:00	*67*	**729**	53	4	0	6	2	268	283	0	0	0	0	0	0	0	0	0	113	0	0
TKO21		11:00 ~ 12:00	*67*	**674**	80	2	0	2	1	238	249	0	0	0	0	0	0	0	0	2	100	0	0
TKO21		12:00 ~ 13:00	*68*	**589**	62	2	0	0	0	214	221	0	0	0	0	0	0	0	0	1	89	0	0
TKO21		13:00 ~ 14:00	*67*	**634**	67	2	0	2	0	229	237	0	0	0	0	0	0	0	0	0	97	0	0
TKO21		14:00 ~ 15:00	*67*	**656**	46	0	0	5	1	246	255	0	0	0	0	0	0	0	0	0	103	0	0
TKO21		15:00 ~ 16:00	*67*	**623**	41	1	0	2	1	235	245	0	0	0	0	0	0	0	0	0	98	0	0
TKO21		16:00 ~ 17:00	*68*	**595**	45	0	0	1	0	223	232	0	0	0	0	0	0	0	0	0	94	0	0
TKO21		17:00 ~ 18:00	*68*	**538**	83	4	0	5	1	177	179	0	2	0	2	4	1	0	0	7	73	0	0
TKO21		18:00 ~ 19:00	*68*	**387**	75	6	0	2	1	124	119	0	1	0	2	4	2	0	0	4	47	0	0
TKO21		19:00 ~ 20:00	*70*	**65**	17	0	0	0	0	20	20	0	0	0	0	0	0	0	0	0	8	0	0
TKO21		20:00 ~ 21:00	*70*	**14**	2	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	2	0	0
TKO21		21:00 ~ 22:00	*70*	**6**	1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	1	0	0
TKO21		22:00 ~ 23:00	*70*	**3**	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
TKO21		23:00 ~ 00:00	*70*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix E - Traffic Forcast in Year 2026

Road ID	Road Name	Hour	Average Speed	Total Flow	PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	HGV9(b)
TKO22	Roads to SENTX	00:00 ~ 01:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		01:00 ~ 02:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		02:00 ~ 03:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		03:00 ~ 04:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		04:00 ~ 05:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		05:00 ~ 06:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		06:00 ~ 07:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		07:00 ~ 08:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		08:00 ~ 09:00	10	30	0	0	0	0	0	12	13	0	0	0	0	0	0	0	0	0	5	0	0
TKO22		09:00 ~ 10:00	10	94	0	0	0	0	0	36	42	0	0	0	0	0	0	0	0	0	16	0	0
TKO22		10:00 ~ 11:00	10	101	0	0	0	0	0	39	45	0	0	0	0	0	0	0	0	0	17	0	0
TKO22		11:00 ~ 12:00	10	99	0	0	0	0	0	38	44	0	0	0	0	0	0	0	0	0	17	0	0
TKO22		12:00 ~ 13:00	10	88	0	0	0	0	0	34	39	0	0	0	0	0	0	0	0	0	15	0	0
TKO22		13:00 ~ 14:00	10	91	0	0	0	0	0	35	40	0	0	0	0	0	0	0	0	0	16	0	0
TKO22		14:00 ~ 15:00	10	100	0	0	0	0	0	39	44	0	0	0	0	0	0	0	0	0	17	0	0
TKO22		15:00 ~ 16:00	10	101	0	0	0	0	0	39	45	0	0	0	0	0	0	0	0	0	17	0	0
TKO22		16:00 ~ 17:00	10	109	0	0	0	0	0	42	48	0	0	0	0	0	0	0	0	0	19	0	0
TKO22		17:00 ~ 18:00	10	77	0	0	0	0	0	30	34	0	0	0	0	0	0	0	0	0	13	0	0
TKO22		18:00 ~ 19:00	10	61	0	0	0	0	0	25	28	0	0	0	0	0	0	0	0	0	8	0	0
TKO22		19:00 ~ 20:00	10	30	0	0	0	0	0	12	13	0	0	0	0	0	0	0	0	0	5	0	0
TKO22		20:00 ~ 21:00	10	12	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	2	0	0
TKO22		21:00 ~ 22:00	10	5	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	1	0	0
TKO22		22:00 ~ 23:00	10	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
TKO22		23:00 ~ 00:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO23	Roads to Proposed CBP	00:00 ~ 01:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO23		01:00 ~ 02:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO23		02:00 ~ 03:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO23		03:00 ~ 04:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO23		04:00 ~ 05:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO23		05:00 ~ 06:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO23		06:00 ~ 07:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKO23		07:00 ~ 08:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		08:00 ~ 09:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		09:00 ~ 10:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		10:00 ~ 11:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		11:00 ~ 12:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		12:00 ~ 13:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		13:00 ~ 14:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		14:00 ~ 15:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		15:00 ~ 16:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		16:00 ~ 17:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		17:00 ~ 18:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		18:00 ~ 19:00	10	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	0	0
TKO23		19:00 ~ 20:00	10	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0
TKO23		20:00 ~ 21:00	10	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0
TKO23		21:00 ~ 22:00	10	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0
TKO23		22:00 ~ 23:00	10	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0
TKO23		23:00 ~ 00:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_1-6,8	Proposed CBP Internal Road	00:00 ~ 01:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_1-6,8		01:00 ~ 02:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_1-6,8		02:00 ~ 03:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_1-6,8		03:00 ~ 04:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_1-6,8		04:00 ~ 05:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_1-6,8		05:00 ~ 06:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_1-6,8		06:00 ~ 07:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_1-6,8		07:00 ~ 08:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		08:00 ~ 09:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		09:00 ~ 10:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		10:00 ~ 11:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		11:00 ~ 12:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		12:00 ~ 13:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		13:00 ~ 14:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		14:00 ~ 15:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		15:00 ~ 16:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		16:00 ~ 17:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		17:00 ~ 18:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		18:00 ~ 19:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		19:00 ~ 20:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		20:00 ~ 21:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		21:00 ~ 22:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		22:00 ~ 23:00	10	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0
CVEH14_1-6,8		23:00 ~ 00:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_7	Proposed CBP Internal Road	00:00 ~ 01:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_7		01:00 ~ 02:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_7		02:00 ~ 03:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_7		03:00 ~ 04:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_7		04:00 ~ 05:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_7		05:00 ~ 06:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_7		06:00 ~ 07:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH14_7		07:00 ~ 08:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		08:00 ~ 09:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		09:00 ~ 10:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		10:00 ~ 11:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		11:00 ~ 12:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		12:00 ~ 13:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		13:00 ~ 14:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		14:00 ~ 15:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		15:00 ~ 16:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		16:00 ~ 17:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		17:00 ~ 18:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		18:00 ~ 19:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		19:00 ~ 20:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		20:00 ~ 21:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		21:00 ~ 22:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		22:00 ~ 23:00	10	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
CVEH14_7		23:00 ~ 00:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9	Proposed CBP Internal Road	00:00 ~ 01:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		01:00 ~ 02:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		02:00 ~ 03:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		03:00 ~ 04:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		04:00 ~ 05:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		05:00 ~ 06:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		06:00 ~ 07:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		07:00 ~ 08:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		08:00 ~ 09:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		09:00 ~ 10:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		10:00 ~ 11:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		11:00 ~ 12:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		12:00 ~ 13:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		13:00 ~ 14:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		14:00 ~ 15:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		15:00 ~ 16:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		16:00 ~ 17:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		17:00 ~ 18:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		18:00 ~ 19:00	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0
CVEH15_1-4,9		19:00 ~ 20:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		20:00 ~ 21:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		21:00 ~ 22:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		22:00 ~ 23:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_1-4,9		23:00 ~ 00:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8	Proposed CBP Internal Road	00:00 ~ 01:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		01:00 ~ 02:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		02:00 ~ 03:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		03:00 ~ 04:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		04:00 ~ 05:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		05:00 ~ 06:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		06:00 ~ 07:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		07:00 ~ 08:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		08:00 ~ 09:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		09:00 ~ 10:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		10:00 ~ 11:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		11:00 ~ 12:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		12:00 ~ 13:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		13:00 ~ 14:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		14:00 ~ 15:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		15:00 ~ 16:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		16:00 ~ 17:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		17:00 ~ 18:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		18:00 ~ 19:00	10	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0
CVEH15_5-8		19:00 ~ 20:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		20:00 ~ 21:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		21:00 ~ 22:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		22:00 ~ 23:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH15_5-8		23:00 ~ 00:00	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix E – Traffic Forcast in Year 2026

Road ID	Road Name	Hour	Average Speed	Total Flow	PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	HGV9(b)
CVEH16_1-2	Proposed CBP Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH16_1-2		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH16_1-2		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH16_1-2		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH16_1-2		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH16_1-2		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH16_1-2		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVEH16_1-2		07:00 ~ 08:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		08:00 ~ 09:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		09:00 ~ 10:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		10:00 ~ 11:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		11:00 ~ 12:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		12:00 ~ 13:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		13:00 ~ 14:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		14:00 ~ 15:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		15:00 ~ 16:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		16:00 ~ 17:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		17:00 ~ 18:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		18:00 ~ 19:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		19:00 ~ 20:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		20:00 ~ 21:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		21:00 ~ 22:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		22:00 ~ 23:00	*10*	**6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
CVEH16_1-2		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		08:00 ~ 09:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		09:00 ~ 10:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		10:00 ~ 11:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		11:00 ~ 12:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		12:00 ~ 13:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		13:00 ~ 14:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		14:00 ~ 15:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		15:00 ~ 16:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		16:00 ~ 17:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		17:00 ~ 18:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		18:00 ~ 19:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		19:00 ~ 20:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		20:00 ~ 21:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		21:00 ~ 22:00	*10*	**65**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0
R1a		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1a		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		08:00 ~ 09:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		09:00 ~ 10:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		10:00 ~ 11:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		11:00 ~ 12:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		12:00 ~ 13:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		13:00 ~ 14:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		14:00 ~ 15:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		15:00 ~ 16:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		16:00 ~ 17:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		17:00 ~ 18:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		18:00 ~ 19:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		19:00 ~ 20:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		20:00 ~ 21:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		21:00 ~ 22:00	*10*	**68**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	0	3
R1b		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1b		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		08:00 ~ 09:00	*10*	**141**	0	0	0	0	0	55	62	0	0	0	0	0	0	0	0	0	24	0	0
R2a		09:00 ~ 10:00	*10*	**331**	0	0	0	0	0	129	146	0	0	0	0	0	0	0	0	0	56	0	0
R2a		10:00 ~ 11:00	*10*	**375**	0	0	0	0	0	146	165	0	0	0	0	0	0	0	0	0	64	0	0
R2a		11:00 ~ 12:00	*10*	**300**	0	0	0	0	0	117	132	0	0	0	0	0	0	0	0	0	51	0	0
R2a		12:00 ~ 13:00	*10*	**248**	0	0	0	0	0	97	109	0	0	0	0	0	0	0	0	0	42	0	0
R2a		13:00 ~ 14:00	*10*	**284**	0	0	0	0	0	111	124	0	0	0	0	0	0	0	0	0	49	0	0
R2a		14:00 ~ 15:00	*10*	**316**	0	0	0	0	0	124	138	0	0	0	0	0	0	0	0	0	54	0	0
R2a		15:00 ~ 16:00	*10*	**289**	0	0	0	0	0	113	127	0	0	0	0	0	0	0	0	0	49	0	0
R2a		16:00 ~ 17:00	*10*	**252**	0	0	0	0	0	98	111	0	0	0	0	0	0	0	0	0	43	0	0
R2a		17:00 ~ 18:00	*10*	**164**	0	0	0	0	0	64	72	0	0	0	0	0	0	0	0	0	28	0	0
R2a		18:00 ~ 19:00	*10*	**41**	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	7	0	0
R2a		19:00 ~ 20:00	*10*	**10**	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	2	0	0
R2a		20:00 ~ 21:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		21:00 ~ 22:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2a		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		08:00 ~ 09:00	*10*	**141**	0	0	0	0	0	55	62	0	0	0	0	0	0	0	0	0	24	0	0
R2b		09:00 ~ 10:00	*10*	**331**	0	0	0	0	0	129	146	0	0	0	0	0	0	0	0	0	56	0	0
R2b		10:00 ~ 11:00	*10*	**375**	0	0	0	0	0	146	165	0	0	0	0	0	0	0	0	0	64	0	0
R2b		11:00 ~ 12:00	*10*	**300**	0	0	0	0	0	117	132	0	0	0	0	0	0	0	0	0	51	0	0
R2b		12:00 ~ 13:00	*10*	**248**	0	0	0	0	0	97	109	0	0	0	0	0	0	0	0	0	42	0	0
R2b		13:00 ~ 14:00	*10*	**284**	0	0	0	0	0	111	124	0	0	0	0	0	0	0	0	0	49	0	0
R2b		14:00 ~ 15:00	*10*	**316**	0	0	0	0	0	124	138	0	0	0	0	0	0	0	0	0	54	0	0
R2b		15:00 ~ 16:00	*10*	**289**	0	0	0	0	0	113	127	0	0	0	0	0	0	0	0	0	49	0	0
R2b		16:00 ~ 17:00	*10*	**252**	0	0	0	0	0	98	111	0	0	0	0	0	0	0	0	0	43	0	0
R2b		17:00 ~ 18:00	*10*	**164**	0	0	0	0	0	64	72	0	0	0	0	0	0	0	0	0	28	0	0
R2b		18:00 ~ 19:00	*10*	**41**	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	7	0	0
R2b		19:00 ~ 20:00	*10*	**10**	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	2	0	0
R2b		20:00 ~ 21:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		21:00 ~ 22:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2b		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		08:00 ~ 09:00	*10*	**141**	0	0	0	0	0	55	62	0	0	0	0	0	0	0	0	0	24	0	0
R2c		09:00 ~ 10:00	*10*	**331**	0	0	0	0	0	129	146	0	0	0	0	0	0	0	0	0	56	0	0
R2c		10:00 ~ 11:00	*10*	**375**	0	0	0	0	0	146	165	0	0	0	0	0	0	0	0	0	64	0	0
R2c		11:00 ~ 12:00	*10*	**300**	0	0	0	0	0	117	132	0	0	0	0	0	0	0	0	0	51	0	0
R2c		12:00 ~ 13:00	*10*	**248**	0	0	0	0	0	97	109	0	0	0	0	0	0	0	0	0	42	0	0
R2c		13:00 ~ 14:00	*10*	**284**	0	0	0	0	0	111	124	0	0	0	0	0	0	0	0	0	49	0	0
R2c		14:00 ~ 15:00	*10*	**316**	0	0	0	0	0	124	138	0	0	0	0	0	0	0	0	0	54	0	0
R2c		15:00 ~ 16:00	*10*	**289**	0	0	0	0	0	113	127	0	0	0	0	0	0	0	0	0	49	0	0
R2c		16:00 ~ 17:00	*10*	**252**	0	0	0	0	0	98	111	0	0	0	0	0	0	0	0	0	43	0	0
R2c		17:00 ~ 18:00	*10*	**164**	0	0	0	0	0	64	72	0	0	0	0	0	0	0	0	0	28	0	0
R2c		18:00 ~ 19:00	*10*	**41**	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	7	0	0
R2c		19:00 ~ 20:00	*10*	**10**	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	2	0	0
R2c		20:00 ~ 21:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		21:00 ~ 22:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2c		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix E - Traffic Forcast in Year 2026

Road ID	Road Name	Hour	Average Speed	Total Flow	PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	HGV9(b)
R2d	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		08:00 ~ 09:00	*10*	**141**	0	0	0	0	0	55	62	0	0	0	0	0	0	0	0	0	24	0	0
R2d		09:00 ~ 10:00	*10*	**331**	0	0	0	0	0	129	146	0	0	0	0	0	0	0	0	0	56	0	0
R2d		10:00 ~ 11:00	*10*	**375**	0	0	0	0	0	146	165	0	0	0	0	0	0	0	0	0	64	0	0
R2d		11:00 ~ 12:00	*10*	**300**	0	0	0	0	0	117	132	0	0	0	0	0	0	0	0	0	51	0	0
R2d		12:00 ~ 13:00	*10*	**248**	0	0	0	0	0	97	109	0	0	0	0	0	0	0	0	0	42	0	0
R2d		13:00 ~ 14:00	*10*	**284**	0	0	0	0	0	111	124	0	0	0	0	0	0	0	0	0	49	0	0
R2d		14:00 ~ 15:00	*10*	**316**	0	0	0	0	0	124	138	0	0	0	0	0	0	0	0	0	54	0	0
R2d		15:00 ~ 16:00	*10*	**289**	0	0	0	0	0	113	127	0	0	0	0	0	0	0	0	0	49	0	0
R2d		16:00 ~ 17:00	*10*	**252**	0	0	0	0	0	98	111	0	0	0	0	0	0	0	0	0	43	0	0
R2d		17:00 ~ 18:00	*10*	**164**	0	0	0	0	0	64	72	0	0	0	0	0	0	0	0	0	28	0	0
R2d		18:00 ~ 19:00	*10*	**41**	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	7	0	0
R2d		19:00 ~ 20:00	*10*	**10**	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	2	0	0
R2d		20:00 ~ 21:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		21:00 ~ 22:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2d		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		08:00 ~ 09:00	*10*	**141**	0	0	0	0	0	55	62	0	0	0	0	0	0	0	0	0	24	0	0
R2e		09:00 ~ 10:00	*10*	**331**	0	0	0	0	0	129	146	0	0	0	0	0	0	0	0	0	56	0	0
R2e		10:00 ~ 11:00	*10*	**375**	0	0	0	0	0	146	165	0	0	0	0	0	0	0	0	0	64	0	0
R2e		11:00 ~ 12:00	*10*	**300**	0	0	0	0	0	117	132	0	0	0	0	0	0	0	0	0	51	0	0
R2e		12:00 ~ 13:00	*10*	**248**	0	0	0	0	0	97	109	0	0	0	0	0	0	0	0	0	42	0	0
R2e		13:00 ~ 14:00	*10*	**284**	0	0	0	0	0	111	124	0	0	0	0	0	0	0	0	0	49	0	0
R2e		14:00 ~ 15:00	*10*	**316**	0	0	0	0	0	124	138	0	0	0	0	0	0	0	0	0	54	0	0
R2e		15:00 ~ 16:00	*10*	**289**	0	0	0	0	0	113	127	0	0	0	0	0	0	0	0	0	49	0	0
R2e		16:00 ~ 17:00	*10*	**252**	0	0	0	0	0	98	111	0	0	0	0	0	0	0	0	0	43	0	0
R2e		17:00 ~ 18:00	*10*	**164**	0	0	0	0	0	64	72	0	0	0	0	0	0	0	0	0	28	0	0
R2e		18:00 ~ 19:00	*10*	**41**	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	7	0	0
R2e		19:00 ~ 20:00	*10*	**10**	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	2	0	0
R2e		20:00 ~ 21:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		21:00 ~ 22:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2e		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		08:00 ~ 09:00	*10*	**141**	0	0	0	0	0	55	62	0	0	0	0	0	0	0	0	0	24	0	0
R2f		09:00 ~ 10:00	*10*	**331**	0	0	0	0	0	129	146	0	0	0	0	0	0	0	0	0	56	0	0
R2f		10:00 ~ 11:00	*10*	**375**	0	0	0	0	0	146	165	0	0	0	0	0	0	0	0	0	64	0	0
R2f		11:00 ~ 12:00	*10*	**300**	0	0	0	0	0	117	132	0	0	0	0	0	0	0	0	0	51	0	0
R2f		12:00 ~ 13:00	*10*	**248**	0	0	0	0	0	97	109	0	0	0	0	0	0	0	0	0	42	0	0
R2f		13:00 ~ 14:00	*10*	**284**	0	0	0	0	0	111	124	0	0	0	0	0	0	0	0	0	49	0	0
R2f		14:00 ~ 15:00	*10*	**316**	0	0	0	0	0	124	138	0	0	0	0	0	0	0	0	0	54	0	0
R2f		15:00 ~ 16:00	*10*	**289**	0	0	0	0	0	113	127	0	0	0	0	0	0	0	0	0	49	0	0
R2f		16:00 ~ 17:00	*10*	**252**	0	0	0	0	0	98	111	0	0	0	0	0	0	0	0	0	43	0	0
R2f		17:00 ~ 18:00	*10*	**164**	0	0	0	0	0	64	72	0	0	0	0	0	0	0	0	0	28	0	0
R2f		18:00 ~ 19:00	*10*	**41**	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	7	0	0
R2f		19:00 ~ 20:00	*10*	**10**	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	2	0	0
R2f		20:00 ~ 21:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		21:00 ~ 22:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2f		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		08:00 ~ 09:00	*10*	**141**	0	0	0	0	0	55	62	0	0	0	0	0	0	0	0	0	24	0	0
R3		09:00 ~ 10:00	*10*	**331**	0	0	0	0	0	129	146	0	0	0	0	0	0	0	0	0	56	0	0
R3		10:00 ~ 11:00	*10*	**375**	0	0	0	0	0	146	165	0	0	0	0	0	0	0	0	0	64	0	0
R3		11:00 ~ 12:00	*10*	**300**	0	0	0	0	0	117	132	0	0	0	0	0	0	0	0	0	51	0	0
R3		12:00 ~ 13:00	*10*	**248**	0	0	0	0	0	97	109	0	0	0	0	0	0	0	0	0	42	0	0
R3		13:00 ~ 14:00	*10*	**284**	0	0	0	0	0	111	124	0	0	0	0	0	0	0	0	0	49	0	0
R3		14:00 ~ 15:00	*10*	**316**	0	0	0	0	0	124	138	0	0	0	0	0	0	0	0	0	54	0	0
R3		15:00 ~ 16:00	*10*	**289**	0	0	0	0	0	113	127	0	0	0	0	0	0	0	0	0	49	0	0
R3		16:00 ~ 17:00	*10*	**252**	0	0	0	0	0	98	111	0	0	0	0	0	0	0	0	0	43	0	0
R3		17:00 ~ 18:00	*10*	**164**	0	0	0	0	0	64	72	0	0	0	0	0	0	0	0	0	28	0	0
R3		18:00 ~ 19:00	*10*	**41**	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	7	0	0
R3		19:00 ~ 20:00	*10*	**10**	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	2	0	0
R3		20:00 ~ 21:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		21:00 ~ 22:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R3		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		08:00 ~ 09:00	*10*	**141**	0	0	0	0	0	55	62	0	0	0	0	0	0	0	0	0	24	0	0
R4		09:00 ~ 10:00	*10*	**331**	0	0	0	0	0	129	146	0	0	0	0	0	0	0	0	0	56	0	0
R4		10:00 ~ 11:00	*10*	**375**	0	0	0	0	0	146	165	0	0	0	0	0	0	0	0	0	64	0	0
R4		11:00 ~ 12:00	*10*	**300**	0	0	0	0	0	117	132	0	0	0	0	0	0	0	0	0	51	0	0
R4		12:00 ~ 13:00	*10*	**248**	0	0	0	0	0	97	109	0	0	0	0	0	0	0	0	0	42	0	0
R4		13:00 ~ 14:00	*10*	**284**	0	0	0	0	0	111	124	0	0	0	0	0	0	0	0	0	49	0	0
R4		14:00 ~ 15:00	*10*	**316**	0	0	0	0	0	124	138	0	0	0	0	0	0	0	0	0	54	0	0
R4		15:00 ~ 16:00	*10*	**289**	0	0	0	0	0	113	127	0	0	0	0	0	0	0	0	0	49	0	0
R4		16:00 ~ 17:00	*10*	**252**	0	0	0	0	0	98	111	0	0	0	0	0	0	0	0	0	43	0	0
R4		17:00 ~ 18:00	*10*	**164**	0	0	0	0	0	64	72	0	0	0	0	0	0	0	0	0	28	0	0
R4		18:00 ~ 19:00	*10*	**41**	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	7	0	0
R4		19:00 ~ 20:00	*10*	**10**	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	2	0	0
R4		20:00 ~ 21:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		21:00 ~ 22:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R4		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5		07:00 ~ 08:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		08:00 ~ 09:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		09:00 ~ 10:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		10:00 ~ 11:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		11:00 ~ 12:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		12:00 ~ 13:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		13:00 ~ 14:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		14:00 ~ 15:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		15:00 ~ 16:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		16:00 ~ 17:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		17:00 ~ 18:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		18:00 ~ 19:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		19:00 ~ 20:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		20:00 ~ 21:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		21:00 ~ 22:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		22:00 ~ 23:00	*10*	**172**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
R5		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix E – Traffic Forcast in Year 2026

Road ID	Road Name	Hour	Average Speed	Total Flow	PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	HGV9(b)
R6	TKOFB Internal Road	00:00 ~ 01:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R6		01:00 ~ 02:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R6		02:00 ~ 03:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R6		03:00 ~ 04:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R6		04:00 ~ 05:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R6		05:00 ~ 06:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R6		06:00 ~ 07:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R6		07:00 ~ 08:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		08:00 ~ 09:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		09:00 ~ 10:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		10:00 ~ 11:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		11:00 ~ 12:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		12:00 ~ 13:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		13:00 ~ 14:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		14:00 ~ 15:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		15:00 ~ 16:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		16:00 ~ 17:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		17:00 ~ 18:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		18:00 ~ 19:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		19:00 ~ 20:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		20:00 ~ 21:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		21:00 ~ 22:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		22:00 ~ 23:00	*10*	**197**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
R6		23:00 ~ 00:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R7	TKOFB Internal Road	00:00 ~ 01:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R7		01:00 ~ 02:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R7		02:00 ~ 03:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R7		03:00 ~ 04:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R7		04:00 ~ 05:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R7		05:00 ~ 06:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R7		06:00 ~ 07:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R7		07:00 ~ 08:00	*10*	**214**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214
R7		08:00 ~ 09:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		09:00 ~ 10:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		10:00 ~ 11:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		11:00 ~ 12:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		12:00 ~ 13:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		13:00 ~ 14:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		14:00 ~ 15:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		15:00 ~ 16:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		16:00 ~ 17:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		17:00 ~ 18:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		18:00 ~ 19:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		19:00 ~ 20:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		20:00 ~ 21:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		21:00 ~ 22:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R7		22:00 ~ 23:00	*10*	**214**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214
R7		23:00 ~ 00:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R8	TKOFB Internal Road	00:00 ~ 01:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R8		01:00 ~ 02:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R8		02:00 ~ 03:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R8		03:00 ~ 04:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R8		04:00 ~ 05:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R8		05:00 ~ 06:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R8		06:00 ~ 07:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R8		07:00 ~ 08:00	*10*	**214**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214
R8		08:00 ~ 09:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		09:00 ~ 10:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		10:00 ~ 11:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		11:00 ~ 12:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		12:00 ~ 13:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		13:00 ~ 14:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		14:00 ~ 15:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		15:00 ~ 16:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		16:00 ~ 17:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		17:00 ~ 18:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		18:00 ~ 19:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		19:00 ~ 20:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		20:00 ~ 21:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		21:00 ~ 22:00	*10*	**217**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217
R8		22:00 ~ 23:00	*10*	**214**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214
R8		23:00 ~ 00:00	*10*	**210**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
R9a	TKOFB Internal Road	00:00 ~ 01:00	*10*	**274**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
R9a		01:00 ~ 02:00	*10*	**274**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
R9a		02:00 ~ 03:00	*10*	**274**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
R9a		03:00 ~ 04:00	*10*	**274**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
R9a		04:00 ~ 05:00	*10*	**274**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
R9a		05:00 ~ 06:00	*10*	**274**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
R9a		06:00 ~ 07:00	*10*	**274**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
R9a		07:00 ~ 08:00	*10*	**362**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	362
R9a		08:00 ~ 09:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		09:00 ~ 10:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		10:00 ~ 11:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		11:00 ~ 12:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		12:00 ~ 13:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		13:00 ~ 14:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		14:00 ~ 15:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		15:00 ~ 16:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		16:00 ~ 17:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		17:00 ~ 18:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		18:00 ~ 19:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		19:00 ~ 20:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		20:00 ~ 21:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		21:00 ~ 22:00	*10*	**364**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
R9a		22:00 ~ 23:00	*10*	**362**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	362
R9a		23:00 ~ 00:00	*10*	**274**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274
R9b	TKOFB Internal Road	00:00 ~ 01:00	*10*	**169**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
R9b		01:00 ~ 02:00	*10*	**169**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
R9b		02:00 ~ 03:00	*10*	**169**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
R9b		03:00 ~ 04:00	*10*	**169**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
R9b		04:00 ~ 05:00	*10*	**169**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
R9b		05:00 ~ 06:00	*10*	**169**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
R9b		06:00 ~ 07:00	*10*	**169**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
R9b		07:00 ~ 08:00	*10*	**341**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	341
R9b		08:00 ~ 09:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		09:00 ~ 10:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		10:00 ~ 11:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		11:00 ~ 12:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		12:00 ~ 13:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		13:00 ~ 14:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		14:00 ~ 15:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		15:00 ~ 16:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		16:00 ~ 17:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		17:00 ~ 18:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		18:00 ~ 19:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		19:00 ~ 20:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		20:00 ~ 21:00	*10*	**346**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	346
R9b		21:00 ~ 22:00	*10*	**344**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	344
R9b		22:00 ~ 23:00	*10*	**341**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	341
R9b		23:00 ~ 00:00	*10*	**169**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
R9c	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		07:00 ~ 08:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		08:00 ~ 09:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		09:00 ~ 10:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		10:00 ~ 11:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		11:00 ~ 12:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		12:00 ~ 13:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		13:00 ~ 14:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		14:00 ~ 15:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		15:00 ~ 16:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		16:00 ~ 17:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		17:00 ~ 18:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		18:00 ~ 19:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		19:00 ~ 20:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		20:00 ~ 21:00	*10*	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
R9c		21:00 ~ 22:00	*10*	**3**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
R9c		22:00 ~ 23:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R9c		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix E - Traffic Forcast in Year 2026

Road ID	Road Name	Hour	Average Speed	Total Flow	PC	TAXI	LGV3	LGV4	LGV6	HGV7	HGV8	PLB	PV4	PV5	NFB6	NFB7	NFB8	FBSD	FBDD	MC	HGV9	NFB9	HGV9(b)
R11	TKOFB Internal Road	00:00 ~ 01:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11		01:00 ~ 02:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11		02:00 ~ 03:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11		03:00 ~ 04:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11		04:00 ~ 05:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11		05:00 ~ 06:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11		06:00 ~ 07:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11		07:00 ~ 08:00	*10*	**260**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260
R11		08:00 ~ 09:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		09:00 ~ 10:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		10:00 ~ 11:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		11:00 ~ 12:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		12:00 ~ 13:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		13:00 ~ 14:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		14:00 ~ 15:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		15:00 ~ 16:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		16:00 ~ 17:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		17:00 ~ 18:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		18:00 ~ 19:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		19:00 ~ 20:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		20:00 ~ 21:00	*10*	**261**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	261
R11		21:00 ~ 22:00	*10*	**260**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260
R11		22:00 ~ 23:00	*10*	**260**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260
R11		23:00 ~ 00:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11a	TKOFB Internal Road	00:00 ~ 01:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11a		01:00 ~ 02:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11a		02:00 ~ 03:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11a		03:00 ~ 04:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11a		04:00 ~ 05:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11a		05:00 ~ 06:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11a		06:00 ~ 07:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R11a		07:00 ~ 08:00	*10*	**365**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	365
R11a		08:00 ~ 09:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		09:00 ~ 10:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		10:00 ~ 11:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		11:00 ~ 12:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		12:00 ~ 13:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		13:00 ~ 14:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		14:00 ~ 15:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		15:00 ~ 16:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		16:00 ~ 17:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		17:00 ~ 18:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		18:00 ~ 19:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		19:00 ~ 20:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		20:00 ~ 21:00	*10*	**366**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	366
R11a		21:00 ~ 22:00	*10*	**365**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	365
R11a		22:00 ~ 23:00	*10*	**365**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	365
R11a		23:00 ~ 00:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12	TKOFB Internal Road	00:00 ~ 01:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R12		01:00 ~ 02:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R12		02:00 ~ 03:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R12		03:00 ~ 04:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R12		04:00 ~ 05:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R12		05:00 ~ 06:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R12		06:00 ~ 07:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R12		07:00 ~ 08:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		08:00 ~ 09:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		09:00 ~ 10:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		10:00 ~ 11:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		11:00 ~ 12:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		12:00 ~ 13:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		13:00 ~ 14:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		14:00 ~ 15:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		15:00 ~ 16:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		16:00 ~ 17:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		17:00 ~ 18:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		18:00 ~ 19:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		19:00 ~ 20:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		20:00 ~ 21:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		21:00 ~ 22:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		22:00 ~ 23:00	*10*	**105**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
R12		23:00 ~ 00:00	*10*	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

By Fax

運輸署
Transport Department

本署檔案 Our Ref. : (NHZ24) in TD NR182/190-61
來函檔號 Your Ref. : 20101HK/hor/knc/02
電 話 Tel. : 2399 2391
圖文傳真 Fax : 2381 3799
電 郵 Email :

Fax 2214 0817
15 November 2021

CTA Consultants Limited
Unit 801, 8/F, Technology Plaza,
651 King's Road,
North Point,
Hong Kong

Attn: Mr. Horace Mak

Dear Mr. Mak,

Agreement No. FM 05/2020 Environmental Review and Traffic Impact Assessment for Extension of Operation of Fill Bank at Tseung Kwan O Area 137 – Investigation Year 2022 and Year 2026 Traffic Forecasts for Traffic Noise Impact Assessment (TNIA) and Air Quality Impact Assessment (AQIA)

We refer to your above quoted letter dated 12 November 2021 regarding the captioned subject.

Please note that the Environmental Assessment Study is not under our purview. We are not in a position to provide comments on the traffic figures tailor-made for the environmental assessment study.

Notwithstanding the above, we have no comment on the methodology of the traffic forecast.

Yours faithfully,

(Daniel MA Chi-hung)
for Commissioner for Transport

cc E/PI -please note in file.

新界分區辦事處
NT Regional Office
九龍聯運街三十號旺角政府合署七樓
7th Floor, Mong Kok Government Offices, 30 Luen Wan Street, Kowloon.
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APPENDIX F EMISSION INVENTORY FOR OTHER EMISSION SOURCES IN THE VICINITY OF TKOFB

Appendix F - Emission Inventory for Other Emission Sources

Emission Inventory for HAECO and SENTX

Emission Sources	Model ID	Source Type	X1-coordinate	Y1-coordinate	X2-coordinate	Y2-coordinate	Base Elevation	Release Height	Temperature	Exit Velocity	Stack Diameter	X-Length	Y-Length	Angle	Width	Maximum Emission Rate						Operation Hour
																NOx	SO2	RSP		FSP		
																		Working Hours	Non-working Hours	Working Hours	Non-working Hours	
	(ID)	(Type)	(HK1980)	(HK1980)	(HK1980)	(HK1980)	(mPD)	(mAG)	(K)	(m/s)	(m)	(m)	(m)	(degree)	(m)	(g/s)	(g/s)	(g/m²/s)	(g/m²/s)	(g/m²/s)	(g/m²/s)	(hour)
HAECO [b]	HO	POINT	846000.00	815724.00	-	-	6.70	40.00	325	16.40	14.70	-	-	-	-	1.060E+02	1.920E+00	-	-	-	-	24-hour
SENTX Flare1 [a]	F1	POINT	846465.00	814674.30	-	-	7.00	12.20	1144	10.00	2.00	-	-	-	-	2.430E-01	7.900E-02	-	-	-	-	24-hour
SENTX Thermal oxidizer [a]	TO	POINT	846565.40	814732.00	-	-	7.00	21.65	518	7.50	2.10	-	-	-	-	2.500E+00	7.000E-02	-	-	-	-	24-hour
SENTX LFG Generator [a]	LG	POINT	846435.40	814675.10	-	-	7.00	15.00	764	28.20	0.50	-	-	-	-	5.270E-02	3.400E-02	-	-	-	-	24-hour
SENTX Active Filling Area	AA	AREA	846414.40	815410.40	-	-	20.00	0.50	-	-	-	30.00	40.00	230.02	-	-	-	4.202E-06	8.086E-07	4.202E-07	8.086E-08	08:00-23:00
SENTX Paved Haul Road	TKO22a	LINE	846249.74	815413.44	846237.20	815252.04	5.40	0.50	-	-	-	-	-	-	7.00	-	-	1.191E-05	0	2.881E-06	0	08:00-23:00
SENTX Paved Haul Road	TKO22b	LINE	846237.20	815252.04	846243.02	815115.27	5.65	0.50	-	-	-	-	-	-	7.00	-	-	1.191E-05	0	2.881E-06	0	08:00-23:00
SENTX Paved Haul Road	TKO22c	LINE	846243.02	815115.27	846308.99	815043.70	8.15	0.50	-	-	-	-	-	-	7.00	-	-	1.191E-05	0	2.881E-06	0	08:00-23:00
SENTX Paved Haul Road	TKO22d	LINE	846308.99	815043.70	846325.89	814788.35	11.10	0.50	-	-	-	-	-	-	7.00	-	-	1.191E-05	0	2.881E-06	0	08:00-23:00
SENTX Unpaved Haul Road	TKO22e	LINE	846325.89	814788.35	846560.66	814827.46	12.00	0.50	-	-	-	-	-	-	7.00	-	-	6.185E-05	8.086E-07	6.185E-06	8.086E-08	08:00-23:00
SENTX Unpaved Haul Road	TKO22f	LINE	846560.66	814827.46	846442.47	815024.44	14.50	0.50	-	-	-	-	-	-	7.00	-	-	6.185E-05	8.086E-07	6.185E-06	8.086E-08	08:00-23:00
SENTX Unpaved Haul Road	TKO22g	LINE	846442.47	815024.44	846514.18	815251.61	19.50	0.50	-	-	-	-	-	-	7.00	-	-	6.185E-05	8.086E-07	6.185E-06	8.086E-08	08:00-23:00
SENTX Unpaved Haul Road	TKO22h	LINE	846514.18	815251.61	846334.81	815361.92	24.50	0.50	-	-	-	-	-	-	7.00	-	-	6.185E-05	8.086E-07	6.185E-06	8.086E-08	08:00-23:00

Appendix F - Emission Inventory for Other Emission Sources

Calculation of Haul Roads Emissions in SENTX

Wind Erosion - Active Filling Area and Unpaved Haul Road			**Reference**
TSP emission factor	0.85	Mg/hectare/year	USEPA AP-42 Section 11.9, Table 11.9.4
RSP to TSP ratio	0.3		Estimating Particulate Matter Emissions From Construction Operations, USEPA 1999
FSP to TSP ratio	0.03		Estimating Particulate Matter Emissions From Construction Operations, USEPA 1999
Unmitigated RSP emission rate	8.086E-07	g/m²/s	
Unmitigated FSP emission rate	8.086E-08	g/m²/s	
Dust Removal Efficiency	91.7	%	Watering once every hour, TKODP ERR
Mitigated RSP emission rate	6.711E-08	g/m²/s	
Mitigated FSP emission rate	6.711E-09	g/m²/s	

Active Filling Area (AA) (08:00 to 23:00)			
TSP emission factor	2.69	Mg/hectare/month of activity	USEPA AP-42 Section 13.2.3.3
No of working days per month	30		
Number of working hours per day	15		
RSP to TSP ratio	0.3		Estimating Particulate Matter Emissions From Construction Operations, USEPA 1999
FSP to TSP ratio	0.03		Estimating Particulate Matter Emissions From Construction Operations, USEPA 1999
Unmitigated RSP emission rate	4.981E-05	g/m²/s	
Unmitigated FSP emission rate	4.981E-06	g/m²/s	
Dust Removal Efficiency	91.7	%	Watering once every hour, TKODP ERR
Mitigated RSP emission rate	4.135E-06	g/m²/s	
Mitigated FSP emission rate	4.135E-07	g/m²/s	

Paved Haul Road - TKO22a to TKO22d (08:00 to 23:00)			
k (RSP)	0.62		USEPA AP-42 Section 13.2.1, Table 13.2.1-1
k (FSP)	0.15		USEPA AP-42 Section 13.2.1, Table 13.2.1-1
s - surface silt loading	2.4	g/m2	USEPA AP-42 Section 13.2.1, Table 13.2.1-3
W - mean vehicle weight	18.88	US tons	
E (RSP)	27.5	g/Vkt	
E (FSP)	6.7	g/Vkt	
No of trucks per hour	109		Maximum hourly no. of truck from Traffic forecast (i.e. Road To/From TKO SENTX)
Dust suppression %	90	%	TKODP ERR
Width of road	7	m	TKODP ERR
Mitigated RSP emission rate	1.191E-05	g/m²/s	
Mitigated FSP emission rate	2.881E-06	g/m²/s	

Unpaved Haul Road -TKO22e to TKO22h (08:00 to 23:00)			
k (RSP)	1.5		USEPA AP-42 Section 13.2.2, Table 13.2.2-2
k (FSP)	0.15		USEPA AP-42 Section 13.2.2, Table 13.2.2-2
s - surface material silt content	6.4	%	USEPA AP-42 Section 13.2.2, Table 13.2.2-1
a (RSP and FSP)	0.9		USEPA AP-42 Section 13.2.2, Table 13.2.2-2
b (RSP and FSP)	0.45		USEPA AP-42 Section 13.2.2, Table 13.2.2-2
W - mean vehicle weight	18.88	US tons	
E (RSP)	0.549	g/Vmt	
E (FSP)	0.055	g/Vmt	
No of trucks per hour	109		Maximum hourly no. of truck from Traffic forecast (i.e. Road To/From TKO SENTX)
Dust suppression %	90	%	TKODP ERR
Width of road	7	m	TKODP ERR
Vehicle speed correction	74	%	TKODP ERR
Mitigated RSP emission rate	6.179E-05	g/m²/s	
Mitigated FSP emission rate	6.179E-06	g/m²/s	

Notes:

(a) Emission details were referenced from the appproved *Technical Note on Operational Air Quality Impact Due to Proposed Design Changes for SENT Extension* in 2019.

(b) Emission information was confirmed valid by HAECO making reference to the *TKOFB Environmental Review Report* approved in Nov 2018.

(c) The locations of dust emission sources from the operation of SENT Landfill Extension (SENTX) (i.e. active filling area / paved haul road) are based on the current/future tipping areas of SENTX provided by Facility Management Group (FMG) of EPD, with the following considerations/assumptions:
- an daily active filling area of 30m * 40m at a time.
- for the modelled location of active filling area, taking into account the nearest tipping area to majority of the ASRs and the longest travelling road path to the active tipping area, based on the current/future tipping areas.
Indicative locations of haul roads TKO22a to TKO22h and active filling area are illustrated in Figure 3.6.

(d) The area for haul road TKO22a to TKO22d is paved when handing over for SENT Landfill Extension as confirmed by CEDD.

Appendix F - Emission Inventory for Other Emission Sources

Emission Inventory for Proposed Concrete Batching Plant

Emission Sources	Model ID	Source Type	X1-coordinate	Y1-coordinate	X2-coordinate	Y2-coordinate	Base Elevation	Release Height	Temperature	Exit Velocity	Stack Diameter	X-Length	Y-Length	Angle	Road Width	Model Width	Maximum Emission Rate				Operation Hour
																	RSP		FSP		
																	Working Hours	Non-working Hours	Working Hours	Non-working Hours	
	(ID)	(Type)	(HK1980)	(HK1980)	(HK1980)	(HK1980)	(mPD)	(m)	(K)	(m/s)	(m)	(m)	(m)	(degree)	(m)	(m)	(g/s) or (g/m²/s)	(g/s) or (g/m²/s)	(g/s) or (g/m²/s)	(g/s) or (g/m²/s)	(hour)
Proposed Concrete Batching Plant	CEP1	AREA	845568.50	815054.00	-	-	5.5	5.57	-	-	-	3.6	5.4	54	-	-	1.130E-03	-	3.500E-04	-	07:00-23:00
	CEP2	POINT	845573.70	815088.10	-	-	5.5	15	273.15	25.42	0.22	-	-	-	-	-	1.350E-04	-	6.080E-05	-	07:00-19:00
	CEP3	POINT	845569.50	815078.30	-	-	5.5	15	273.15	25.42	0.22	-	-	-	-	-	1.350E-04	-	6.080E-05	-	07:00-19:00
	CEP4	POINT	845565.80	815085.20	-	-	5.5	15	273.15	25.42	0.22	-	-	-	-	-	1.350E-04	-	6.080E-05	-	07:00-19:00
	CEP5	POINT	845572.30	815091.60	-	-	5.5	15	273.15	25.42	0.22	-	-	-	-	-	2.710E-03	-	1.220E-03	-	07:00-19:00
	CEP6	POINT	845568.30	815081.40	-	-	5.5	15	273.15	25.42	0.22	-	-	-	-	-	2.710E-03	-	1.220E-03	-	07:00-19:00
	CEP7	POINT	845564.30	815088.90	-	-	5.5	15	273.15	25.42	0.22	-	-	-	-	-	2.710E-03	-	1.220E-03	-	07:00-19:00
	CEP8	POINT	845579.00	815081.10	-	-	5.5	27.3	273.15	9.84	0.59	-	-	-	-	-	1.130E-02	-	5.100E-03	-	07:00-23:00
	CEP9	POINT	845576.20	815088.10	-	-	5.5	27.3	273.15	9.84	0.59	-	-	-	-	-	1.130E-02	-	5.100E-03	-	07:00-23:00
	CEP10	POINT	845569.90	815086.30	-	-	5.5	27.3	273.15	9.84	0.59	-	-	-	-	-	1.130E-02	-	5.100E-03	-	07:00-23:00
	CEP11	POINT	845573.00	815078.70	-	-	5.5	27.3	273.15	9.84	0.59	-	-	-	-	-	1.130E-02	-	5.100E-03	-	07:00-23:00
	CEP12	POINT	845568.30	815076.80	-	-	5.5	27.3	273.15	9.84	0.59	-	-	-	-	-	1.130E-02	-	5.100E-03	-	07:00-23:00
	CEP13	POINT	845565.50	815083.90	-	-	5.5	27.3	273.15	9.84	0.59	-	-	-	-	-	1.130E-02	-	5.100E-03	-	07:00-23:00
	CEP14_1	AREA	845583.10	815109.00	-	-	5.5	0	-			20.5	6	68	-	-	1.300E-06	-	3.150E-07	-	07:00-23:00
	CEP14_2	AREA	845591.00	815090.10	-	-	5.5	0	-	-	-	25.5	6	68	-	-	1.300E-06	-	3.150E-07	-	07:00-23:00
	CEP14_3	AREA	845595.60	815055.90	-	-	5.5	0	-	-	-	6	13.7	21	-	-	1.300E-06	-	3.150E-07	-	07:00-23:00
	CEP14_4	AREA	845567.20	815045.40	-	-	5.5	0	-	-	-	6	32.4	68	-	-	1.300E-06	-	3.150E-07	-	07:00-23:00
	CEP14_5	AREA	845551.70	815045.20	-	-	5.5	0	-	-	-	16.6	6	19	-	-	1.300E-06	-	3.150E-07	-	07:00-23:00
	CEP14_6	AREA	845549.70	815048.10	-	-	5.5	0	-	-	-	6	14.1	1	-	-	1.300E-06	-	3.150E-07	-	07:00-23:00
	CEP14_7	AREA	845550.70	815060.00	-	-	5.5	0	-	-	-	13.8	6	45	-	-	5.200E-06	-	1.260E-06	-	07:00-23:00
	CEP14_8	AREA	845549.80	815062.30	-	-	5.5	0	-	-	-	6	30.6	3	-	-	1.300E-06	-	3.150E-07	-	07:00-23:00
	CEP15_1	AREA	845583.10	815109.10	-	-	5.5	0	-	-	-	13	6	68	-	-	3.910E-06	-	9.450E-07	-	07:00-19:00
	CEP15_2	AREA	845580.60	815090.60	-	-	5.5	0	-	-	-	6	12.2	39	-	-	3.910E-06	-	9.450E-07	-	07:00-19:00
	CEP15_3	AREA	845561.20	815083.30	-	-	5.5	0	-	-	-	6	22.2	68	-	-	3.910E-06	-	9.450E-07	-	07:00-19:00
	CEP15_4	AREA	845551.80	815073.10	-	-	5.5	0	-	-	-	6	12.6	42	-	-	3.910E-06	-	9.450E-07	-	07:00-19:00
	CEP15_5	AREA	845550.20	815048.50	-	-	5.5	0	-	-	-	6	22.7	2	-	-	1.560E-05	-	3.780E-06	-	07:00-19:00
	CEP15_6	AREA	845552.20	815045.60	-	-	5.5	0	-	-	-	16.2	6	19	-	-	1.560E-05	-	3.780E-06	-	07:00-19:00
	CEP15_7	AREA	845566.70	815045.40	-	-	5.5	0	-	-	-	6	20.3	53	-	-	1.560E-05	-	3.780E-06	-	07:00-19:00
	CEP15_8	AREA	845577.70	815067.90	-	-	5.5	0	-	-	-	14.3	6	73	-	-	1.560E-05	-	3.780E-06	-	07:00-19:00
	CEP15_9	AREA	845551.00	815071.20	-	-	5.5	0	-	-	-	6	21.6	1	-	-	3.910E-06	-	9.450E-07	-	07:00-19:00
	CEP16_1	AREA	845551.60	815092.90	-	-	5.5	0	-	-	-	18.1	6	82	-	-	4.630E-07	-	1.120E-07	-	07:00-23:00
	CEP16_2	AREA	845554.80	815073.00	-	-	5.5	0	-	-	-	14.3	6	52	-	-	4.630E-07	-	1.120E-07	-	07:00-23:00
Paved Haul Roads to/from Proposed Concrete Batching Plant	TKO23a	LINE	846249.74	815413.44	846024.65	815391.94	5.4	0.5	-	-	-	-	-	-	7.00	13.00	1.526E-05	-	3.693E-06	-	07:00-23:00
	TKO23b	LINE	846024.65	815391.94	845968.21	815358.43	5.4	0.5	-	-	-	-	-	-	7.00	13.00	1.526E-05	-	3.693E-06	-	07:00-23:00
	TKO23c	LINE	845968.21	815358.43	845925.37	815252.53	5.4	0.5	-	-	-	-	-	-	7.00	13.00	1.526E-05	-	3.693E-06	-	07:00-23:00
	TKO23d	LINE	845925.37	815252.53	845896.15	815182.79	5.5	0.5	-	-	-	-	-	-	7.00	13.00	1.526E-05	-	3.693E-06	-	07:00-23:00
	TKO23e	LINE	845896.15	815182.79	845845.96	815150.11	5.6	0.5	-	-	-	-	-	-	7.00	13.00	1.526E-05	-	3.693E-06	-	07:00-23:00
	TKO23f	LINE	845845.96	815150.11	845682.17	815147.77	5.6	0.5	-	-	-	-	-	-	7.00	13.00	1.526E-05	-	3.693E-06	-	07:00-23:00
	TKO23g	LINE	845682.17	815147.77	845615.91	815128.46	5.5	0.5	-	-	-	-	-	-	7.00	13.00	1.526E-05	-	3.693E-06	-	07:00-23:00
	TKO23h	LINE	845615.91	815128.46	845549.07	815099.70	5.5	0.5	-	-	-	-	-	-	7.00	13.00	1.526E-05	-	3.693E-06	-	07:00-23:00

Appendix F - Emission Inventory for Other Emission Sources

Calculation of Haul Roads Emissions in Proposed Concrete batching Plant

Paved Haul Road -TKO23a to TKO23h (07:00 to 23:00)			**Reference**
k (RSP)	0.62		USEPA AP-42 Section 13.2.1, Table 13.2.1-1
k (FSP)	0.15		USEPA AP-42 Section 13.2.1, Table 13.2.1-1
s - surface silt loading	2.4	g/m2	USEPA AP-42 Section 13.2.1, Table 13.2.1-3
W - mean vehicle weight	29.70	US tons	
E (RSP)	43.7	g/Vkt	
E (FSP)	10.6	g/Vkt	
No of trucks per hour (07:00-19:00)	88		The total hourly truck flow on different routes within CBP, APCP of CBP.
No of trucks per hour (19:00-23:00)	36		The total hourly truck flow on different routes within CBP, APCP of CBP.
Dust suppression %	90	%	TKODP ERR
Width of road	7	m	
Mitigated RSP emission rate (07:00-19:00)	1.526E-05	g/m²/s	
Mitigated FSP emission rate (07:00-19:00)	3.693E-06	g/m²/s	
Mitigated RSP emission rate (19:00-23:00)	6.244E-06	g/m²/s	
Mitigated FSP emission rate (19:00-23:00)	1.511E-06	g/m²/s	

Notes:

(a) Emission parameters and emission rates were referenced from the Air Pollution Control Plan (APCP) of the Proposed Concrete Batching Plant of Tsueng Kwan O Area 137.

(b) The area for haul road TKO23a to TKO23h is observed as paved during the site visit dated 20240531.

(c) The Particle Size Distribution for Different Emission Types are as follows (applicable for Fugitive Dust Emission only)

EP1 - Aggregate Unloading (Ref: Category 3 of Appendix B.2 Generalized, AP-42, USEPA)

Particle Size	**Mean Particle Size**	**RSP**	**FSP**
(μm)	**(μm)**	**(%)**	**(%)**
1	0.5	7.8%	26.7%
2	1.5	13.7%	46.7%
2.5	2.25	7.8%	26.7%
3	2.75	5.9%	-
4	3.5	13.7%	-
5	4.5	9.8%	-
6	5.5	7.8%	-
10	8	33.3%	-

EP14 to EP16 -Area sources for truck movements (Ref: Table 13.2.1 of Section 13.2, AP-42, USEPA)

Particle Size	**Mean Particle Size**	**RSP**	**FSP**
(μm)	**(μm)**	**(%)**	**(%)**
2.5	1.25	24.2%	100.0%
10	6.25	75.8%	-

Appendix F - Emission Inventory for Other Emission Sources

Hourly Emission Rates for Active Filling Area in SENTX

Hour	Active Filling Area (AA)	
	Emission Rates (g/s or g/m2/s)	
	RSP	FSP
00:00 - 01:00	8.086E-07	8.086E-08
01:00 - 02:00	8.086E-07	8.086E-08
02:00 - 03:00	8.086E-07	8.086E-08
03:00 - 04:00	8.086E-07	8.086E-08
04:00 - 05:00	8.086E-07	8.086E-08
05:00 - 06:00	8.086E-07	8.086E-08
06:00 - 07:00	8.086E-07	8.086E-08
07:00 - 08:00	8.086E-07	8.086E-08
08:00 - 09:00	4.202E-06	4.202E-07
09:00 - 10:00	4.202E-06	4.202E-07
10:00 - 11:00	4.202E-06	4.202E-07
11:00 - 12:00	4.202E-06	4.202E-07
12:00 - 13:00	4.202E-06	4.202E-07
13:00 - 14:00	4.202E-06	4.202E-07
14:00 - 15:00	4.202E-06	4.202E-07
15:00 - 16:00	4.202E-06	4.202E-07
16:00 - 17:00	4.202E-06	4.202E-07
17:00 - 18:00	4.202E-06	4.202E-07
18:00 - 19:00	4.202E-06	4.202E-07
19:00 - 20:00	4.202E-06	4.202E-07
20:00 - 21:00	4.202E-06	4.202E-07
21:00 - 22:00	4.202E-06	4.202E-07
22:00 - 23:00	4.202E-06	4.202E-07
23:00 - 00:00	8.086E-07	8.086E-08
Maximum	**4.202E-06**	**4.202E-07**

Hourly Emission Rates for Road TKO22 (Paved and Unpaved Haul Road)

Hour	Truck Flow To/From SENTX (Veh) [a]	Paved Haul Road (TKO22a-d)		Unpaved Haul Road (TKO22e-g)	
		Emission Rates (g/m2/s)		Emission Rates (g/m2/s)	
		RSP	FSP	RSP	FSP
00:00 - 01:00	0	0	0	8.086E-07	8.086E-08
01:00 - 02:00	0	0	0	8.086E-07	8.086E-08
02:00 - 03:00	0	0	0	8.086E-07	8.086E-08
03:00 - 04:00	0	0	0	8.086E-07	8.086E-08
04:00 - 05:00	0	0	0	8.086E-07	8.086E-08
05:00 - 06:00	0	0	0	8.086E-07	8.086E-08
06:00 - 07:00	0	0	0	8.086E-07	8.086E-08
07:00 - 08:00	0	0	0	8.086E-07	8.086E-08
08:00 - 09:00	30	3.278E-06	7.930E-07	1.702E-05	1.702E-06
09:00 - 10:00	94	1.027E-05	2.485E-06	5.334E-05	5.334E-06
10:00 - 11:00	101	1.104E-05	2.670E-06	5.731E-05	5.731E-06
11:00 - 12:00	99	1.082E-05	2.617E-06	5.618E-05	5.618E-06
12:00 - 13:00	88	9.615E-06	2.326E-06	4.994E-05	4.994E-06
13:00 - 14:00	91	9.943E-06	2.405E-06	5.164E-05	5.164E-06
14:00 - 15:00	100	1.093E-05	2.643E-06	5.675E-05	5.675E-06
15:00 - 16:00	101	1.104E-05	2.670E-06	5.731E-05	5.731E-06
16:00 - 17:00	109	1.191E-05	2.881E-06	6.185E-05	6.185E-06
17:00 - 18:00	77	8.413E-06	2.035E-06	4.370E-05	4.370E-06
18:00 - 19:00	61	6.665E-06	1.612E-06	3.462E-05	3.462E-06
19:00 - 20:00	30	3.278E-06	7.930E-07	1.702E-05	1.702E-06
20:00 - 21:00	12	1.311E-06	3.172E-07	6.810E-06	6.810E-07
21:00 - 22:00	5	5.463E-07	1.322E-07	2.837E-06	2.837E-07
22:00 - 23:00	2	2.185E-07	5.287E-08	1.135E-06	1.135E-07
23:00 - 00:00	0	0	0	8.086E-07	8.086E-08
Maximum		**1.191E-05**	**2.881E-06**	**6.185E-05**	**6.185E-06**

Note:

(a) Hourly truck flow to and from SENTX was provided by traffic consultant based on daily truck flow predictions as advised by EPD.

Appendix F - Emission Inventory for Other Emission Sources

Hourly Emission Rates for Road TKO23 (Paved Haul Road)

Hour	Truck Flow To/From Proposed CBP (Veh) [a]	Paved Haul Road (TKO23a-h)	
		Emission Rates (g/s or g/m2/s)	
		RSP	FSP
00:00 - 01:00	0	0	0
01:00 - 02:00	0	0	0
02:00 - 03:00	0	0	0
03:00 - 04:00	0	0	0
04:00 - 05:00	0	0	0
05:00 - 06:00	0	0	0
06:00 - 07:00	0	0	0
07:00 - 08:00	88	1.526E-05	3.693E-06
08:00 - 09:00	88	1.526E-05	3.693E-06
09:00 - 10:00	88	1.526E-05	3.693E-06
10:00 - 11:00	88	1.526E-05	3.693E-06
11:00 - 12:00	88	1.526E-05	3.693E-06
12:00 - 13:00	88	1.526E-05	3.693E-06
13:00 - 14:00	88	1.526E-05	3.693E-06
14:00 - 15:00	88	1.526E-05	3.693E-06
15:00 - 16:00	88	1.526E-05	3.693E-06
16:00 - 17:00	88	1.526E-05	3.693E-06
17:00 - 18:00	88	1.526E-05	3.693E-06
18:00 - 19:00	88	1.526E-05	3.693E-06
19:00 - 20:00	36	6.244E-06	1.511E-06
20:00 - 21:00	36	6.244E-06	1.511E-06
21:00 - 22:00	36	6.244E-06	1.511E-06
22:00 - 23:00	36	6.244E-06	1.511E-06
23:00 - 00:00	0	0	0
Maximum		**1.526E-05**	**3.693E-06**

Note:

(a) The total hourly truck flow on different routes within proposed concrete batching plant was extracted from the APCP of the proposed concrete batching plant.

Hourly Emission Rate Ratio for AERMOD Model Input

Hour	Active Filling Area in SENTX (AA)		Paved Haul Road (TKO22a-d)		Unpaved Haul Road (TKO22e-h)		Paved Haul Road (TKO23a-h)	
	RSP	FSP	RSP	FSP	RSP	FSP	RSP	FSP
00:00 - 01:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	0.0000	0.0000
01:00 - 02:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	0.0000	0.0000
02:00 - 03:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	0.0000	0.0000
03:00 - 04:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	0.0000	0.0000
04:00 - 05:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	0.0000	0.0000
05:00 - 06:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	0.0000	0.0000
06:00 - 07:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	0.0000	0.0000
07:00 - 08:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	1.0000	1.0000
08:00 - 09:00	1.0000	1.0000	0.2752	0.2752	0.2752	0.2752	1.0000	1.0000
09:00 - 10:00	1.0000	1.0000	0.8624	0.8624	0.8624	0.8624	1.0000	1.0000
10:00 - 11:00	1.0000	1.0000	0.9266	0.9266	0.9266	0.9266	1.0000	1.0000
11:00 - 12:00	1.0000	1.0000	0.9083	0.9083	0.9083	0.9083	1.0000	1.0000
12:00 - 13:00	1.0000	1.0000	0.8073	0.8073	0.8073	0.8073	1.0000	1.0000
13:00 - 14:00	1.0000	1.0000	0.8349	0.8349	0.8349	0.8349	1.0000	1.0000
14:00 - 15:00	1.0000	1.0000	0.9174	0.9174	0.9174	0.9174	1.0000	1.0000
15:00 - 16:00	1.0000	1.0000	0.9266	0.9266	0.9266	0.9266	1.0000	1.0000
16:00 - 17:00	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
17:00 - 18:00	1.0000	1.0000	0.7064	0.7064	0.7064	0.7064	1.0000	1.0000
18:00 - 19:00	1.0000	1.0000	0.5596	0.5596	0.5596	0.5596	1.0000	1.0000
19:00 - 20:00	1.0000	1.0000	0.2752	0.2752	0.2752	0.2752	0.4091	0.4091
20:00 - 21:00	1.0000	1.0000	0.1101	0.1101	0.1101	0.1101	0.4091	0.4091
21:00 - 22:00	1.0000	1.0000	0.0459	0.0459	0.0459	0.0459	0.4091	0.4091
22:00 - 23:00	1.0000	1.0000	0.0183	0.0183	0.0183	0.0183	0.4091	0.4091
23:00 - 00:00	0.1924	0.1924	0.0000	0.0000	0.0131	0.0131	0.0000	0.0000

APPENDIX G EMISSION INVENTORY FOR VEHICULAR EMISSIONS

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	CVEH14_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1686E-06	3.1526E-06	3.1469E-06	3.1626E-06	3.1624E-06	3.1542E-06	3.1452E-06	3.1409E-06	3.1266E-06	3.1363E-06	3.1184E-06	3.1094E-06	3.1004E-06	3.0914E-06	3.1138E-06	3.1497E-06	0.0000E+00
NO	CVEH14_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0331E-06	3.0242E-06	3.0377E-06	3.0260E-06	3.0041E-06	2.9862E-06	2.9753E-06	3.0190E-06	3.0027E-06	2.9793E-06	2.9443E-06	2.9268E-06	2.9682E-06	2.9685E-06	2.9733E-06	2.9685E-06	0.0000E+00
NO	CVEH14_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0655E-06	3.0706E-06	3.0757E-06	3.0573E-06	3.0354E-06	3.0300E-06	3.0194E-06	3.0398E-06	3.0245E-06	3.0092E-06	2.9753E-06	2.9643E-06	2.9370E-06	2.9477E-06	2.9316E-06	2.9631E-06	0.0000E+00
NO	CVEH14_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8743E-06	2.8977E-06	2.8977E-06	2.9151E-06	2.9268E-06	2.9151E-06	2.9151E-06	2.9111E-06	2.8986E-06	2.8986E-06	2.8613E-06	2.8675E-06	2.8800E-06	2.8488E-06	2.8613E-06	2.8488E-06	0.0000E+00
NO	CVEH14_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9485E-06	2.9087E-06	2.9286E-06	2.9153E-06	2.9087E-06	2.8887E-06	2.8887E-06	2.9153E-06	2.9153E-06	2.9020E-06	2.8887E-06	2.8954E-06	2.8422E-06	2.8356E-06	2.8289E-06	2.8422E-06	0.0000E+00
NO	CVEH14_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8265E-06	2.8089E-06	2.7848E-06	2.7848E-06	2.7928E-06	2.8000E-06	2.7743E-06	2.7925E-06	2.7652E-06	2.7914E-06	2.8198E-06	2.7380E-06	2.7016E-06	2.6471E-06	2.6974E-06	2.6803E-06	0.0000E+00
NO	CVEH14_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6926E-06	2.7198E-06	2.6611E-06	2.6997E-06	2.8329E-06	2.7289E-06	2.6997E-06	2.7562E-06	2.7572E-06	2.7487E-06	2.6708E-06	2.6926E-06	2.7016E-06	2.6834E-06	2.6834E-06	2.6926E-06	0.0000E+00
NO	CVEH14_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7107E-06	2.7198E-06	2.7577E-06	2.8107E-06	2.8289E-06	2.8256E-06	2.8085E-06	2.8107E-06	2.8085E-06	2.7652E-06	2.7471E-06	2.7198E-06	2.6804E-06	2.7016E-06	2.6418E-06	2.7487E-06	0.0000E+00
NO	CVEH14_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0076E-06	3.0302E-06	3.0498E-06	3.0393E-06	3.0307E-06	3.0379E-06	3.0288E-06	3.0470E-06	3.0561E-06	3.0561E-06	3.0652E-06	3.0743E-06	3.0561E-06	3.0379E-06	3.0379E-06	3.0478E-06	0.0000E+00
NO	CVEH14_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0356E-06	3.0216E-06	3.0213E-06	3.0142E-06	2.9849E-06	2.9698E-06	2.9774E-06	2.9534E-06	2.9293E-06	2.9133E-06	2.8972E-06	2.8892E-06	2.8812E-06	2.8570E-06	2.8651E-06	3.0377E-06	0.0000E+00
NO	CVEH14_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1363E-06	3.1122E-06	3.0961E-06	3.1064E-06	3.1010E-06	3.0902E-06	3.0902E-06	3.1019E-06	3.0960E-06	3.1077E-06	3.0785E-06	3.1136E-06	3.1194E-06	3.0960E-06	3.1064E-06	3.1218E-06	0.0000E+00
NO	CVEH14_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2347E-06	3.2269E-06	3.2186E-06	3.2175E-06	3.2169E-06	3.2253E-06	3.2214E-06	3.2170E-06	3.2214E-06	3.2170E-06	3.2170E-06	3.2176E-06	3.2411E-06	3.2332E-06	3.2332E-06	3.2128E-06	0.0000E+00
NO	CVEH14_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1686E-06	3.1526E-06	3.1469E-06	3.1626E-06	3.1624E-06	3.1542E-06	3.1452E-06	3.1409E-06	3.1266E-06	3.1363E-06	3.1184E-06	3.1094E-06	3.1004E-06	3.0914E-06	3.1138E-06	3.1497E-06	0.0000E+00
NO	CVEH14_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0331E-06	3.0242E-06	3.0377E-06	3.0260E-06	3.0041E-06	2.9862E-06	2.9753E-06	3.0190E-06	3.0027E-06	2.9793E-06	2.9443E-06	2.9268E-06	2.9682E-06	2.9685E-06	2.9733E-06	2.9685E-06	0.0000E+00
NO	CVEH14_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0655E-06	3.0706E-06	3.0757E-06	3.0573E-06	3.0354E-06	3.0300E-06	3.0194E-06	3.0398E-06	3.0245E-06	3.0092E-06	2.9753E-06	2.9643E-06	2.9370E-06	2.9477E-06	2.9316E-06	2.9631E-06	0.0000E+00
NO	CVEH14_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8743E-06	2.8977E-06	2.8977E-06	2.9151E-06	2.9268E-06	2.9151E-06	2.9151E-06	2.9111E-06	2.8986E-06	2.8986E-06	2.8613E-06	2.8675E-06	2.8800E-06	2.8488E-06	2.8613E-06	2.8488E-06	0.0000E+00
NO	CVEH14_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9485E-06	2.9087E-06	2.9286E-06	2.9153E-06	2.9087E-06	2.8887E-06	2.8887E-06	2.9153E-06	2.9153E-06	2.9020E-06	2.8887E-06	2.8954E-06	2.8422E-06	2.8356E-06	2.8289E-06	2.8422E-06	0.0000E+00
NO	CVEH14_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8265E-06	2.8089E-06	2.7848E-06	2.7848E-06	2.7928E-06	2.8000E-06	2.7743E-06	2.7925E-06	2.7652E-06	2.7914E-06	2.8198E-06	2.7380E-06	2.7016E-06	2.6471E-06	2.6974E-06	2.6803E-06	0.0000E+00
NO	CVEH14_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6926E-06	2.7198E-06	2.6611E-06	2.6997E-06	2.8329E-06	2.7289E-06	2.6997E-06	2.7562E-06	2.7572E-06	2.7487E-06	2.6708E-06	2.6926E-06	2.7016E-06	2.6834E-06	2.6834E-06	2.6926E-06	0.0000E+00
NO	CVEH14_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7107E-06	2.7198E-06	2.7577E-06	2.8107E-06	2.8289E-06	2.8256E-06	2.8085E-06	2.8107E-06	2.8085E-06	2.7652E-06	2.7471E-06	2.7198E-06	2.6804E-06	2.7016E-06	2.6418E-06	2.7487E-06	0.0000E+00
NO	CVEH14_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0076E-06	3.0302E-06	3.0498E-06	3.0393E-06	3.0307E-06	3.0379E-06	3.0288E-06	3.0470E-06	3.0561E-06	3.0561E-06	3.0652E-06	3.0743E-06	3.0561E-06	3.0379E-06	3.0379E-06	3.0478E-06	0.0000E+00
NO	CVEH14_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0356E-06	3.0216E-06	3.0213E-06	3.0142E-06	2.9849E-06	2.9698E-06	2.9774E-06	2.9534E-06	2.9293E-06	2.9133E-06	2.8972E-06	2.8892E-06	2.8812E-06	2.8570E-06	2.8651E-06	3.0377E-06	0.0000E+00
NO	CVEH14_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1363E-06	3.1122E-06	3.0961E-06	3.1064E-06	3.1010E-06	3.0902E-06	3.0902E-06	3.1019E-06	3.0960E-06	3.1077E-06	3.0785E-06	3.1136E-06	3.1194E-06	3.0960E-06	3.1064E-06	3.1218E-06	0.0000E+00
NO	CVEH14_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2347E-06	3.2269E-06	3.2186E-06	3.2175E-06	3.2169E-06	3.2253E-06	3.2214E-06	3.2170E-06	3.2214E-06	3.2170E-06	3.2170E-06	3.2176E-06	3.2411E-06	3.2332E-06	3.2332E-06	3.2128E-06	0.0000E+00
NO	CVEH14_3	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1686E-06	3.1526E-06	3.1469E-06	3.1626E-06	3.1624E-06	3.1542E-06	3.1452E-06	3.1409E-06	3.1266E-06	3.1363E-06	3.1184E-06	3.1094E-06	3.1004E-06	3.0914E-06	3.1138E-06	3.1497E-06	0.0000E+00
NO	CVEH14_3	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0331E-06	3.0242E-06	3.0377E-06	3.0260E-06	3.0041E-06	2.9862E-06	2.9753E-06	3.0190E-06	3.0027E-06	2.9793E-06	2.9443E-06	2.9268E-06	2.9682E-06	2.9685E-06	2.9733E-06	2.9685E-06	0.0000E+00
NO	CVEH14_3	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0655E-06	3.0706E-06	3.0757E-06	3.0573E-06	3.0354E-06	3.0300E-06	3.0194E-06	3.0398E-06	3.0245E-06	3.0092E-06	2.9753E-06	2.9643E-06	2.9370E-06	2.9477E-06	2.9316E-06	2.9631E-06	0.0000E+00
NO	CVEH14_3	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8743E-06	2.8977E-06	2.8977E-06	2.9151E-06	2.9268E-06	2.9151E-06	2.9151E-06	2.9111E-06	2.8986E-06	2.8986E-06	2.8613E-06	2.8675E-06	2.8800E-06	2.8488E-06	2.8613E-06	2.8488E-06	0.0000E+00
NO	CVEH14_3	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9485E-06	2.9087E-06	2.9286E-06	2.9153E-06	2.9087E-06	2.8887E-06	2.8887E-06	2.9153E-06	2.9153E-06	2.9020E-06	2.8887E-06	2.8954E-06	2.8422E-06	2.8356E-06	2.8289E-06	2.8422E-06	0.0000E+00
NO	CVEH14_3	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8265E-06	2.8089E-06	2.7848E-06	2.7848E-06	2.7928E-06	2.8000E-06	2.7743E-06	2.7925E-06	2.7652E-06	2.7914E-06	2.8198E-06	2.7380E-06	2.7016E-06	2.6471E-06	2.6974E-06	2.6803E-06	0.0000E+00
NO	CVEH14_3	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6926E-06	2.7198E-06	2.6611E-06	2.6997E-06	2.8329E-06	2.7289E-06	2.6997E-06	2.7562E-06	2.7572E-06	2.7487E-06	2.6708E-06	2.6926E-06	2.7016E-06	2.6834E-06	2.6834E-06	2.6926E-06	0.0000E+00
NO	CVEH14_3	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7107E-06	2.7198E-06	2.7577E-06	2.8107E-06	2.8289E-06	2.8256E-06	2.8085E-06	2.8107E-06	2.8085E-06	2.7652E-06	2.7471E-06	2.7198E-06	2.6804E-06	2.7016E-06	2.6418E-06	2.7487E-06	0.0000E+00
NO	CVEH14_3	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0076E-06	3.0302E-06	3.0498E-06	3.0393E-06	3.0307E-06	3.0379E-06	3.0288E-06	3.0470E-06	3.0561E-06	3.0561E-06	3.0652E-06	3.0743E-06	3.0561E-06	3.0379E-06	3.0379E-06	3.0478E-06	0.0000E+00
NO	CVEH14_3	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0356E-06	3.0216E-06	3.0213E-06	3.0142E-06	2.9849E-06	2.9698E-06	2.9774E-06	2.9534E-06	2.9293E-06	2.9133E-06	2.8972E-06	2.8892E-06	2.8812E-06	2.8570E-06	2.8651E-06	3.0377E-06	0.0000E+00
NO	CVEH14_3	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1363E-06	3.1122E-06	3.0961E-06	3.1064E-06	3.1010E-06	3.0902E-06	3.0902E-06	3.1019E-06	3.0960E-06	3.1077E-06	3.0785E-06	3.1136E-06	3.1194E-06	3.0960E-06	3.1064E-06	3.1218E-06	0.0000E+00
NO	CVEH14_3	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2347E-06	3.2269E-06	3.2186E-06	3.2175E-06	3.2169E-06	3.2253E-06	3.2214E-06	3.2170E-06	3.2214E-06	3.2170E-06	3.2170E-06	3.2176E-06	3.2411E-06	3.2332E-06	3.2332E-06	3.2128E-06	0.0000E+00
NO	CVEH14_4	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1686E-06	3.1526E-06	3.1469E-06	3.1626E-06	3.1624E-06	3.1542E-06	3.1452E-06	3.1409E-06	3.1266E-06	3.1363E-06	3.1184E-06	3.1094E-06	3.1004E-06	3.0914E-06	3.1138E-06	3.1497E-06	0.0000E+00
NO	CVEH14_4	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0331E-06	3.0242E-06	3.0377E-06	3.0260E-06	3.0041E-06	2.9862E-06	2.9753E-06	3.0190E-06	3.0027E-06	2.9793E-06	2.9443E-06	2.9268E-06	2.9682E-06	2.9685E-06	2.9733E-06	2.9685E-06	0.0000E+00
NO	CVEH14_4	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0655E-06	3.0706E-06	3.0757E-06	3.0573E-06	3.0354E-06	3.0300E-06	3.0194E-06	3.0398E-06	3.0245E-06	3.0092E-06	2.9753E-06	2.9643E-06	2.9370E-06	2.9477E-06	2.9316E-06	2.9631E-06	0.0000E+00
NO	CVEH14_4	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8743E-06	2.8977E-06	2.8977E-06	2.9151E-06	2.9268E-06	2.9151E-06	2.9151E-06	2.9111E-06	2.8986E-06	2.8986E-06	2.8613E-06	2.8675E-06	2.8800E-06	2.8488E-06	2.8613E-06	2.8488E-06	0.0000E+00
NO	CVEH14_4	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9485E-06	2.9087E-06	2.9286E-06	2.9153E-06	2.9087E-06	2.8887E-06	2.8887E-06	2.9153E-06	2.9153E-06	2.9020E-06	2.8887E-06	2.8954E-06	2.8422E-06	2.8356E-06	2.8289E-06	2.8422E-06	0.0000E+00
NO	CVEH14_4	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8265E-06	2.8089E-06	2.7848E-06	2.7848E-06	2.7928E-06	2.8000E-06	2.7743E-06	2.7925E-06	2.7652E-06	2.7914E-06	2.8198E-06	2.7380E-06	2.7016E-06	2.6471E-06	2.6974E-06	2.6803E-06	0.0000E+00
NO	CVEH14_4	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6926E-06	2.7198E-06	2.6611E-06	2.6997E-06	2.8329E-06	2.7289E-06	2.6997E-06	2.7562E-06	2.7572E-06	2.7487E-06	2.6708E-06	2.6926E-06	2.7016E-06	2.6834E-06	2.6834E-06	2.6926E-06	0.0000E+00
NO	CVEH14_4	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7107E-06	2.7198E-06	2.7577E-06	2.8107E-06	2.8289E-06	2.8256E-06	2.8085E-06	2.8107E-06	2.8085E-06	2.7652E-06	2.7471E-06	2.7198E-06	2.6804E-06	2.7016E-06	2.6418E-06	2.7487E-06	0.0000E+00
NO	CVEH14_4	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0076E-06	3.0302E-06	3.0498E-06	3.0393E-06	3.0307E-06	3.0379E-06	3.0288E-06	3.0470E-06	3.0561E-06	3.0561E-06	3.0652E-06	3.0743E-06	3.0561E-06	3.0379E-06	3.0379E-06	3.0478E-06	0.0000E+00
NO	CVEH14_4	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0356E-06	3.0216E-06	3.0213E-06	3.0142E-06	2.9849E-06	2.9698E-06	2.9774E-06	2.9534E-06	2.9293E-06	2.9133E-06	2.8972E-06	2.8892E-06	2.8812E-06	2.8570E-06	2.8651E-06	3.0377E-06	0.0000E+00
NO	CVEH14_4	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1363E-06	3.1122E-06	3.0961E-06	3.1064E-06	3.1010E-06	3.0902E-06	3.0902E-06	3.1019E-06	3.0960E-06	3.1077E-06	3.0785E-06	3.1136E-06	3.1194E-06	3.0960E-06	3.1064E-06	3.1218E-06	0.0000E+00
NO	CVEH14_4	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2347E-06	3.2269E-06	3.2186E-06	3.2175E-06	3.2169E-06	3.2253E-06	3.2214E-06	3.2170E-06	3.2214E-06	3.2170E-06	3.2170E-06	3.2176E-06	3.2411E-06	3.2332E-06	3.2332E-06	3.2128E-06	0.0000E+00
NO	CVEH14_5	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1686E-06	3.1526E-06	3.1469E-06	3.1626E-06	3.1624E-06	3.1542E-06	3.1452E-06	3.1409E-06	3.1266E-06	3.1363E-06	3.1184E-06	3.1094E-06	3.1004E-06	3.0914E-06	3.1138E-06	3.1497E-06	0.0000E+00
NO	CVEH14_5	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0331E-06	3.0242E-06	3.0377E-06	3.0260E-06	3.0041E-06	2.9862E-06	2.9753E-06	3.0190E-06	3.0027E-06	2.9793E-06	2.9443E-06	2.9268E-06	2.9682E-06	2.9685E-06	2.9733E-06	2.9685E-06	0.0000E+00
NO	CVEH14_5	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0655E-06	3.0706E-06	3.0757E-06	3.0573E-06	3.0354E-06	3.0300E-06	3.0194E-06	3.0398E-06	3.0245E-06	3.0092E-06	2.9753E-06	2.9643E-06	2.9370E-06	2.9477E-06	2.9316E-06	2.9631E-06	0.0000E+00
NO	CVEH14_5	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8743E-06	2.8977E-06	2.8977E-06	2.9151E-06	2.9268E-06	2.9151E-06	2.9151E-06	2.9111E-06	2.8986E-06	2.8986E-06	2.8613E-06	2.8675E-06	2.8800E-06	2.8488E-06	2.8613E-06	2.8488E-06	0.0000E+00
NO	CVEH14_5	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9485E-06	2.9087E-06	2.9286E-06	2.9153E-06	2.9087E-06	2.8887E-06	2.8887E-06	2.9153E-06	2.9153E-06	2.9020E-06	2.8887E-06	2.8954E-06	2.8422E-06	2.8356E-06	2.8289E-06	2.8422E-06	0.0000E+00
NO	CVEH14_5	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8265E-06	2.8089E-06	2.7848E-06	2.7848E-06	2.7928E-06	2.8000E-06	2.7743E-06	2.7925E-06	2.7652E-06	2.7914E-06	2.8198E-06	2.7380E-06	2.7016E-06	2.6471E-06	2.6974E-06	2.6803E-06	0.0000E+00
NO	CVEH14_5	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6926E-06	2.7198E-06	2.6611E-06	2.6997E-06	2.8329E-06	2.7289E-06	2.6997E-06	2.7562E-06	2.7572E-06	2.7487E-06	2.6708E-06	2.6926E-06	2.7016E-06	2.6834E-06	2.6834E-06	2.6926E-06	0.0000E+00
NO	CVEH14_5	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7107E-06	2.7198E-06	2.7577E-06	2.8107E-06	2.8289E-06	2.8256E-06	2.8085E-06	2.8107E-06	2.8085E-06	2.7652E-06	2.7471E-06	2.7198E-06	2.6804E-06	2.7016E-06	2.6418E-06	2.7487E-06	0.0000E+00
NO	CVEH14_5	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0076E-06	3.0302E-06	3.0498E-06	3.0393E-06	3.0307E-06	3.0379E-06	3.0288E-06	3.0470E-06	3.0561E-06	3.0561E-06	3.0652E-06	3.0743E-06	3.0561E-06	3.0379E-06	3.0379E-06	3.0478E-06	0.0000E+00
NO	CVEH14_5	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0356E-06	3.0216E-06	3.0213E-06	3.0142E-06	2.9849E-06	2.9698E-06	2.9774E-06	2.9534E-06	2.9293E-06	2.9133E-06	2.8972E-06	2.8892E-06	2.8812E-06	2.8570E-06	2.8651E-06	3.0377E-06	0.0000E+00
NO	CVEH14_5	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1363E-06	3.1122E-06	3.0961E-06	3.1064E-06	3.1010E-06	3.0902E-06	3.0902E-06	3.1019E-06	3.0960E-06	3.1077E-06	3.0785E-06	3.1136E-06	3.1194E-06	3.0960E-06	3.1064E-06	3.1218E-06	0.0000E+00
NO	CVEH14_5	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2347E-06	3.2269E-06	3.2186E-06	3.2175E-06	3.2169E-06	3.2253E-06	3.2214E-06	3.2170E-06	3.2214E-06	3.2170E-06	3.2170E-06	3.2176E-06	3.2411E-06	3.2332E-06	3.2332E-06	3.2128E-06	0.0000E+00
NO	CVEH14_6	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1686E-06	3.1526E-06	3.1469E-06	3.1626E-06	3.1624E-06	3.1542E-06	3.1452E-06	3.1409E-06	3.1266E-06	3.1363E-06	3.1184E-06	3.1094E-06	3.1004E-06	3.0914E-06	3.1138E-06	3.1497E-06	0.0000E+00
NO	CVEH14_6	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0331E-06	3.0242E-06	3.0377E-06	3.0260E-06	3.0041E-06	2.9862E-06	2.9753E-06	3.0190E-06	3.0027E-06	2.9793E-06	2.9443E-06	2.9268E-06	2.9682E-06	2.9685E-06	2.9733E-06	2.9685E-06	0.0000E+00
NO	CVEH14_6	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0655E-06	3.0706E-06	3.0757E-06	3.0573E-06	3.0354E-06	3.0300E-06	3.0194E-06	3.0398E-06	3.0245E-06	3.0092E-06	2.9753E-06	2.9643E-06	2.9370E-06	2.9477E-06	2.9316E-06	2.9631E-06	0.0000E+00
NO	CVEH14_6	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8743E-06	2.8977E-06	2.8977E-06	2.9151E-06	2.9268E-06	2.9151E-06	2.9151E-06	2.9111E-06	2.8986E-06	2.8986E-06	2.8613E-06	2.8675E-06	2.8800E-06	2.8488E-06	2.8613E-06	2.8488E-06	0.0000E+00
NO	CVEH14_6	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9485E-06	2.9087E-06	2.9286E-06	2.9153E-06	2.9087E-06	2.8887E-06	2.8887E-06	2.9153E-06	2.9153E-06	2.9020E-06	2.8887E-06	2.8954E-06	2.8422E-06	2.8356E-06	2.8289E-06	2.8422E-06	0.0000E+00
NO	CVEH14_6	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8265E-06	2.8089E-06	2.7848E-06	2.7848E-06	2.7928E-06	2.8000E-06	2.7743E-06	2.7925E-06	2.7652E-06	2.7914E-06	2.8198E-06	2.7380E-06	2.7016E-06	2.6471E-06	2.6974E-06	2.6803E-06	0.0000E+00
NO	CVEH14_6	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6926E-06	2.7198E-06	2.6611E-06	2.6997E-06	2.8329E-06	2.7289E-06	2.6997E-06	2.7562E-06	2.7572E-06	2.7487E-06	2.6708E-06	2.6926E-06	2.7016E-06	2.6834E-06	2.6834E-06	2.6926E-06	0.0000E+00
NO	CVEH14_6	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7107E-06	2.7198E-06	2.7577E-06	2.8107E-06	2.8289E-06	2.8256E-06	2.8085E-06	2.8107E-06	2.8085E-06	2.7652E-06	2.7471E-06	2.7198E-06	2.6804E-06	2.7016E-06	2.6418E-06	2.7487E-06	0.0000E+00
NO	CVEH14_6	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0076E-06	3.0302E-06	3.0498E-06	3.0393E-06	3.0307E-06	3.0379E-06	3.0288E-06	3.0470E-06	3.0561E-06	3.0561E-06	3.0652E-06	3.0743E-06	3.0561E-06	3.0379E-06	3.0379E-06	3.0478E-06	0.0000E+00
NO	CVEH14_6	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0356E-06	3.0216E-06	3.0213E-06	3.0142E-06	2.9849E-06	2.9698E-06	2.9774E-06	2.9534E-06	2.9293E-06	2.9133E-06	2.8972E-06	2.8892E-06	2.8812E-06	2.8570E-06	2.8651E-06	3.0377E-06	0.0000E+00
NO	CVEH14_6	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1363E-06	3.1122E-06	3.0961E-06	3.1064E-06	3.1010E-06	3.0902E-06	3.0902E-06	3.1019E-06	3.0960E-06	3.1077E-06	3.0785E-06	3.1136E-06	3.1194E-06	3.0960E-06	3.1064E-06	3.1218E-06	0.0000E+00
NO	CVEH14_6	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2347E-06	3.2269E-06	3.2186E-06	3.2175E-06	3.2169E-06	3.2253E-06	3.2214E-06	3.2170E-06	3.2214E-06	3.2170E-06	3.2170E-06	3.2176E-06	3.2411E-06	3.2332E-06	3.2332E-06	3.2128E-06	0.0000E+00
NO	CVEH14_7	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3372E-06	6.3051E-06	6.2939E-06	6.3252E-06	6.3248E-06	6.3084E-06	6.2905E-06	6.2819E-06	6.2532E-06	6.2725E-06	6.2367E-06	6.2187E-06	6.2007E-06	6.1828E-06	6.2277E-06	6.2994E-06	0.0000E+00
NO	CVEH14_7	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.0663E-06	6.0484E-06	6.0753E-06	6.0519E-06	6.0081E-06	5.9724E-06	5.9505E-06	6.0380E-06	6.0053E-06	5.9587E-06	5.8887E-06	5.8537E-06	5.9364E-06	5.9370E-06	5.9465E-06	5.9370E-06	0.0000E+00
NO	CVEH14_7	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.1309E-06	6.1412E-06	6.1514E-06	6.1146E-06	6.0708E-06	6.0599E-06	6.0388E-06	6.0797E-06	6.0490E-06	6.0183E-06	5.9505E-06	5.9287E-06	5.8740E-06	5.8955E-06	5.8631E-06	5.9262E-06	0.0000E+00
NO	CVEH14_7	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7486E-06	5.7953E-06	5.7953E-06	5.8303E-06	5.8537E-06	5.8303E-06	5.8303E-06	5.8221E-06	5.7973E-06	5.7973E-06	5.7225E-06	5.7350E-06	5.7599E-06	5.6977E-06	5.7225E-06	5.6977E-06	0.0000E+00
NO	CVEH14_7	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.8969E-06	5.8173E-06	5.8571E-06	5.8306E-06	5.8173E-06	5.7774E-06	5.7774E-06	5.8306E-06	5.8306E-06	5.8040E-06	5.7774E-06	5.7907E-06	5.6845E-06	5.6712E-06	5.6579E-06	5.6845E-06	0.0000E+00
NO	CVEH14_7	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6530E-06	5.6178E-06	5.5696E-06	5.5696E-06	5.5856E-06	5.6000E-06	5.5487E-06	5.5850E-06	5.5305E-06	5.5829E-06	5.6396E-06	5.4759E-06	5.4032E-06	5.2942E-06	5.3948E-06	5.3607E-06	0.0000E+00
NO	CVEH14_7	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3851E-06	5.4396E-06	5.3222E-06	5.3995E-06	5.6659E-06	5.4578E-06	5.3995E-06	5.5123E-06	5.5145E-06	5.4974E-06	5.3415E-06	5.3851E-06	5.4032E-06	5.3669E-06	5.3669E-06	5.3851E-06	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	CVEH14_7	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4214E-06	5.4396E-06	5.5154E-06	5.6214E-06	5.6578E-06	5.6512E-06	5.6171E-06	5.6214E-06	5.6171E-06	5.5305E-06	5.4942E-06	5.4396E-06	5.3608E-06	5.4032E-06	5.2836E-06	5.4974E-06	0.0000E+00
NO	CVEH14_7	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.0151E-06	6.0603E-06	6.0996E-06	6.0786E-06	6.0614E-06	6.0759E-06	6.0577E-06	6.0940E-06	6.1122E-06	6.1122E-06	6.1304E-06	6.1486E-06	6.1122E-06	6.0759E-06	6.0759E-06	6.0957E-06	0.0000E+00
NO	CVEH14_7	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.0713E-06	6.0431E-06	6.0426E-06	6.0284E-06	5.9698E-06	5.9396E-06	5.9548E-06	5.9069E-06	5.8587E-06	5.8266E-06	5.7944E-06	5.7784E-06	5.7623E-06	5.7141E-06	5.7302E-06	6.0754E-06	0.0000E+00
NO	CVEH14_7	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2725E-06	6.2244E-06	6.1923E-06	6.2128E-06	6.2019E-06	6.1804E-06	6.1804E-06	6.2037E-06	6.1921E-06	6.2155E-06	6.1571E-06	6.2271E-06	6.2388E-06	6.1921E-06	6.2129E-06	6.2435E-06	0.0000E+00
NO	CVEH14_7	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.4694E-06	6.4539E-06	6.4371E-06	6.4350E-06	6.4339E-06	6.4507E-06	6.4429E-06	6.4339E-06	6.4429E-06	6.4339E-06	6.4339E-06	6.4352E-06	6.4821E-06	6.4664E-06	6.4664E-06	6.4255E-06	0.0000E+00
NO	CVEH14_8	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1686E-06	3.1526E-06	3.1469E-06	3.1626E-06	3.1624E-06	3.1542E-06	3.1452E-06	3.1409E-06	3.1266E-06	3.1363E-06	3.1184E-06	3.1094E-06	3.1004E-06	3.0914E-06	3.1138E-06	3.1497E-06	0.0000E+00
NO	CVEH14_8	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0331E-06	3.0242E-06	3.0377E-06	3.0260E-06	3.0041E-06	2.9862E-06	2.9753E-06	3.0190E-06	3.0027E-06	2.9793E-06	2.9443E-06	2.9268E-06	2.9682E-06	2.9685E-06	2.9733E-06	2.9685E-06	0.0000E+00
NO	CVEH14_8	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0655E-06	3.0706E-06	3.0757E-06	3.0573E-06	3.0354E-06	3.0300E-06	3.0194E-06	3.0398E-06	3.0245E-06	3.0092E-06	2.9753E-06	2.9643E-06	2.9370E-06	2.9477E-06	2.9316E-06	2.9631E-06	0.0000E+00
NO	CVEH14_8	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8743E-06	2.8977E-06	2.8977E-06	2.9151E-06	2.9268E-06	2.9151E-06	2.9151E-06	2.9111E-06	2.8986E-06	2.8986E-06	2.8613E-06	2.8675E-06	2.8800E-06	2.8488E-06	2.8613E-06	2.8488E-06	0.0000E+00
NO	CVEH14_8	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9485E-06	2.9087E-06	2.9286E-06	2.9153E-06	2.9087E-06	2.8887E-06	2.8887E-06	2.9153E-06	2.9153E-06	2.9020E-06	2.8887E-06	2.8954E-06	2.8422E-06	2.8356E-06	2.8289E-06	2.8422E-06	0.0000E+00
NO	CVEH14_8	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8265E-06	2.8089E-06	2.7848E-06	2.7848E-06	2.7928E-06	2.8000E-06	2.7743E-06	2.7925E-06	2.7652E-06	2.7914E-06	2.8198E-06	2.7380E-06	2.7016E-06	2.6471E-06	2.6974E-06	2.6803E-06	0.0000E+00
NO	CVEH14_8	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6926E-06	2.7198E-06	2.6611E-06	2.6997E-06	2.8329E-06	2.7289E-06	2.6997E-06	2.7562E-06	2.7572E-06	2.7487E-06	2.6708E-06	2.6926E-06	2.7016E-06	2.6834E-06	2.6834E-06	2.6926E-06	0.0000E+00
NO	CVEH14_8	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7107E-06	2.7198E-06	2.7577E-06	2.8107E-06	2.8289E-06	2.8256E-06	2.8085E-06	2.8107E-06	2.8085E-06	2.7652E-06	2.7471E-06	2.7198E-06	2.6804E-06	2.7016E-06	2.6418E-06	2.7487E-06	0.0000E+00
NO	CVEH14_8	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0076E-06	3.0302E-06	3.0498E-06	3.0393E-06	3.0307E-06	3.0379E-06	3.0288E-06	3.0470E-06	3.0561E-06	3.0561E-06	3.0652E-06	3.0743E-06	3.0561E-06	3.0379E-06	3.0379E-06	3.0478E-06	0.0000E+00
NO	CVEH14_8	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0356E-06	3.0216E-06	3.0213E-06	3.0142E-06	2.9849E-06	2.9698E-06	2.9774E-06	2.9534E-06	2.9293E-06	2.9133E-06	2.8972E-06	2.8892E-06	2.8812E-06	2.8570E-06	2.8651E-06	3.0377E-06	0.0000E+00
NO	CVEH14_8	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1363E-06	3.1122E-06	3.0961E-06	3.1064E-06	3.1010E-06	3.0902E-06	3.0902E-06	3.1019E-06	3.0960E-06	3.1077E-06	3.0785E-06	3.1136E-06	3.1194E-06	3.0960E-06	3.1064E-06	3.1218E-06	0.0000E+00
NO	CVEH14_8	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2347E-06	3.2269E-06	3.2186E-06	3.2175E-06	3.2169E-06	3.2253E-06	3.2214E-06	3.2170E-06	3.2214E-06	3.2170E-06	3.2170E-06	3.2176E-06	3.2411E-06	3.2332E-06	3.2332E-06	3.2128E-06	0.0000E+00
NO	CVEH15_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4922E-06	5.4644E-06	5.4547E-06	5.4818E-06	5.4815E-06	5.4673E-06	5.4517E-06	5.4443E-06	5.4194E-06	5.4362E-06	5.4052E-06	5.3896E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2575E-06	5.2419E-06	5.2653E-06	5.2450E-06	5.2070E-06	5.1761E-06	5.1571E-06	5.2329E-06	5.2046E-06	5.1642E-06	5.1035E-06	5.0732E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3135E-06	5.3223E-06	5.3312E-06	5.2993E-06	5.2614E-06	5.2519E-06	5.2336E-06	5.2691E-06	5.2425E-06	5.2159E-06	5.1571E-06	5.1382E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9821E-06	5.0226E-06	5.0226E-06	5.0529E-06	5.0732E-06	5.0529E-06	5.0529E-06	5.0458E-06	5.0243E-06	5.0243E-06	4.9595E-06	4.9703E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1107E-06	5.0417E-06	5.0762E-06	5.0532E-06	5.0417E-06	5.0071E-06	5.0071E-06	5.0532E-06	5.0532E-06	5.0301E-06	5.0071E-06	5.0186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8993E-06	4.8687E-06	4.8270E-06	4.8270E-06	4.8409E-06	4.8533E-06	4.8088E-06	4.8404E-06	4.7931E-06	4.8385E-06	4.8876E-06	4.7458E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6671E-06	4.7143E-06	4.6126E-06	4.6796E-06	4.9104E-06	4.7301E-06	4.6796E-06	4.7774E-06	4.7792E-06	4.7644E-06	4.6293E-06	4.6671E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6986E-06	4.7143E-06	4.7800E-06	4.8719E-06	4.9034E-06	4.8977E-06	4.8681E-06	4.8719E-06	4.8681E-06	4.7931E-06	4.7617E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2131E-06	5.2523E-06	5.2863E-06	5.2681E-06	5.2532E-06	5.2658E-06	5.2500E-06	5.2815E-06	5.2972E-06	5.2972E-06	5.3130E-06	5.3288E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2618E-06	5.2374E-06	5.2369E-06	5.2247E-06	5.1739E-06	5.1477E-06	5.1608E-06	5.1193E-06	5.0775E-06	5.0497E-06	5.0218E-06	5.0079E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4362E-06	5.3945E-06	5.3666E-06	5.3844E-06	5.3750E-06	5.3563E-06	5.3563E-06	5.3766E-06	5.3665E-06	5.3867E-06	5.3361E-06	5.3968E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6068E-06	5.5933E-06	5.5788E-06	5.5770E-06	5.5760E-06	5.5906E-06	5.5838E-06	5.5761E-06	5.5838E-06	5.5761E-06	5.5761E-06	5.5772E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4922E-06	5.4644E-06	5.4547E-06	5.4818E-06	5.4815E-06	5.4673E-06	5.4517E-06	5.4443E-06	5.4194E-06	5.4362E-06	5.4052E-06	5.3896E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2575E-06	5.2419E-06	5.2653E-06	5.2450E-06	5.2070E-06	5.1761E-06	5.1571E-06	5.2329E-06	5.2046E-06	5.1642E-06	5.1035E-06	5.0732E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3135E-06	5.3223E-06	5.3312E-06	5.2993E-06	5.2614E-06	5.2519E-06	5.2336E-06	5.2691E-06	5.2425E-06	5.2159E-06	5.1571E-06	5.1382E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9821E-06	5.0226E-06	5.0226E-06	5.0529E-06	5.0732E-06	5.0529E-06	5.0529E-06	5.0458E-06	5.0243E-06	5.0243E-06	4.9595E-06	4.9703E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1107E-06	5.0417E-06	5.0762E-06	5.0532E-06	5.0417E-06	5.0071E-06	5.0071E-06	5.0532E-06	5.0532E-06	5.0301E-06	5.0071E-06	5.0186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8993E-06	4.8687E-06	4.8270E-06	4.8270E-06	4.8409E-06	4.8533E-06	4.8088E-06	4.8404E-06	4.7931E-06	4.8385E-06	4.8876E-06	4.7458E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6671E-06	4.7143E-06	4.6126E-06	4.6796E-06	4.9104E-06	4.7301E-06	4.6796E-06	4.7774E-06	4.7792E-06	4.7644E-06	4.6293E-06	4.6671E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6986E-06	4.7143E-06	4.7800E-06	4.8719E-06	4.9034E-06	4.8977E-06	4.8681E-06	4.8719E-06	4.8681E-06	4.7931E-06	4.7617E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2131E-06	5.2523E-06	5.2863E-06	5.2681E-06	5.2532E-06	5.2658E-06	5.2500E-06	5.2815E-06	5.2972E-06	5.2972E-06	5.3130E-06	5.3288E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2618E-06	5.2374E-06	5.2369E-06	5.2247E-06	5.1739E-06	5.1477E-06	5.1608E-06	5.1193E-06	5.0775E-06	5.0497E-06	5.0218E-06	5.0079E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4362E-06	5.3945E-06	5.3666E-06	5.3844E-06	5.3750E-06	5.3563E-06	5.3563E-06	5.3766E-06	5.3665E-06	5.3867E-06	5.3361E-06	5.3968E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6068E-06	5.5933E-06	5.5788E-06	5.5770E-06	5.5760E-06	5.5906E-06	5.5838E-06	5.5761E-06	5.5838E-06	5.5761E-06	5.5761E-06	5.5772E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4922E-06	5.4644E-06	5.4547E-06	5.4818E-06	5.4815E-06	5.4673E-06	5.4517E-06	5.4443E-06	5.4194E-06	5.4362E-06	5.4052E-06	5.3896E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2575E-06	5.2419E-06	5.2653E-06	5.2450E-06	5.2070E-06	5.1761E-06	5.1571E-06	5.2329E-06	5.2046E-06	5.1642E-06	5.1035E-06	5.0732E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3135E-06	5.3223E-06	5.3312E-06	5.2993E-06	5.2614E-06	5.2519E-06	5.2336E-06	5.2691E-06	5.2425E-06	5.2159E-06	5.1571E-06	5.1382E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9821E-06	5.0226E-06	5.0226E-06	5.0529E-06	5.0732E-06	5.0529E-06	5.0529E-06	5.0458E-06	5.0243E-06	5.0243E-06	4.9595E-06	4.9703E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1107E-06	5.0417E-06	5.0762E-06	5.0532E-06	5.0417E-06	5.0071E-06	5.0071E-06	5.0532E-06	5.0532E-06	5.0301E-06	5.0071E-06	5.0186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8993E-06	4.8687E-06	4.8270E-06	4.8270E-06	4.8409E-06	4.8533E-06	4.8088E-06	4.8404E-06	4.7931E-06	4.8385E-06	4.8876E-06	4.7458E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6671E-06	4.7143E-06	4.6126E-06	4.6796E-06	4.9104E-06	4.7301E-06	4.6796E-06	4.7774E-06	4.7792E-06	4.7644E-06	4.6293E-06	4.6671E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6986E-06	4.7143E-06	4.7800E-06	4.8719E-06	4.9034E-06	4.8977E-06	4.8681E-06	4.8719E-06	4.8681E-06	4.7931E-06	4.7617E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2131E-06	5.2523E-06	5.2863E-06	5.2681E-06	5.2532E-06	5.2658E-06	5.2500E-06	5.2815E-06	5.2972E-06	5.2972E-06	5.3130E-06	5.3288E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2618E-06	5.2374E-06	5.2369E-06	5.2247E-06	5.1739E-06	5.1477E-06	5.1608E-06	5.1193E-06	5.0775E-06	5.0497E-06	5.0218E-06	5.0079E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4362E-06	5.3945E-06	5.3666E-06	5.3844E-06	5.3750E-06	5.3563E-06	5.3563E-06	5.3766E-06	5.3665E-06	5.3867E-06	5.3361E-06	5.3968E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6068E-06	5.5933E-06	5.5788E-06	5.5770E-06	5.5760E-06	5.5906E-06	5.5838E-06	5.5761E-06	5.5838E-06	5.5761E-06	5.5761E-06	5.5772E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4922E-06	5.4644E-06	5.4547E-06	5.4818E-06	5.4815E-06	5.4673E-06	5.4517E-06	5.4443E-06	5.4194E-06	5.4362E-06	5.4052E-06	5.3896E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2575E-06	5.2419E-06	5.2653E-06	5.2450E-06	5.2070E-06	5.1761E-06	5.1571E-06	5.2329E-06	5.2046E-06	5.1642E-06	5.1035E-06	5.0732E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3135E-06	5.3223E-06	5.3312E-06	5.2993E-06	5.2614E-06	5.2519E-06	5.2336E-06	5.2691E-06	5.2425E-06	5.2159E-06	5.1571E-06	5.1382E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9821E-06	5.0226E-06	5.0226E-06	5.0529E-06	5.0732E-06	5.0529E-06	5.0529E-06	5.0458E-06	5.0243E-06	5.0243E-06	4.9595E-06	4.9703E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1107E-06	5.0417E-06	5.0762E-06	5.0532E-06	5.0417E-06	5.0071E-06	5.0071E-06	5.0532E-06	5.0532E-06	5.0301E-06	5.0071E-06	5.0186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8993E-06	4.8687E-06	4.8270E-06	4.8270E-06	4.8409E-06	4.8533E-06	4.8088E-06	4.8404E-06	4.7931E-06	4.8385E-06	4.8876E-06	4.7458E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6671E-06	4.7143E-06	4.6126E-06	4.6796E-06	4.9104E-06	4.7301E-06	4.6796E-06	4.7774E-06	4.7792E-06	4.7644E-06	4.6293E-06	4.6671E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6986E-06	4.7143E-06	4.7800E-06	4.8719E-06	4.9034E-06	4.8977E-06	4.8681E-06	4.8719E-06	4.8681E-06	4.7931E-06	4.7617E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2131E-06	5.2523E-06	5.2863E-06	5.2681E-06	5.2532E-06	5.2658E-06	5.2500E-06	5.2815E-06	5.2972E-06	5.2972E-06	5.3130E-06	5.3288E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2618E-06	5.2374E-06	5.2369E-06	5.2247E-06	5.1739E-06	5.1477E-06	5.1608E-06	5.1193E-06	5.0775E-06	5.0497E-06	5.0218E-06	5.0079E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4362E-06	5.3945E-06	5.3666E-06	5.3844E-06	5.3750E-06	5.3563E-06	5.3563E-06	5.3766E-06	5.3665E-06	5.3867E-06	5.3361E-06	5.3968E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6068E-06	5.5933E-06	5.5788E-06	5.5770E-06	5.5760E-06	5.5906E-06	5.5838E-06	5.5761E-06	5.5838E-06	5.5761E-06	5.5761E-06	5.5772E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0984E-05	1.0929E-05	1.0909E-05	1.0964E-05	1.0963E-05	1.0935E-05	1.0903E-05	1.0889E-05	1.0839E-05	1.0872E-05	1.0810E-05	1.0779E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0515E-05	1.0484E-05	1.0531E-05	1.0490E-05	1.0414E-05	1.0352E-05	1.0314E-05	1.0466E-05	1.0409E-05	1.0328E-05	1.0207E-05	1.0146E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0627E-05	1.0645E-05	1.0662E-05	1.0599E-05	1.0523E-05	1.0504E-05	1.0467E-05	1.0538E-05	1.0485E-05	1.0432E-05	1.0314E-05	1.0276E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9642E-06	1.0045E-05	1.0045E-05	1.0106E-05	1.0146E-05	1.0106E-05	1.0106E-05	1.0092E-05	1.0049E-05	1.0049E-05	9.9191E-06	9.9406E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0221E-05	1.0083E-05	1.0152E-05	1.0106E-05	1.0083E-05	1.0014E-05	1.0014E-05	1.0106E-05	1.0106E-05	1.0060E-05	1.0014E-05	1.0037E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7986E-06	9.7374E-06	9.6539E-06	9.6539E-06	9.6817E-06	9.7066E-06	9.6177E-06	9.6807E-06	9.5861E-06	9.6770E-06	9.7752E-06	9.4916E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3342E-06	9.4287E-06	9.2251E-06	9.3591E-06	9.8209E-06	9.4602E-06	9.3591E-06	9.5547E-06	9.5584E-06	9.5288E-06	9.2586E-06	9.3342E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3972E-06	9.4287E-06	9.5600E-06	9.7438E-06	9.8068E-06	9.7955E-06	9.7362E-06	9.7438E-06	9.7362E-06	9.5861E-06	9.5233E-06	9.4287E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0426E-05	1.0505E-05	1.0573E-05	1.0536E-05	1.0506E-05	1.0532E-05	1.0500E-05	1.0563E-05	1.0594E-05	1.0594E-05	1.0626E-05	1.0658E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0524E-05	1.0475E-05	1.0474E-05	1.0449E-05	1.0348E-05	1.0295E-05	1.0322E-05	1.0239E-05	1.0155E-05	1.0099E-05	1.0044E-05	1.0016E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0872E-05	1.0789E-05	1.0733E-05	1.0769E-05	1.0750E-05	1.0713E-05	1.0713E-05	1.0753E-05	1.0733E-05	1.0773E-05	1.0672E-05	1.0794E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1214E-05	1.1187E-05	1.1158E-05	1.1154E-05	1.1152E-05	1.1181E-05	1.1168E-05	1.1152E-05	1.1168E-05	1.1152E-05	1.1152E-05	1.1154E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0984E-05	1.0929E-05	1.0909E-05	1.0964E-05	1.0963E-05	1.0935E-05	1.0903E-05	1.0889E-05	1.0839E-05	1.0872E-05	1.0810E-05	1.0779E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0515E-05	1.0484E-05	1.0531E-05	1.0490E-05	1.0414E-05	1.0352E-05	1.0314E-05	1.0466E-05	1.0409E-05	1.0328E-05	1.0207E-05	1.0146E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	CVEH15_6	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0627E-05	1.0645E-05	1.0662E-05	1.0599E-05	1.0523E-05	1.0504E-05	1.0467E-05	1.0538E-05	1.0485E-05	1.0432E-05	1.0314E-05	1.0276E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9642E-06	1.0045E-05	1.0045E-05	1.0106E-05	1.0146E-05	1.0106E-05	1.0106E-05	1.0092E-05	1.0049E-05	1.0049E-05	9.9191E-06	9.9406E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0221E-05	1.0083E-05	1.0152E-05	1.0106E-05	1.0083E-05	1.0014E-05	1.0014E-05	1.0106E-05	1.0106E-05	1.0060E-05	1.0014E-05	1.0037E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7986E-06	9.7374E-06	9.6539E-06	9.6539E-06	9.6817E-06	9.7066E-06	9.6177E-06	9.6807E-06	9.5861E-06	9.6770E-06	9.7752E-06	9.4916E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3342E-06	9.4287E-06	9.2251E-06	9.3591E-06	9.8209E-06	9.4602E-06	9.3591E-06	9.5547E-06	9.5584E-06	9.5288E-06	9.2586E-06	9.3342E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3972E-06	9.4287E-06	9.5600E-06	9.7438E-06	9.8068E-06	9.7955E-06	9.7362E-06	9.7438E-06	9.7362E-06	9.5861E-06	9.5233E-06	9.4287E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0426E-05	1.0505E-05	1.0573E-05	1.0536E-05	1.0506E-05	1.0532E-05	1.0500E-05	1.0563E-05	1.0594E-05	1.0594E-05	1.0626E-05	1.0658E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0524E-05	1.0475E-05	1.0474E-05	1.0449E-05	1.0348E-05	1.0295E-05	1.0322E-05	1.0239E-05	1.0155E-05	1.0099E-05	1.0044E-05	1.0016E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0872E-05	1.0789E-05	1.0733E-05	1.0769E-05	1.0750E-05	1.0713E-05	1.0713E-05	1.0753E-05	1.0733E-05	1.0773E-05	1.0672E-05	1.0794E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1214E-05	1.1187E-05	1.1158E-05	1.1154E-05	1.1152E-05	1.1181E-05	1.1168E-05	1.1152E-05	1.1168E-05	1.1152E-05	1.1152E-05	1.1154E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0984E-05	1.0929E-05	1.0909E-05	1.0964E-05	1.0963E-05	1.0935E-05	1.0903E-05	1.0889E-05	1.0839E-05	1.0872E-05	1.0810E-05	1.0779E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0515E-05	1.0484E-05	1.0531E-05	1.0490E-05	1.0414E-05	1.0352E-05	1.0314E-05	1.0466E-05	1.0409E-05	1.0328E-05	1.0207E-05	1.0146E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0627E-05	1.0645E-05	1.0662E-05	1.0599E-05	1.0523E-05	1.0504E-05	1.0467E-05	1.0538E-05	1.0485E-05	1.0432E-05	1.0314E-05	1.0276E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9642E-06	1.0045E-05	1.0045E-05	1.0106E-05	1.0146E-05	1.0106E-05	1.0106E-05	1.0092E-05	1.0049E-05	1.0049E-05	9.9191E-06	9.9406E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0221E-05	1.0083E-05	1.0152E-05	1.0106E-05	1.0083E-05	1.0014E-05	1.0014E-05	1.0106E-05	1.0106E-05	1.0060E-05	1.0014E-05	1.0037E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7986E-06	9.7374E-06	9.6539E-06	9.6539E-06	9.6817E-06	9.7066E-06	9.6177E-06	9.6807E-06	9.5861E-06	9.6770E-06	9.7752E-06	9.4916E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3342E-06	9.4287E-06	9.2251E-06	9.3591E-06	9.8209E-06	9.4602E-06	9.3591E-06	9.5547E-06	9.5584E-06	9.5288E-06	9.2586E-06	9.3342E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3972E-06	9.4287E-06	9.5600E-06	9.7438E-06	9.8068E-06	9.7955E-06	9.7362E-06	9.7438E-06	9.7362E-06	9.5861E-06	9.5233E-06	9.4287E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0426E-05	1.0505E-05	1.0573E-05	1.0536E-05	1.0506E-05	1.0532E-05	1.0500E-05	1.0563E-05	1.0594E-05	1.0594E-05	1.0626E-05	1.0658E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0524E-05	1.0475E-05	1.0474E-05	1.0449E-05	1.0348E-05	1.0295E-05	1.0322E-05	1.0239E-05	1.0155E-05	1.0099E-05	1.0044E-05	1.0016E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0872E-05	1.0789E-05	1.0733E-05	1.0769E-05	1.0750E-05	1.0713E-05	1.0713E-05	1.0753E-05	1.0733E-05	1.0773E-05	1.0672E-05	1.0794E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1214E-05	1.1187E-05	1.1158E-05	1.1154E-05	1.1152E-05	1.1181E-05	1.1168E-05	1.1152E-05	1.1168E-05	1.1152E-05	1.1152E-05	1.1154E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0984E-05	1.0929E-05	1.0909E-05	1.0964E-05	1.0963E-05	1.0935E-05	1.0903E-05	1.0889E-05	1.0839E-05	1.0872E-05	1.0810E-05	1.0779E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0515E-05	1.0484E-05	1.0531E-05	1.0490E-05	1.0414E-05	1.0352E-05	1.0314E-05	1.0466E-05	1.0409E-05	1.0328E-05	1.0207E-05	1.0146E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0627E-05	1.0645E-05	1.0662E-05	1.0599E-05	1.0523E-05	1.0504E-05	1.0467E-05	1.0538E-05	1.0485E-05	1.0432E-05	1.0314E-05	1.0276E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9642E-06	1.0045E-05	1.0045E-05	1.0106E-05	1.0146E-05	1.0106E-05	1.0106E-05	1.0092E-05	1.0049E-05	1.0049E-05	9.9191E-06	9.9406E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0221E-05	1.0083E-05	1.0152E-05	1.0106E-05	1.0083E-05	1.0014E-05	1.0014E-05	1.0106E-05	1.0106E-05	1.0060E-05	1.0014E-05	1.0037E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7986E-06	9.7374E-06	9.6539E-06	9.6539E-06	9.6817E-06	9.7066E-06	9.6177E-06	9.6807E-06	9.5861E-06	9.6770E-06	9.7752E-06	9.4916E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3342E-06	9.4287E-06	9.2251E-06	9.3591E-06	9.8209E-06	9.4602E-06	9.3591E-06	9.5547E-06	9.5584E-06	9.5288E-06	9.2586E-06	9.3342E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3972E-06	9.4287E-06	9.5600E-06	9.7438E-06	9.8068E-06	9.7955E-06	9.7362E-06	9.7438E-06	9.7362E-06	9.5861E-06	9.5233E-06	9.4287E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0426E-05	1.0505E-05	1.0573E-05	1.0536E-05	1.0506E-05	1.0532E-05	1.0500E-05	1.0563E-05	1.0594E-05	1.0594E-05	1.0626E-05	1.0658E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0524E-05	1.0475E-05	1.0474E-05	1.0449E-05	1.0348E-05	1.0295E-05	1.0322E-05	1.0239E-05	1.0155E-05	1.0099E-05	1.0044E-05	1.0016E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0872E-05	1.0789E-05	1.0733E-05	1.0769E-05	1.0750E-05	1.0713E-05	1.0713E-05	1.0753E-05	1.0733E-05	1.0773E-05	1.0672E-05	1.0794E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1214E-05	1.1187E-05	1.1158E-05	1.1154E-05	1.1152E-05	1.1181E-05	1.1168E-05	1.1152E-05	1.1168E-05	1.1152E-05	1.1152E-05	1.1154E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4922E-06	5.4644E-06	5.4547E-06	5.4818E-06	5.4815E-06	5.4673E-06	5.4517E-06	5.4443E-06	5.4194E-06	5.4362E-06	5.4052E-06	5.3896E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2575E-06	5.2419E-06	5.2653E-06	5.2450E-06	5.2070E-06	5.1761E-06	5.1571E-06	5.2329E-06	5.2046E-06	5.1642E-06	5.1035E-06	5.0732E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3135E-06	5.3223E-06	5.3312E-06	5.2993E-06	5.2614E-06	5.2519E-06	5.2336E-06	5.2691E-06	5.2425E-06	5.2159E-06	5.1571E-06	5.1382E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9821E-06	5.0226E-06	5.0226E-06	5.0529E-06	5.0732E-06	5.0529E-06	5.0529E-06	5.0458E-06	5.0243E-06	5.0243E-06	4.9595E-06	4.9703E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1107E-06	5.0417E-06	5.0762E-06	5.0532E-06	5.0417E-06	5.0071E-06	5.0071E-06	5.0532E-06	5.0532E-06	5.0301E-06	5.0071E-06	5.0186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8993E-06	4.8687E-06	4.8270E-06	4.8270E-06	4.8409E-06	4.8533E-06	4.8088E-06	4.8404E-06	4.7931E-06	4.8385E-06	4.8876E-06	4.7458E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6671E-06	4.7143E-06	4.6126E-06	4.6796E-06	4.9104E-06	4.7301E-06	4.6796E-06	4.7774E-06	4.7792E-06	4.7644E-06	4.6293E-06	4.6671E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6986E-06	4.7143E-06	4.7800E-06	4.8719E-06	4.9034E-06	4.8977E-06	4.8681E-06	4.8719E-06	4.8681E-06	4.7931E-06	4.7617E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2131E-06	5.2523E-06	5.2863E-06	5.2681E-06	5.2532E-06	5.2658E-06	5.2500E-06	5.2815E-06	5.2972E-06	5.2972E-06	5.3130E-06	5.3288E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2618E-06	5.2374E-06	5.2369E-06	5.2247E-06	5.1739E-06	5.1477E-06	5.1608E-06	5.1193E-06	5.0775E-06	5.0497E-06	5.0218E-06	5.0079E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4362E-06	5.3945E-06	5.3666E-06	5.3844E-06	5.3750E-06	5.3563E-06	5.3563E-06	5.3766E-06	5.3665E-06	5.3867E-06	5.3361E-06	5.3968E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6068E-06	5.5933E-06	5.5788E-06	5.5770E-06	5.5760E-06	5.5906E-06	5.5838E-06	5.5761E-06	5.5838E-06	5.5761E-06	5.5761E-06	5.5772E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH16_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2674E-06	1.2610E-06	1.2588E-06	1.2650E-06	1.2650E-06	1.2617E-06	1.2581E-06	1.2564E-06	1.2506E-06	1.2545E-06	1.2473E-06	1.2437E-06	1.2401E-06	1.2366E-06	1.2455E-06	1.2599E-06	0.0000E+00
NO	CVEH16_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2133E-06	1.2097E-06	1.2151E-06	1.2104E-06	1.2016E-06	1.1945E-06	1.1901E-06	1.2076E-06	1.2011E-06	1.1917E-06	1.1777E-06	1.1707E-06	1.1873E-06	1.1874E-06	1.1893E-06	1.1874E-06	0.0000E+00
NO	CVEH16_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2262E-06	1.2282E-06	1.2303E-06	1.2229E-06	1.2142E-06	1.2120E-06	1.2078E-06	1.2159E-06	1.2098E-06	1.2037E-06	1.1901E-06	1.1857E-06	1.1748E-06	1.1791E-06	1.1726E-06	1.1852E-06	0.0000E+00
NO	CVEH16_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1497E-06	1.1591E-06	1.1591E-06	1.1661E-06	1.1707E-06	1.1661E-06	1.1661E-06	1.1644E-06	1.1595E-06	1.1595E-06	1.1445E-06	1.1470E-06	1.1520E-06	1.1395E-06	1.1445E-06	1.1395E-06	0.0000E+00
NO	CVEH16_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1794E-06	1.1635E-06	1.1714E-06	1.1661E-06	1.1635E-06	1.1555E-06	1.1555E-06	1.1661E-06	1.1661E-06	1.1608E-06	1.1555E-06	1.1581E-06	1.1369E-06	1.1342E-06	1.1316E-06	1.1369E-06	0.0000E+00
NO	CVEH16_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1306E-06	1.1236E-06	1.1139E-06	1.1139E-06	1.1171E-06	1.1200E-06	1.1097E-06	1.1170E-06	1.1061E-06	1.1166E-06	1.1279E-06	1.0952E-06	1.0806E-06	1.0588E-06	1.0790E-06	1.0721E-06	0.0000E+00
NO	CVEH16_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0770E-06	1.0879E-06	1.0644E-06	1.0799E-06	1.1332E-06	1.0916E-06	1.0799E-06	1.1025E-06	1.1029E-06	1.0995E-06	1.0683E-06	1.0770E-06	1.0806E-06	1.0734E-06	1.0734E-06	1.0770E-06	0.0000E+00
NO	CVEH16_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0843E-06	1.0879E-06	1.1031E-06	1.1243E-06	1.1316E-06	1.1302E-06	1.1234E-06	1.1243E-06	1.1234E-06	1.1061E-06	1.0988E-06	1.0879E-06	1.0722E-06	1.0806E-06	1.0567E-06	1.0995E-06	0.0000E+00
NO	CVEH16_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2030E-06	1.2121E-06	1.2199E-06	1.2157E-06	1.2123E-06	1.2152E-06	1.2115E-06	1.2188E-06	1.2224E-06	1.2224E-06	1.2261E-06	1.2297E-06	1.2224E-06	1.2152E-06	1.2152E-06	1.2191E-06	0.0000E+00
NO	CVEH16_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2143E-06	1.2086E-06	1.2085E-06	1.2057E-06	1.1940E-06	1.1879E-06	1.1910E-06	1.1814E-06	1.1717E-06	1.1653E-06	1.1589E-06	1.1557E-06	1.1525E-06	1.1428E-06	1.1460E-06	1.2151E-06	0.0000E+00
NO	CVEH16_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2545E-06	1.2449E-06	1.2385E-06	1.2426E-06	1.2404E-06	1.2361E-06	1.2361E-06	1.2407E-06	1.2384E-06	1.2431E-06	1.2314E-06	1.2454E-06	1.2478E-06	1.2384E-06	1.2426E-06	1.2487E-06	0.0000E+00
NO	CVEH16_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2939E-06	1.2908E-06	1.2874E-06	1.2870E-06	1.2868E-06	1.2901E-06	1.2886E-06	1.2868E-06	1.2886E-06	1.2868E-06	1.2868E-06	1.2870E-06	1.2964E-06	1.2933E-06	1.2933E-06	1.2851E-06	0.0000E+00
NO	CVEH16_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2674E-06	1.2610E-06	1.2588E-06	1.2650E-06	1.2650E-06	1.2617E-06	1.2581E-06	1.2564E-06	1.2506E-06	1.2545E-06	1.2473E-06	1.2437E-06	1.2401E-06	1.2366E-06	1.2455E-06	1.2599E-06	0.0000E+00
NO	CVEH16_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2133E-06	1.2097E-06	1.2151E-06	1.2104E-06	1.2016E-06	1.1945E-06	1.1901E-06	1.2076E-06	1.2011E-06	1.1917E-06	1.1777E-06	1.1707E-06	1.1873E-06	1.1874E-06	1.1893E-06	1.1874E-06	0.0000E+00
NO	CVEH16_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2262E-06	1.2282E-06	1.2303E-06	1.2229E-06	1.2142E-06	1.2120E-06	1.2078E-06	1.2159E-06	1.2098E-06	1.2037E-06	1.1901E-06	1.1857E-06	1.1748E-06	1.1791E-06	1.1726E-06	1.1852E-06	0.0000E+00
NO	CVEH16_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1497E-06	1.1591E-06	1.1591E-06	1.1661E-06	1.1707E-06	1.1661E-06	1.1661E-06	1.1644E-06	1.1595E-06	1.1595E-06	1.1445E-06	1.1470E-06	1.1520E-06	1.1395E-06	1.1445E-06	1.1395E-06	0.0000E+00
NO	CVEH16_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1794E-06	1.1635E-06	1.1714E-06	1.1661E-06	1.1635E-06	1.1555E-06	1.1555E-06	1.1661E-06	1.1661E-06	1.1608E-06	1.1555E-06	1.1581E-06	1.1369E-06	1.1342E-06	1.1316E-06	1.1369E-06	0.0000E+00
NO	CVEH16_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1306E-06	1.1236E-06	1.1139E-06	1.1139E-06	1.1171E-06	1.1200E-06	1.1097E-06	1.1170E-06	1.1061E-06	1.1166E-06	1.1279E-06	1.0952E-06	1.0806E-06	1.0588E-06	1.0790E-06	1.0721E-06	0.0000E+00
NO	CVEH16_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0770E-06	1.0879E-06	1.0644E-06	1.0799E-06	1.1332E-06	1.0916E-06	1.0799E-06	1.1025E-06	1.1029E-06	1.0995E-06	1.0683E-06	1.0770E-06	1.0806E-06	1.0734E-06	1.0734E-06	1.0770E-06	0.0000E+00
NO	CVEH16_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0843E-06	1.0879E-06	1.1031E-06	1.1243E-06	1.1316E-06	1.1302E-06	1.1234E-06	1.1243E-06	1.1234E-06	1.1061E-06	1.0988E-06	1.0879E-06	1.0722E-06	1.0806E-06	1.0567E-06	1.0995E-06	0.0000E+00
NO	CVEH16_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2030E-06	1.2121E-06	1.2199E-06	1.2157E-06	1.2123E-06	1.2152E-06	1.2115E-06	1.2188E-06	1.2224E-06	1.2224E-06	1.2261E-06	1.2297E-06	1.2224E-06	1.2152E-06	1.2152E-06	1.2191E-06	0.0000E+00
NO	CVEH16_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2143E-06	1.2086E-06	1.2085E-06	1.2057E-06	1.1940E-06	1.1879E-06	1.1910E-06	1.1814E-06	1.1717E-06	1.1653E-06	1.1589E-06	1.1557E-06	1.1525E-06	1.1428E-06	1.1460E-06	1.2151E-06	0.0000E+00
NO	CVEH16_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2545E-06	1.2449E-06	1.2385E-06	1.2426E-06	1.2404E-06	1.2361E-06	1.2361E-06	1.2407E-06	1.2384E-06	1.2431E-06	1.2314E-06	1.2454E-06	1.2478E-06	1.2384E-06	1.2426E-06	1.2487E-06	0.0000E+00
NO	CVEH16_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2939E-06	1.2908E-06	1.2874E-06	1.2870E-06	1.2868E-06	1.2901E-06	1.2886E-06	1.2868E-06	1.2886E-06	1.2868E-06	1.2868E-06	1.2870E-06	1.2964E-06	1.2933E-06	1.2933E-06	1.2851E-06	0.0000E+00
NO	R1a_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.0701E-06	9.0675E-06	9.1405E-06	9.1616E-06	9.1552E-06	9.1885E-06	9.0794E-06	9.0080E-06	9.0216E-06	8.9380E-06	8.8881E-06	8.8546E-06	8.8379E-06	8.9584E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6374E-06	8.7043E-06	8.6510E-06	8.5382E-06	8.5994E-06	8.6400E-06	8.5442E-06	8.6400E-06	8.5382E-06	8.3050E-06	8.2181E-06	8.4370E-06	8.3654E-06	8.3654E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8246E-06	8.8436E-06	8.8030E-06	8.7215E-06	8.7012E-06	8.6911E-06	8.7101E-06	8.6529E-06	8.5956E-06	8.4569E-06	8.4433E-06	8.3478E-06	8.3288E-06	8.3288E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1964E-06	8.2614E-06	8.3702E-06	8.4354E-06	8.4138E-06	8.3248E-06	8.3017E-06	8.2552E-06	8.2321E-06	8.0696E-06	8.0232E-06	8.0696E-06	7.9769E-06	7.9769E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.2307E-06	8.3790E-06	8.3048E-06	8.2801E-06	8.1837E-06	8.2801E-06	8.2554E-06	8.2801E-06	8.1811E-06	8.1070E-06	8.0822E-06	7.9090E-06	7.8596E-06	7.8843E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9147E-06	7.9746E-06	7.8848E-06	7.9250E-06	8.0129E-06	7.9765E-06	7.9791E-06	7.6886E-06	7.9250E-06	7.9113E-06	7.5727E-06	7.4036E-06	7.3838E-06	7.3521E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5052E-06	7.5727E-06	7.7422E-06	8.0942E-06	7.7422E-06	7.6527E-06	7.7422E-06	7.7976E-06	7.6704E-06	7.4007E-06	7.4374E-06	7.4374E-06	7.3697E-06	7.3358E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6405E-06	7.7965E-06	8.0129E-06	8.0125E-06	8.1145E-06	8.1479E-06	8.1484E-06	7.9569E-06	7.7422E-06	7.6405E-06	7.5052E-06	7.3648E-06	7.4374E-06	7.3697E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7282E-06	8.7208E-06	8.7845E-06	8.7240E-06	8.8255E-06	8.7917E-06	8.8040E-06	8.8594E-06	8.8255E-06	8.8594E-06	8.8931E-06	8.7917E-06	8.8482E-06	8.7845E-06	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	R1a_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6511E-06	8.6585E-06	8.5876E-06	8.5876E-06	8.5033E-06	8.4533E-06	8.4533E-06	8.3336E-06	8.3037E-06	8.3630E-06	8.2506E-06	8.1663E-06	8.0819E-06	8.0819E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9543E-06	8.9198E-06	8.8845E-06	8.9136E-06	8.9353E-06	8.9353E-06	8.9570E-06	8.9136E-06	8.9353E-06	8.8437E-06	9.0065E-06	9.0065E-06	8.9455E-06	8.9251E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3563E-06	9.3433E-06	9.3451E-06	9.3490E-06	9.3803E-06	9.3722E-06	9.3555E-06	9.3555E-06	9.3221E-06	9.3221E-06	9.3113E-06	9.4035E-06	9.3596E-06	9.3596E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.0701E-06	9.0821E-06	9.1405E-06	9.1616E-06	9.1552E-06	9.1718E-06	9.0437E-06	9.0080E-06	9.0216E-06	8.9380E-06	8.8881E-06	8.8546E-06	8.8379E-06	8.9046E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6374E-06	8.7043E-06	8.6689E-06	8.6148E-06	8.5994E-06	8.6400E-06	8.5442E-06	8.5659E-06	8.4354E-06	8.3050E-06	8.2181E-06	8.3478E-06	8.2717E-06	8.3654E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8246E-06	8.8436E-06	8.8030E-06	8.7215E-06	8.7012E-06	8.6911E-06	8.6911E-06	8.6529E-06	8.5766E-06	8.4161E-06	8.3551E-06	8.3478E-06	8.3288E-06	8.3288E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1747E-06	8.2181E-06	8.3268E-06	8.4138E-06	8.2784E-06	8.2784E-06	8.2784E-06	8.2088E-06	8.1857E-06	8.0465E-06	8.0001E-06	8.0465E-06	7.9305E-06	7.9536E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.2060E-06	8.3543E-06	8.3048E-06	8.1837E-06	8.1575E-06	8.2801E-06	8.2554E-06	8.2554E-06	8.1811E-06	8.1070E-06	8.0822E-06	7.9090E-06	7.8843E-06	7.8843E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9147E-06	7.9746E-06	7.8549E-06	7.8613E-06	7.9452E-06	8.0129E-06	7.9113E-06	7.7759E-06	7.8296E-06	7.9113E-06	7.5390E-06	7.3697E-06	7.3838E-06	7.3521E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5052E-06	7.5052E-06	7.6744E-06	7.9746E-06	7.6066E-06	7.5447E-06	7.6744E-06	7.7658E-06	7.6704E-06	7.4007E-06	7.4036E-06	7.4374E-06	7.3697E-06	7.3358E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6405E-06	7.7605E-06	8.0129E-06	7.9765E-06	8.0129E-06	8.0524E-06	8.0129E-06	7.9250E-06	7.7422E-06	7.6405E-06	7.5052E-06	7.3648E-06	7.4374E-06	7.2208E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6625E-06	8.7208E-06	8.7845E-06	8.7577E-06	8.8255E-06	8.7917E-06	8.8040E-06	8.8594E-06	8.8594E-06	8.8255E-06	8.8931E-06	8.7917E-06	8.7917E-06	8.7845E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6511E-06	8.6585E-06	8.5876E-06	8.5596E-06	8.4754E-06	8.3934E-06	8.3934E-06	8.3037E-06	8.2437E-06	8.3067E-06	8.2225E-06	8.1382E-06	8.0819E-06	8.0819E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9366E-06	8.9008E-06	8.8845E-06	8.9136E-06	8.9353E-06	8.9353E-06	8.9570E-06	8.9136E-06	8.9136E-06	8.8437E-06	9.0065E-06	8.9570E-06	8.9659E-06	8.9251E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3436E-06	9.3158E-06	9.3179E-06	9.3335E-06	9.3647E-06	9.3722E-06	9.3555E-06	9.3388E-06	9.3221E-06	9.3221E-06	9.3113E-06	9.4035E-06	9.3596E-06	9.3744E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.0701E-06	9.0675E-06	9.1405E-06	9.1616E-06	9.1552E-06	9.1885E-06	9.0794E-06	9.0080E-06	9.0216E-06	8.9380E-06	8.8881E-06	8.8546E-06	8.8379E-06	8.9584E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6374E-06	8.7043E-06	8.6510E-06	8.5382E-06	8.5994E-06	8.6400E-06	8.5442E-06	8.6400E-06	8.5382E-06	8.3050E-06	8.2181E-06	8.4370E-06	8.3654E-06	8.3654E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8246E-06	8.8436E-06	8.8030E-06	8.7215E-06	8.7012E-06	8.6911E-06	8.7101E-06	8.6529E-06	8.5956E-06	8.4569E-06	8.4433E-06	8.3478E-06	8.3288E-06	8.3288E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1964E-06	8.2614E-06	8.3702E-06	8.4354E-06	8.4138E-06	8.3248E-06	8.3017E-06	8.2552E-06	8.2321E-06	8.0696E-06	8.0232E-06	8.0696E-06	7.9769E-06	7.9769E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.2307E-06	8.3790E-06	8.3048E-06	8.2801E-06	8.1837E-06	8.2801E-06	8.2554E-06	8.2801E-06	8.1811E-06	8.1070E-06	8.0822E-06	7.9090E-06	7.8596E-06	7.8843E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9147E-06	7.9746E-06	7.8848E-06	7.9250E-06	8.0129E-06	7.9765E-06	7.9791E-06	7.6886E-06	7.9250E-06	7.9113E-06	7.5727E-06	7.4036E-06	7.3838E-06	7.3521E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5052E-06	7.5727E-06	7.7422E-06	8.0942E-06	7.7422E-06	7.6527E-06	7.7422E-06	7.7976E-06	7.6704E-06	7.4007E-06	7.4374E-06	7.4374E-06	7.3697E-06	7.3358E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6405E-06	7.7965E-06	8.0129E-06	8.0125E-06	8.1145E-06	8.1479E-06	8.1484E-06	7.9569E-06	7.7422E-06	7.6405E-06	7.5052E-06	7.3648E-06	7.4374E-06	7.3697E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7282E-06	8.7208E-06	8.7845E-06	8.7240E-06	8.8255E-06	8.7917E-06	8.8040E-06	8.8594E-06	8.8255E-06	8.8594E-06	8.8931E-06	8.7917E-06	8.8482E-06	8.7845E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6511E-06	8.6585E-06	8.5876E-06	8.5876E-06	8.5033E-06	8.4533E-06	8.4533E-06	8.3336E-06	8.3037E-06	8.3630E-06	8.2506E-06	8.1663E-06	8.0819E-06	8.0819E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9543E-06	8.9198E-06	8.8845E-06	8.9136E-06	8.9353E-06	8.9353E-06	8.9570E-06	8.9136E-06	8.9353E-06	8.8437E-06	9.0065E-06	9.0065E-06	8.9455E-06	8.9251E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3563E-06	9.3433E-06	9.3451E-06	9.3490E-06	9.3803E-06	9.3722E-06	9.3555E-06	9.3555E-06	9.3221E-06	9.3221E-06	9.3113E-06	9.4035E-06	9.3596E-06	9.3596E-06	0.0000E+00	0.0000E+00
NO	R2a_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3074E-05	3.0678E-05	3.5063E-05	2.8097E-05	2.3190E-05	2.6686E-05	2.9296E-05	2.6591E-05	2.3259E-05	1.4985E-05	3.7253E-06	9.0883E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2448E-05	2.9445E-05	3.3178E-05	2.6179E-05	2.1777E-05	2.5088E-05	2.7564E-05	2.5502E-05	2.2009E-05	1.3920E-05	3.4436E-06	8.6582E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2718E-05	2.9917E-05	3.3762E-05	2.6742E-05	2.2036E-05	2.5236E-05	2.8101E-05	2.5540E-05	2.2158E-05	1.4176E-05	3.5383E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1810E-05	2.7942E-05	3.2097E-05	2.5862E-05	2.1306E-05	2.4169E-05	2.6779E-05	2.4362E-05	2.1217E-05	1.3525E-05	3.3617E-06	8.2798E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1860E-05	2.8340E-05	3.1845E-05	2.5384E-05	2.0721E-05	2.4039E-05	2.6629E-05	2.4436E-05	2.1085E-05	1.3587E-05	3.3864E-06	8.1146E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1403E-05	2.6967E-05	3.0229E-05	2.4292E-05	2.0287E-05	2.3154E-05	2.5734E-05	2.2685E-05	2.0423E-05	1.3258E-05	3.1723E-06	7.5942E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0811E-05	2.5605E-05	2.9680E-05	2.4812E-05	1.9600E-05	2.2212E-05	2.4968E-05	2.3008E-05	1.9765E-05	1.2400E-05	3.1154E-06	7.6291E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1007E-05	2.6364E-05	3.0722E-05	2.4561E-05	2.0545E-05	2.3653E-05	2.6282E-05	2.3479E-05	1.9950E-05	1.2803E-05	3.1439E-06	7.5543E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2578E-05	2.9498E-05	3.3689E-05	2.6748E-05	2.2350E-05	2.5527E-05	2.8403E-05	2.6149E-05	2.2750E-05	1.4851E-05	3.7270E-06	9.0224E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2467E-05	2.9287E-05	3.2931E-05	2.6329E-05	2.1532E-05	2.4542E-05	2.7268E-05	2.4593E-05	2.1402E-05	1.4017E-05	3.4571E-06	8.3790E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2906E-05	3.0175E-05	3.4075E-05	2.7332E-05	2.2630E-05	2.5947E-05	2.8899E-05	2.6311E-05	2.3035E-05	1.4826E-05	3.7749E-06	9.2442E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3488E-05	3.1614E-05	3.5849E-05	2.8673E-05	2.3762E-05	2.7220E-05	3.0190E-05	2.7620E-05	2.4036E-05	1.5631E-05	3.9031E-06	9.6534E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3074E-05	3.0728E-05	3.5063E-05	2.8097E-05	2.3190E-05	2.6637E-05	2.9180E-05	2.6591E-05	2.3259E-05	1.4985E-05	3.7253E-06	9.0883E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2448E-05	2.9445E-05	3.3247E-05	2.6415E-05	2.1777E-05	2.5088E-05	2.7564E-05	2.5282E-05	2.1743E-05	1.3920E-05	3.4436E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2718E-05	2.9917E-05	3.3762E-05	2.6742E-05	2.2036E-05	2.5236E-05	2.8039E-05	2.5540E-05	2.2109E-05	1.4107E-05	3.5012E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1779E-05	2.7795E-05	3.1930E-05	2.5796E-05	2.0962E-05	2.4034E-05	2.6703E-05	2.4225E-05	2.1097E-05	1.3486E-05	3.3519E-06	8.2560E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1824E-05	2.8256E-05	3.1845E-05	2.5088E-05	2.0654E-05	2.4039E-05	2.6629E-05	2.4362E-05	2.1085E-05	1.3587E-05	3.3864E-06	8.1146E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1403E-05	2.6967E-05	3.0114E-05	2.4096E-05	2.0115E-05	2.3261E-05	2.5515E-05	2.2944E-05	2.0176E-05	1.3258E-05	3.1581E-06	7.5594E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0811E-05	2.5376E-05	2.9421E-05	2.4444E-05	1.9256E-05	2.1897E-05	2.4749E-05	2.2913E-05	1.9765E-05	1.2400E-05	3.1012E-06	7.6291E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1007E-05	2.6242E-05	3.0722E-05	2.4450E-05	2.0287E-05	2.3376E-05	2.5844E-05	2.3384E-05	1.9950E-05	1.2803E-05	3.1439E-06	7.5543E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2483E-05	2.9498E-05	3.3689E-05	2.6852E-05	2.2350E-05	2.5527E-05	2.8403E-05	2.6149E-05	2.2837E-05	1.4794E-05	3.7270E-06	9.0224E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2467E-05	2.9287E-05	3.2931E-05	2.6243E-05	2.1461E-05	2.4368E-05	2.7074E-05	2.4505E-05	2.1247E-05	1.3923E-05	3.4453E-06	8.3500E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2880E-05	3.0111E-05	3.4075E-05	2.7332E-05	2.2630E-05	2.5947E-05	2.8899E-05	2.6311E-05	2.2979E-05	1.4826E-05	3.7749E-06	9.1932E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3470E-05	3.1520E-05	3.5743E-05	2.8625E-05	2.3722E-05	2.7220E-05	3.0190E-05	2.7571E-05	2.4036E-05	1.5631E-05	3.9031E-06	9.6534E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3074E-05	3.0728E-05	3.5063E-05	2.8097E-05	2.3190E-05	2.6637E-05	2.9180E-05	2.6591E-05	2.3259E-05	1.4985E-05	3.7253E-06	9.0883E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2448E-05	2.9445E-05	3.3247E-05	2.6415E-05	2.1777E-05	2.5088E-05	2.7564E-05	2.5282E-05	2.1743E-05	1.3920E-05	3.4436E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2718E-05	2.9917E-05	3.3762E-05	2.6742E-05	2.2036E-05	2.5236E-05	2.8039E-05	2.5540E-05	2.2109E-05	1.4107E-05	3.5012E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1779E-05	2.7795E-05	3.1930E-05	2.5796E-05	2.0962E-05	2.4034E-05	2.6703E-05	2.4225E-05	2.1097E-05	1.3486E-05	3.3519E-06	8.2560E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1824E-05	2.8256E-05	3.1845E-05	2.5088E-05	2.0654E-05	2.4039E-05	2.6629E-05	2.4362E-05	2.1085E-05	1.3587E-05	3.3864E-06	8.1146E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1403E-05	2.6967E-05	3.0114E-05	2.4096E-05	2.0115E-05	2.3261E-05	2.5515E-05	2.2944E-05	2.0176E-05	1.3258E-05	3.1581E-06	7.5594E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0811E-05	2.5376E-05	2.9421E-05	2.4444E-05	1.9256E-05	2.1897E-05	2.4749E-05	2.2913E-05	1.9765E-05	1.2400E-05	3.1012E-06	7.6291E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1007E-05	2.6242E-05	3.0722E-05	2.4450E-05	2.0287E-05	2.3376E-05	2.5844E-05	2.3384E-05	1.9950E-05	1.2803E-05	3.1439E-06	7.5543E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2483E-05	2.9498E-05	3.3689E-05	2.6852E-05	2.2350E-05	2.5527E-05	2.8403E-05	2.6149E-05	2.2837E-05	1.4794E-05	3.7270E-06	9.0224E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2467E-05	2.9287E-05	3.2931E-05	2.6243E-05	2.1461E-05	2.4368E-05	2.7074E-05	2.4505E-05	2.1247E-05	1.3923E-05	3.4453E-06	8.3500E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2880E-05	3.0111E-05	3.4075E-05	2.7332E-05	2.2630E-05	2.5947E-05	2.8899E-05	2.6311E-05	2.2979E-05	1.4826E-05	3.7749E-06	9.1932E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3470E-05	3.1520E-05	3.5743E-05	2.8625E-05	2.3722E-05	2.7220E-05	3.0190E-05	2.7571E-05	2.4036E-05	1.5631E-05	3.9031E-06	9.6534E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3074E-05	3.0728E-05	3.5063E-05	2.8097E-05	2.3190E-05	2.6637E-05	2.9180E-05	2.6591E-05	2.3259E-05	1.4985E-05	3.7253E-06	9.0883E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2448E-05	2.9445E-05	3.3247E-05	2.6415E-05	2.1777E-05	2.5088E-05	2.7564E-05	2.5282E-05	2.1743E-05	1.3920E-05	3.4436E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2718E-05	2.9917E-05	3.3762E-05	2.6742E-05	2.2036E-05	2.5236E-05	2.8039E-05	2.5540E-05	2.2109E-05	1.4107E-05	3.5012E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1779E-05	2.7795E-05	3.1930E-05	2.5796E-05	2.0962E-05	2.4034E-05	2.6703E-05	2.4225E-05	2.1097E-05	1.3486E-05	3.3519E-06	8.2560E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1824E-05	2.8256E-05	3.1845E-05	2.5088E-05	2.0654E-05	2.4039E-05	2.6629E-05	2.4362E-05	2.1085E-05	1.3587E-05	3.3864E-06	8.1146E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1403E-05	2.6967E-05	3.0114E-05	2.4096E-05	2.0115E-05	2.3261E-05	2.5515E-05	2.2944E-05	2.0176E-05	1.3258E-05	3.1581E-06	7.5594E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0811E-05	2.5376E-05	2.9421E-05	2.4444E-05	1.9256E-05	2.1897E-05	2.4749E-05	2.2913E-05	1.9765E-05	1.2400E-05	3.1012E-06	7.6291E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1007E-05	2.6242E-05	3.0722E-05	2.4450E-05	2.0287E-05	2.3376E-05	2.5844E-05	2.3384E-05	1.9950E-05	1.2803E-05	3.1439E-06	7.5543E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2483E-05	2.9498E-05	3.3689E-05	2.6852E-05	2.2350E-05	2.5527E-05	2.8403E-05	2.6149E-05	2.2837E-05	1.4794E-05	3.7270E-06	9.0224E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2467E-05	2.9287E-05	3.2931E-05	2.6243E-05	2.1461E-05	2.4368E-05	2.7074E-05	2.4505E-05	2.1247E-05	1.3923E-05	3.4453E-06	8.3500E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2880E-05	3.0111E-05	3.4075E-05	2.7332E-05	2.2630E-05	2.5947E-05	2.8899E-05	2.6311E-05	2.2979E-05	1.4826E-05	3.7749E-06	9.1932E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3470E-05	3.1520E-05	3.5743E-05	2.8625E-05	2.3722E-05	2.7220E-05	3.0190E-05	2.7571E-05	2.4036E-05	1.5631E-05	3.9031E-06	9.6534E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3074E-05	3.0728E-05	3.5063E-05	2.8097E-05	2.3190E-05	2.6637E-05	2.9180E-05	2.6591E-05	2.3259E-05	1.4985E-05	3.7253E-06	9.0883E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2448E-05	2.9445E-05	3.3247E-05	2.6415E-05	2.1777E-05	2.5088E-05	2.7564E-05	2.5282E-05	2.1743E-05	1.3920E-05	3.4436E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2718E-05	2.9917E-05	3.3762E-05	2.6742E-05	2.2036E-05	2.5236E-05	2.8039E-05	2.5540E-05	2.2109E-05	1.4107E-05	3.5012E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1779E-05	2.7795E-05	3.1930E-05	2.5796E-05	2.0962E-05	2.4034E-05	2.6703E-05	2.4225E-05	2.1097E-05	1.3486E-05	3.3519E-06	8.2560E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	R2e_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1824E-05	2.8256E-05	3.1845E-05	2.5088E-05	2.0654E-05	2.4039E-05	2.6629E-05	2.4362E-05	2.1085E-05	1.3587E-05	3.3864E-06	8.1146E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1403E-05	2.6967E-05	3.0114E-05	2.4096E-05	2.0115E-05	2.3261E-05	2.5515E-05	2.2944E-05	2.0176E-05	1.3258E-05	3.1581E-06	7.5594E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0811E-05	2.5376E-05	2.9421E-05	2.4444E-05	1.9256E-05	2.1897E-05	2.4749E-05	2.2913E-05	1.9765E-05	1.2400E-05	3.1012E-06	7.6291E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1007E-05	2.6242E-05	3.0722E-05	2.4450E-05	2.0287E-05	2.3376E-05	2.5844E-05	2.3384E-05	1.9950E-05	1.2803E-05	3.1439E-06	7.5543E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2483E-05	2.9498E-05	3.3689E-05	2.6852E-05	2.2350E-05	2.5527E-05	2.8403E-05	2.6149E-05	2.2837E-05	1.4794E-05	3.7270E-06	9.0224E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2467E-05	2.9287E-05	3.2931E-05	2.6243E-05	2.1461E-05	2.4368E-05	2.7074E-05	2.4505E-05	2.1247E-05	1.3923E-05	3.4453E-06	8.3500E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2880E-05	3.0111E-05	3.4075E-05	2.7332E-05	2.2630E-05	2.5947E-05	2.8899E-05	2.6311E-05	2.2979E-05	1.4826E-05	3.7749E-06	9.1932E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3470E-05	3.1520E-05	3.5743E-05	2.8625E-05	2.3722E-05	2.7220E-05	3.0190E-05	2.7571E-05	2.4036E-05	1.5631E-05	3.9031E-06	9.6534E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2975E-05	3.0430E-05	3.4669E-05	2.7761E-05	2.2850E-05	2.6102E-05	2.8661E-05	2.6274E-05	2.2957E-05	1.4873E-05	3.7042E-06	9.0367E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2304E-05	2.9049E-05	3.2766E-05	2.5946E-05	2.1478E-05	2.4515E-05	2.7348E-05	2.5141E-05	2.1641E-05	1.3774E-05	3.4162E-06	8.5273E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2525E-05	2.9399E-05	3.3057E-05	2.6179E-05	2.1571E-05	2.4626E-05	2.7669E-05	2.5089E-05	2.1764E-05	1.3971E-05	3.4755E-06	8.4271E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1559E-05	2.7057E-05	3.1011E-05	2.4927E-05	2.0478E-05	2.3479E-05	2.6368E-05	2.3996E-05	2.0618E-05	1.3252E-05	3.3227E-06	8.1605E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1609E-05	2.7585E-05	3.1084E-05	2.4700E-05	2.0338E-05	2.3247E-05	2.6069E-05	2.3923E-05	2.0638E-05	1.3379E-05	3.3656E-06	8.0383E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1144E-05	2.5750E-05	2.9079E-05	2.3249E-05	1.9175E-05	2.1782E-05	2.4420E-05	2.2142E-05	1.9075E-05	1.2974E-05	3.1296E-06	7.4898E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0615E-05	2.4045E-05	2.7538E-05	2.2825E-05	1.8396E-05	2.0850E-05	2.3873E-05	2.2254E-05	1.9353E-05	1.2098E-05	3.0443E-06	7.5245E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0664E-05	2.5388E-05	2.9421E-05	2.3626E-05	1.9579E-05	2.2263E-05	2.4311E-05	2.2725E-05	1.9425E-05	1.2519E-05	3.0870E-06	7.4433E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2335E-05	2.9098E-05	3.2831E-05	2.6249E-05	2.1923E-05	2.4837E-05	2.7815E-05	2.5548E-05	2.2312E-05	1.4510E-05	3.6701E-06	8.8830E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2288E-05	2.8750E-05	3.2494E-05	2.5898E-05	2.0891E-05	2.4034E-05	2.6794E-05	2.4348E-05	2.1046E-05	1.3465E-05	3.3411E-06	8.1511E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2726E-05	2.9658E-05	3.3918E-05	2.7055E-05	2.2398E-05	2.5621E-05	2.8407E-05	2.5925E-05	2.2698E-05	1.4541E-05	3.7176E-06	9.1261E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3359E-05	3.1336E-05	3.5512E-05	2.8337E-05	2.3484E-05	2.6880E-05	2.9866E-05	2.7374E-05	2.3777E-05	1.5491E-05	3.8731E-06	9.5783E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3074E-05	3.0728E-05	3.5063E-05	2.8097E-05	2.3190E-05	2.6637E-05	2.9180E-05	2.6591E-05	2.3259E-05	1.4985E-05	3.7253E-06	9.0883E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2448E-05	2.9445E-05	3.3247E-05	2.6415E-05	2.1777E-05	2.5088E-05	2.7564E-05	2.5282E-05	2.1743E-05	1.3920E-05	3.4436E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2718E-05	2.9917E-05	3.3762E-05	2.6742E-05	2.2036E-05	2.5236E-05	2.8039E-05	2.5540E-05	2.2109E-05	1.4107E-05	3.5012E-06	8.5665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1779E-05	2.7795E-05	3.1930E-05	2.5796E-05	2.0962E-05	2.4034E-05	2.6703E-05	2.4225E-05	2.1097E-05	1.3486E-05	3.3519E-06	8.2560E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1824E-05	2.8256E-05	3.1845E-05	2.5088E-05	2.0654E-05	2.4039E-05	2.6629E-05	2.4362E-05	2.1085E-05	1.3587E-05	3.3864E-06	8.1146E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1403E-05	2.6967E-05	3.0114E-05	2.4096E-05	2.0115E-05	2.3261E-05	2.5515E-05	2.2944E-05	2.0176E-05	1.3258E-05	3.1581E-06	7.5594E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0811E-05	2.5376E-05	2.9421E-05	2.4444E-05	1.9256E-05	2.1897E-05	2.4749E-05	2.2913E-05	1.9765E-05	1.2400E-05	3.1012E-06	7.6291E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1007E-05	2.6242E-05	3.0722E-05	2.4450E-05	2.0287E-05	2.3376E-05	2.5844E-05	2.3384E-05	1.9950E-05	1.2803E-05	3.1439E-06	7.5543E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2483E-05	2.9498E-05	3.3689E-05	2.6852E-05	2.2350E-05	2.5527E-05	2.8403E-05	2.6149E-05	2.2837E-05	1.4794E-05	3.7270E-06	9.0224E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2467E-05	2.9287E-05	3.2931E-05	2.6243E-05	2.1461E-05	2.4368E-05	2.7074E-05	2.4505E-05	2.1247E-05	1.3923E-05	3.4453E-06	8.3500E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2880E-05	3.0111E-05	3.4075E-05	2.7332E-05	2.2630E-05	2.5947E-05	2.8899E-05	2.6311E-05	2.2979E-05	1.4826E-05	3.7749E-06	9.1932E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3470E-05	3.1520E-05	3.5743E-05	2.8625E-05	2.3722E-05	2.7220E-05	3.0190E-05	2.7571E-05	2.4036E-05	1.5631E-05	3.9031E-06	9.6534E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2975E-05	3.0430E-05	3.4669E-05	2.7761E-05	2.2850E-05	2.6102E-05	2.8661E-05	2.6274E-05	2.2957E-05	1.4873E-05	3.7042E-06	9.0367E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2304E-05	2.9049E-05	3.2766E-05	2.5946E-05	2.1478E-05	2.4515E-05	2.7348E-05	2.5141E-05	2.1641E-05	1.3774E-05	3.4162E-06	8.5273E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2525E-05	2.9399E-05	3.3057E-05	2.6179E-05	2.1571E-05	2.4626E-05	2.7669E-05	2.5089E-05	2.1764E-05	1.3971E-05	3.4755E-06	8.4271E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1559E-05	2.7057E-05	3.1011E-05	2.4927E-05	2.0478E-05	2.3479E-05	2.6368E-05	2.3996E-05	2.0618E-05	1.3252E-05	3.3227E-06	8.1605E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1609E-05	2.7585E-05	3.1084E-05	2.4700E-05	2.0338E-05	2.3247E-05	2.6069E-05	2.3923E-05	2.0638E-05	1.3379E-05	3.3656E-06	8.0383E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1144E-05	2.5750E-05	2.9079E-05	2.3249E-05	1.9175E-05	2.1782E-05	2.4420E-05	2.2142E-05	1.9075E-05	1.2974E-05	3.1296E-06	7.4898E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0615E-05	2.4045E-05	2.7538E-05	2.2825E-05	1.8396E-05	2.0850E-05	2.3873E-05	2.2254E-05	1.9353E-05	1.2098E-05	3.0443E-06	7.5245E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0664E-05	2.5388E-05	2.9421E-05	2.3626E-05	1.9579E-05	2.2263E-05	2.4311E-05	2.2725E-05	1.9425E-05	1.2519E-05	3.0870E-06	7.4433E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2335E-05	2.9098E-05	3.2831E-05	2.6249E-05	2.1923E-05	2.4837E-05	2.7815E-05	2.5548E-05	2.2312E-05	1.4510E-05	3.6701E-06	8.8830E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2288E-05	2.8750E-05	3.2494E-05	2.5898E-05	2.0891E-05	2.4034E-05	2.6794E-05	2.4348E-05	2.1046E-05	1.3465E-05	3.3411E-06	8.1511E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2726E-05	2.9658E-05	3.3918E-05	2.7055E-05	2.2398E-05	2.5621E-05	2.8407E-05	2.5925E-05	2.2698E-05	1.4541E-05	3.7176E-06	9.1261E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3359E-05	3.1336E-05	3.5512E-05	2.8337E-05	2.3484E-05	2.6880E-05	2.9866E-05	2.7374E-05	2.3777E-05	1.5491E-05	3.8731E-06	9.5783E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2975E-05	3.0430E-05	3.4669E-05	2.7761E-05	2.2850E-05	2.6102E-05	2.8661E-05	2.6274E-05	2.2957E-05	1.4873E-05	3.7042E-06	9.0367E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2304E-05	2.9049E-05	3.2766E-05	2.5946E-05	2.1478E-05	2.4515E-05	2.7348E-05	2.5141E-05	2.1641E-05	1.3774E-05	3.4162E-06	8.5273E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2525E-05	2.9399E-05	3.3057E-05	2.6179E-05	2.1571E-05	2.4626E-05	2.7669E-05	2.5089E-05	2.1764E-05	1.3971E-05	3.4755E-06	8.4271E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1559E-05	2.7057E-05	3.1011E-05	2.4927E-05	2.0478E-05	2.3479E-05	2.6368E-05	2.3996E-05	2.0618E-05	1.3252E-05	3.3227E-06	8.1605E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1609E-05	2.7585E-05	3.1084E-05	2.4700E-05	2.0338E-05	2.3247E-05	2.6069E-05	2.3923E-05	2.0638E-05	1.3379E-05	3.3656E-06	8.0383E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1144E-05	2.5750E-05	2.9079E-05	2.3249E-05	1.9175E-05	2.1782E-05	2.4420E-05	2.2142E-05	1.9075E-05	1.2974E-05	3.1296E-06	7.4898E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0615E-05	2.4045E-05	2.7538E-05	2.2825E-05	1.8396E-05	2.0850E-05	2.3873E-05	2.2254E-05	1.9353E-05	1.2098E-05	3.0443E-06	7.5245E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0664E-05	2.5388E-05	2.9421E-05	2.3626E-05	1.9579E-05	2.2263E-05	2.4311E-05	2.2725E-05	1.9425E-05	1.2519E-05	3.0870E-06	7.4433E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2335E-05	2.9098E-05	3.2831E-05	2.6249E-05	2.1923E-05	2.4837E-05	2.7815E-05	2.5548E-05	2.2312E-05	1.4510E-05	3.6701E-06	8.8830E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2288E-05	2.8750E-05	3.2494E-05	2.5898E-05	2.0891E-05	2.4034E-05	2.6794E-05	2.4348E-05	2.1046E-05	1.3465E-05	3.3411E-06	8.1511E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2726E-05	2.9658E-05	3.3918E-05	2.7055E-05	2.2398E-05	2.5621E-05	2.8407E-05	2.5925E-05	2.2698E-05	1.4541E-05	3.7176E-06	9.1261E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3359E-05	3.1336E-05	3.5512E-05	2.8337E-05	2.3484E-05	2.6880E-05	2.9866E-05	2.7374E-05	2.3777E-05	1.5491E-05	3.8731E-06	9.5783E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	TKO15	1	1.8324E-06	6.4634E-07	2.6632E-08	1.6293E-08	2.0106E-08	6.4605E-07	2.4119E-06	3.3714E-06	3.9019E-06	4.1797E-06	4.3931E-06	5.2717E-06	4.3583E-06	3.9981E-06	5.0325E-06	3.7161E-06	4.9723E-06	5.4469E-06	4.9417E-06	3.6202E-06	2.7378E-06	2.7963E-06	1.7995E-06	1.1334E-06
NO	TKO15	2	1.7983E-06	6.3597E-07	2.4081E-08	1.4249E-08	1.7631E-08	6.3562E-07	2.3688E-06	3.2977E-06	3.8159E-06	4.1039E-06	4.2849E-06	5.0992E-06	4.2512E-06	3.8996E-06	4.8995E-06	3.6574E-06	4.8562E-06	5.2837E-06	4.7945E-06	3.5640E-06	2.6904E-06	2.7364E-06	1.7590E-06	1.1064E-06
NO	TKO15	3	1.7833E-06	6.2996E-07	2.2950E-08	1.3565E-08	1.6816E-08	6.3136E-07	2.3710E-06	3.3174E-06	3.8473E-06	4.1270E-06	4.3123E-06	5.1475E-06	4.2704E-06	3.9092E-06	4.9421E-06	3.6601E-06	4.8708E-06	5.3228E-06	4.8446E-06	3.5511E-06	2.6861E-06	2.7322E-06	1.7574E-06	1.1035E-06
NO	TKO15	4	1.7519E-06	6.2025E-07	2.1270E-08	1.2048E-08	1.4639E-08	6.2089E-07	2.3248E-06	3.2200E-06	3.7283E-06	4.0098E-06	4.2212E-06	5.0703E-06	4.2155E-06	3.8433E-06	4.8406E-06	3.5963E-06	4.7835E-06	5.2243E-06	4.7524E-06	3.5120E-06	2.6500E-06	2.6962E-06	1.7309E-06	1.0826E-06
NO	TKO15	5	1.7565E-06	6.2166E-07	2.1216E-08	1.2332E-08	1.4832E-08	6.2186E-07	2.3306E-06	3.2545E-06	3.7334E-06	4.0314E-06	4.2060E-06	5.0276E-06	4.1712E-06	3.8353E-06	4.8290E-06	3.5998E-06	4.7712E-06	5.2330E-06	4.7642E-06	3.4903E-06	2.6381E-06	2.6867E-06	1.7308E-06	1.0864E-06
NO	TKO15	6	1.7199E-06	6.0583E-07	1.8754E-08	1.0596E-08	1.3014E-08	6.1002E-07	2.3034E-06	3.1907E-06	3.6749E-06	3.9525E-06	4.1190E-06	4.9331E-06	4.1389E-06	3.7818E-06	4.7622E-06	3.5073E-06	4.7112E-06	5.1829E-06	4.6548E-06	3.4234E-06	2.5905E-06	2.6334E-06	1.6932E-06	1.0584E-06
NO	TKO15	7	1.7140E-06	6.0539E-07	1.9123E-08	1.0721E-08	1.3046E-08	6.0425E-07	2.2450E-06	3.1213E-06	3.5998E-06	3.8750E-06	4.0901E-06	4.9774E-06	4.0879E-06	3.7251E-06	4.7054E-06	3.5242E-06	4.6523E-06	5.0557E-06	4.6260E-06	3.4278E-06	2.5892E-06	2.6318E-06	1.7028E-06	1.0622E-06
NO	TKO15	8	1.7150E-06	6.0471E-07	1.9499E-08	1.0603E-08	1.3116E-08	6.0596E-07	2.2627E-06	3.1532E-06	3.6248E-06	3.9191E-06	4.1456E-06	4.9565E-06	4.1580E-06	3.8117E-06	4.8028E-06	3.5489E-06	4.6689E-06	5.1154E-06	4.6404E-06	3.4185E-06	2.5958E-06	2.6352E-06	1.7220E-06	1.0647E-06
NO	TKO15	9	1.7964E-06	6.3307E-07	2.2421E-08	1.2859E-08	1.5955E-08	6.3194E-07	2.3640E-06	3.2895E-06	3.8246E-06	4.0977E-06	4.3038E-06	5.1436E-06	4.2918E-06	3.9246E-06	4.9606E-06	3.6891E-06	4.9199E-06	5.4196E-06	4.9348E-06	3.6051E-06	2.7352E-06	2.7752E-06	1.7819E-06	1.1167E-06
NO	TKO15	10	1.7979E-06	6.3023E-07	2.1897E-08	1.2706E-08	1.5627E-08	6.2810E-07	2.3669E-06	3.2953E-06	3.8108E-06	4.0853E-06	4.2631E-06	5.1075E-06	4.2312E-06	3.8652E-06	4.8757E-06	3.6074E-06	4.7988E-06	5.2960E-06	4.7986E-06	3.5230E-06	2.6596E-06	2.7059E-06	1.7808E-06	1.1152E-06
NO	TKO15	11	1.8142E-06	6.4012E-07	2.4352E-08	1.4743E-08	1.8137E-08	6.4112E-07	2.3989E-06	3.3501E-06	3.8730E-06	4.1419E-06	4.3290E-06	5.1965E-06	4.3138E-06	3.9508E-06	4.9988E-06	3.6992E-06	4.9472E-06	5.4194E-06	4.9631E-06	3.6366E-06	2.7467E-06	2.7909E-06	1.7945E-06	1.1267E-06
NO	TKO15	12	1.8416E-06	6.5019E-07	2.7094E-08	1.6945E-08	2.0930E-08	6.5058E-07	2.4341E-06	3.4098E-06	3.9572E-06	4.2365E-06	4.4355E-06	5.3214E-06	4.4017E-06	4.0303E-06	5.1007E-06	3.7710E-06	5.0422E-06	5.5430E-06	5.0303E-06	3.6952E-06	2.7909E-06	2.8367E-06	1.8196E-06	1.1431E-06
NO	TKO16	1	2.1346E-06	6.8864E-07	9.6829E-08	8.4434E-07	3.0904E-07	8.1004E-07	1.1851E-06	2.5764E-06	3.0261E-06	4.8199E-06	3.0931E-06	3.1928E-06	2.7618E-06	2.7881E-06	4.5615E-06	3.4244E-06	4.4111E-06	3.1973E-06	4.4689E-06	3.3442E-06	3.8044E-06	1.8658E-06	2.1906E-06	1.0566E-06
NO	TKO16	2	2.0363E-06	6.7501E-07	8.5704E-08	8.2573E-07	2.8811E-07	7.8244E-07	1.1321E-06	2.4541E-06	2.8985E-06	4.6802E-06	2.9320E-06	3.0058E-06	2.6431E-06	2.6731E-06	4.3696E-06	3.3348E-06	4.2434E-06	3.0315E-06	4.2679E-06	3.2549E-06	3.6999E-06	1.8065E-06	2.1281E-06	1.0224E-06
NO	TKO16	3	1.9963E-06	6.6744E-07	8.0757E-08	8.1737E-07	2.8035E-07	7.7258E-07	1.1310E-06	2.4702E-06	2.9208E-06	4.7044E-06	2.9454E-06	3.0475E-06	2.6609E-06	2.6877E-06	4.4367E-06	3.3426E-06	4.2684E-06	3.0703E-06	4.3390E-06	3.2314E-06	3.6872E-06	1.8005E-06	2.1248E-06	1.0160E-06
NO	TKO16	4	1.9118E-06	6.5501E-07	7.3776E-08	8.0032E-07	2.5953E-07	7.4884E-07	1.0821E-06	2.3338E-06	2.7684E-06	4.5021E-06	2.8302E-06	2.9734E-06	2.6046E-06	2.6103E-06	4.2909E-06	3.2456E-06	4.1438E-06	2.9811E-06	4.2159E-06	3.1638E-06	3.6040E-06	1.7641E-06	2.0829E-06	9.8791E-07
NO	TKO16	5	1.9201E-06	6.5667E-07	7.3535E-08	8.0477E-07	2.6192E-07	7.5014E-07	1.0860E-06	2.3761E-06	2.7703E-06	4.5345E-06	2.8065E-06	2.9316E-06	2.5595E-06	2.6012E-06	4.2750E-06	3.2492E-06	4.1265E-06	2.9843E-06	4.2272E-06	3.1302E-06	3.5781E-06	1.7552E-06	2.0825E-06	9.9151E-07
NO	TKO16	6	1.8416E-06	6.3781E-07	6.3301E-08	7.7431E-07	2.4120E-07	7.2766E-07	1.0606E-06	2.2927E-06	2.7025E-06	4.4091E-06	2.7050E-06	2.8525E-06	2.5318E-06	2.5507E-06	4.1921E-06	3.1248E-06	4.0513E-06	2.9416E-06	4.0952E-06	3.0292E-06	3.4781E-06	1.7079E-06	2.0253E-06	9.5696E-07
NO	TKO16	7	1.8287E-06	6.3736E-07	6.5006E-08	7.7611E-07	2.4124E-07	7.1743E-07	1.0105E-06	2.2043E-06	2.6181E-06	4.2879E-06	2.6753E-06	2.8881E-06	2.4860E-06	2.4953E-06	4.1199E-06	3.1459E-06	3.9784E-06	2.8424E-06	4.0611E-06	3.0358E-06	3.4759E-06	1.7069E-06	2.0399E-06	9.6153E-07
NO	TKO16	8	1.8323E-06	6.3654E-07	6.6507E-08	7.7440E-07	2.4225E-07	7.2027E-07	1.0255E-06	2.2450E-06	2.6472E-06	4.3607E-06	2.7378E-06	2.8767E-06	2.5493E-06	2.5772E-06	4.2439E-06	3.1793E-06	4.0002E-06	2.8881E-06	4.0782E-06	3.0231E-06	3.4899E-06	1.7099E-06	2.0688E-06	9.6439E-07
NO	TKO16	9	2.0061E-06	6.7009E-07	7.9262E-08	8.1848E-07	2.7612E-07	7.6824E-07	1.1134E-06	2.4208E-06	2.8742E-06	4.6430E-06	2.9186E-06	3.0322E-06	2.6723E-06	2.6897E-06	4.4498E-06	3.3712E-06	4.3105E-06	3.1305E-06	4.4269E-06	3.2992E-06	3.7793E-06	1.8327E-06	2.1592E-06	1.0264E-06
NO	TKO16	10	2.0086E-06	6.6673E-07	7.6655E-08	8.1364E-07	2.7155E-07	7.6152E-07	1.1190E-06	2.4294E-06	2.8594E-06	4.6206E-06	2.8695E-06	2.9970E-06	2.6137E-06	2.6292E-06	4.3350E-06	3.2582E-06	4.1579E-06	3.0296E-06	4.2639E-06	3.1760E-06	3.6212E-06	1.7711E-06	2.1575E-06	1.0252E-06
NO	TKO16	11	2.0659E-06	6.7964E-07	8.6977E-08	8.3435E-07	2.9378E-07	7.9486E-07	1.1627E-06	2.5242E-06	2.9588E-06	4.7288E-06	2.9651E-06	3.0817E-06	2.6960E-06	2.7194E-06	4.4983E-06	3.3885E-06	4.3508E-06	3.1490E-06	4.4752E-06	3.3555E-06	3.8106E-06	1.8506E-06	2.1810E-06	1.0454E-06

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	TKO16	12	2.1562E-06	6.9368E-07	9.8892E-08	8.5106E-07	3.1643E-07	8.2096E-07	1.2130E-06	2.6348E-06	3.1019E-06	4.9216E-06	3.1442E-06	3.2365E-06	2.8098E-06	2.8208E-06	4.6582E-06	3.5053E-06	4.4994E-06	3.2760E-06	4.5690E-06	3.4679E-06	3.9262E-06	1.9054E-06	2.2233E-06	1.0700E-06
NO	TKO17	1	1.6119E-07	2.2821E-09	0.0000E+00	0.0000E+00	2.0220E-08	1.5886E-08	1.7407E-06	2.3246E-06	2.0788E-06	2.8603E-06	3.2657E-06	2.6141E-06	3.1411E-06	2.5083E-06	3.7454E-06	2.7605E-06	2.9438E-06	3.4501E-06	2.8203E-06	2.6620E-06	1.5993E-06	1.2842E-06	1.0210E-06	6.1016E-07
NO	TKO17	2	1.5674E-07	2.0942E-09	0.0000E+00	0.0000E+00	1.7673E-08	1.3887E-08	1.7104E-06	2.2780E-06	2.0404E-06	2.8056E-06	3.1861E-06	2.5322E-06	3.0640E-06	2.4489E-06	3.6446E-06	2.7113E-06	2.8696E-06	3.3424E-06	2.7456E-06	2.6210E-06	1.5741E-06	1.2601E-06	9.9917E-07	5.9498E-07
NO	TKO17	3	1.5491E-07	2.0153E-09	0.0000E+00	0.0000E+00	1.6826E-08	1.3260E-08	1.7119E-06	2.2914E-06	2.0536E-06	2.8224E-06	3.2059E-06	2.5540E-06	3.0776E-06	2.4549E-06	3.6771E-06	2.7141E-06	2.8796E-06	3.3681E-06	2.7711E-06	2.6116E-06	1.5720E-06	1.2585E-06	9.9832E-07	5.9295E-07
NO	TKO17	4	1.5098E-07	1.8353E-09	0.0000E+00	0.0000E+00	1.4583E-08	1.1771E-08	1.6798E-06	2.2288E-06	2.0011E-06	2.7376E-06	3.1392E-06	2.5184E-06	3.0383E-06	2.4152E-06	3.6002E-06	2.6609E-06	2.8240E-06	3.3050E-06	2.7244E-06	2.5829E-06	1.5530E-06	1.2442E-06	9.8394E-07	5.8112E-07
NO	TKO17	5	1.5138E-07	1.8428E-09	0.0000E+00	0.0000E+00	1.4788E-08	1.1788E-08	1.6839E-06	2.2514E-06	2.0031E-06	2.7532E-06	3.1282E-06	2.4989E-06	3.0067E-06	2.4104E-06	3.5914E-06	2.6636E-06	2.8162E-06	3.3097E-06	2.7303E-06	2.5670E-06	1.5467E-06	1.2404E-06	9.8384E-07	5.8311E-07
NO	TKO17	6	1.4753E-07	1.6850E-09	0.0000E+00	0.0000E+00	1.2901E-08	1.0672E-08	1.6653E-06	2.2107E-06	1.9773E-06	2.6959E-06	3.0647E-06	2.4568E-06	2.9837E-06	2.3793E-06	3.5416E-06	2.5895E-06	2.7797E-06	3.2782E-06	2.6753E-06	2.5179E-06	1.5215E-06	1.2189E-06	9.6337E-07	5.6775E-07
NO	TKO17	7	1.4691E-07	1.6754E-09	0.0000E+00	0.0000E+00	1.2952E-08	1.0210E-08	1.6250E-06	2.1656E-06	1.9445E-06	2.6396E-06	3.0436E-06	2.4766E-06	2.9473E-06	2.3460E-06	3.4990E-06	2.6027E-06	2.7441E-06	3.1996E-06	2.6609E-06	2.5212E-06	1.5208E-06	1.2182E-06	9.6858E-07	5.6984E-07
NO	TKO17	8	1.4705E-07	1.6754E-09	0.0000E+00	0.0000E+00	1.3017E-08	1.0328E-08	1.6372E-06	2.1863E-06	1.9554E-06	2.6715E-06	3.0841E-06	2.4679E-06	2.9973E-06	2.3965E-06	3.5720E-06	2.6227E-06	2.7544E-06	3.2363E-06	2.6681E-06	2.5144E-06	1.5244E-06	1.2196E-06	9.7896E-07	5.7124E-07
NO	TKO17	9	1.5545E-07	1.8525E-09	0.0000E+00	0.0000E+00	1.6020E-08	1.2591E-08	1.7070E-06	2.2748E-06	2.0428E-06	2.8010E-06	3.1997E-06	2.5516E-06	3.0929E-06	2.4630E-06	3.6907E-06	2.7365E-06	2.9058E-06	3.4251E-06	2.8161E-06	2.6506E-06	1.5986E-06	1.2765E-06	1.0113E-06	5.9971E-07
NO	TKO17	10	1.5562E-07	1.8698E-09	0.0000E+00	0.0000E+00	1.5635E-08	1.2316E-08	1.7088E-06	2.2779E-06	2.0369E-06	2.7922E-06	3.1700E-06	2.5349E-06	3.0496E-06	2.4279E-06	3.6266E-06	2.6699E-06	2.8322E-06	3.3478E-06	2.7477E-06	2.5907E-06	1.5583E-06	1.2483E-06	1.0109E-06	5.9886E-07
NO	TKO17	11	1.5820E-07	2.0792E-09	0.0000E+00	0.0000E+00	1.8215E-08	1.4659E-08	1.7314E-06	2.3120E-06	2.0651E-06	2.8333E-06	3.2181E-06	2.5753E-06	3.1086E-06	2.4786E-06	3.7192E-06	2.7446E-06	2.9237E-06	3.4284E-06	2.8305E-06	2.6739E-06	1.6043E-06	1.2824E-06	1.0183E-06	6.0597E-07
NO	TKO17	12	1.6221E-07	2.3535E-09	0.0000E+00	0.0000E+00	2.1081E-08	1.6610E-08	1.7562E-06	2.3491E-06	2.1033E-06	2.9013E-06	3.2967E-06	2.6367E-06	3.1723E-06	2.5273E-06	3.7970E-06	2.8061E-06	2.9863E-06	3.5101E-06	2.8647E-06	2.7168E-06	1.6273E-06	1.3004E-06	1.0318E-06	6.1583E-07
NO	TKO19	1	2.8083E-07	7.4835E-07	1.0008E-07	1.9544E-07	1.2817E-07	2.5364E-06	2.8125E-06	1.1864E-05	2.1298E-05	3.1891E-05	3.4463E-05	3.0308E-05	2.7255E-05	2.9042E-05	3.0970E-05	2.9701E-05	2.6459E-05	2.2069E-05	1.3782E-05	2.5309E-06	2.2106E-06	1.0837E-06	8.7385E-07	5.2947E-08
NO	TKO19	2	2.5682E-07	7.2849E-07	9.5594E-08	1.8662E-07	1.2047E-07	2.4912E-06	2.7404E-06	1.1541E-05	2.0792E-05	3.1276E-05	3.3565E-05	2.9309E-05	2.6458E-05	2.8206E-05	3.0098E-05	2.9124E-05	2.5778E-05	2.1300E-05	1.3267E-05	2.4705E-06	2.1666E-06	1.0572E-06	8.4740E-07	4.9788E-08
NO	TKO19	3	2.4775E-07	7.1796E-07	9.3164E-08	1.8309E-07	1.1765E-07	2.4731E-06	2.7412E-06	1.1636E-05	2.0990E-05	3.1497E-05	3.3828E-05	2.9596E-05	2.6602E-05	2.8286E-05	3.0371E-05	2.9146E-05	2.5861E-05	2.1485E-05	1.3441E-05	2.4564E-06	2.1619E-06	1.0545E-06	8.4542E-07	4.8729E-08
NO	TKO19	4	2.2719E-07	7.0038E-07	9.0193E-08	1.7560E-07	1.1006E-07	2.4286E-06	2.6702E-06	1.1196E-05	2.0274E-05	3.0522E-05	3.3046E-05	2.9143E-05	2.6192E-05	2.7727E-05	2.9704E-05	2.8522E-05	2.5348E-05	2.1018E-05	1.3119E-05	2.4136E-06	2.1273E-06	1.0374E-06	8.2658E-07	4.5784E-08
NO	TKO19	5	2.2792E-07	7.0248E-07	9.0051E-08	1.7737E-07	1.1089E-07	2.4324E-06	2.6776E-06	1.1355E-05	2.0308E-05	3.0712E-05	3.2924E-05	2.8894E-05	2.5862E-05	2.7659E-05	2.9628E-05	2.8560E-05	2.5276E-05	2.1059E-05	1.3161E-05	2.3907E-06	2.1161E-06	1.0329E-06	8.2596E-07	4.5906E-08
NO	TKO19	6	2.1238E-07	6.7795E-07	8.4006E-08	1.6583E-07	1.0343E-07	2.3829E-06	2.6391E-06	1.1065E-05	1.9951E-05	3.0038E-05	3.2168E-05	2.8333E-05	2.5619E-05	2.7201E-05	2.9178E-05	2.7639E-05	2.4916E-05	2.0821E-05	1.2776E-05	2.3190E-06	2.0722E-06	1.0099E-06	8.0181E-07	4.2754E-08
NO	TKO19	7	2.1003E-07	6.7746E-07	8.4954E-08	1.6650E-07	1.0343E-07	2.3589E-06	2.5578E-06	1.0746E-05	1.9492E-05	2.9373E-05	3.1913E-05	2.8598E-05	2.5238E-05	2.6716E-05	2.8797E-05	2.7808E-05	2.4560E-05	2.0218E-05	1.2675E-05	2.3238E-06	2.0708E-06	1.0091E-06	8.0777E-07	4.3141E-08
NO	TKO19	8	2.1069E-07	6.7640E-07	8.5980E-08	1.6584E-07	1.0381E-07	2.3660E-06	2.5823E-06	1.0893E-05	1.9644E-05	2.9744E-05	3.2398E-05	2.8470E-05	2.5762E-05	2.7457E-05	2.9451E-05	2.8055E-05	2.4660E-05	2.0501E-05	1.2725E-05	2.3139E-06	2.0769E-06	1.0105E-06	8.1961E-07	4.3366E-08
NO	TKO19	9	2.4260E-07	7.1985E-07	9.3766E-08	1.8191E-07	1.1586E-07	2.4741E-06	2.7235E-06	1.1518E-05	2.0864E-05	3.1275E-05	3.3781E-05	2.9583E-05	2.6763E-05	2.8423E-05	3.0509E-05	2.9455E-05	2.6173E-05	2.1943E-05	1.3766E-05	2.5112E-06	2.2032E-06	1.0677E-06	8.5654E-07	4.8453E-08
NO	TKO19	10	2.4356E-07	7.1541E-07	9.2098E-08	1.8041E-07	1.1432E-07	2.4583E-06	2.7291E-06	1.1542E-05	2.0780E-05	3.1173E-05	3.3428E-05	2.9370E-05	2.6311E-05	2.7915E-05	2.9943E-05	2.8640E-05	2.5444E-05	2.1357E-05	1.3285E-05	2.4249E-06	2.1351E-06	1.0397E-06	8.5617E-07	4.8509E-08
NO	TKO19	11	2.6087E-07	7.3404E-07	9.6748E-08	1.8983E-07	1.2248E-07	2.5146E-06	2.7859E-06	1.1780E-05	2.1143E-05	3.1624E-05	3.3973E-05	2.9891E-05	2.6927E-05	2.8645E-05	3.0764E-05	2.9546E-05	2.6331E-05	2.1942E-05	1.3861E-05	2.5463E-06	2.2161E-06	1.0777E-06	8.6855E-07	5.1416E-08
NO	TKO19	12	2.8494E-07	7.5573E-07	1.0122E-07	1.9846E-07	1.3086E-07	2.5557E-06	2.8501E-06	1.2035E-05	2.1628E-05	3.2355E-05	3.4830E-05	3.0602E-05	2.7577E-05	2.9319E-05	3.1421E-05	3.0244E-05	2.6879E-05	2.2524E-05	1.4096E-05	2.6118E-06	2.2609E-06	1.1014E-06	8.8882E-07	5.4400E-08
NO	TKO20	1	2.3580E-06	1.4253E-06	9.6658E-08	9.4451E-07	2.8764E-07	1.2551E-06	2.2721E-06	2.8114E-06	5.5818E-06	6.4048E-06	4.3056E-06	4.7046E-06	3.2120E-06	3.2790E-06	5.1379E-06	3.2104E-06	4.5360E-06	4.8286E-06	5.6267E-06	2.5888E-06	2.1341E-06	1.3823E-06	1.3449E-06	6.7269E-07
NO	TKO20	2	2.2769E-06	1.4018E-06	8.4524E-08	9.2303E-07	2.6829E-07	1.2205E-06	2.2063E-06	2.7034E-06	5.4008E-06	6.2276E-06	4.1035E-06	4.4531E-06	3.0731E-06	3.1502E-06	4.9208E-06	3.1259E-06	4.3656E-06	4.5917E-06	5.3676E-06	2.5285E-06	2.0832E-06	1.3405E-06	1.3108E-06	6.4995E-07
NO	TKO20	3	2.2437E-06	1.3882E-06	7.9202E-08	9.1330E-07	2.6118E-07	1.2077E-06	2.2067E-06	2.7185E-06	5.4504E-06	6.2683E-06	4.1342E-06	4.5158E-06	3.0953E-06	3.1648E-06	4.9936E-06	3.1324E-06	4.3902E-06	4.6482E-06	5.4577E-06	2.5123E-06	2.0759E-06	1.3362E-06	1.3086E-06	6.4519E-07
NO	TKO20	4	2.1731E-06	1.3665E-06	7.1658E-08	8.9344E-07	2.4193E-07	1.1769E-06	2.1424E-06	2.5962E-06	5.2166E-06	6.0044E-06	3.9793E-06	4.4103E-06	3.0279E-06	3.0782E-06	4.8285E-06	3.0409E-06	4.2632E-06	4.5122E-06	5.2980E-06	2.4662E-06	2.0339E-06	1.3105E-06	1.2852E-06	6.2639E-07
NO	TKO20	5	2.1804E-06	1.3697E-06	7.1423E-08	8.9868E-07	2.4414E-07	1.1789E-06	2.1489E-06	2.6345E-06	5.2235E-06	6.0496E-06	3.9495E-06	4.3512E-06	2.9734E-06	3.0675E-06	4.8101E-06	3.0446E-06	4.2455E-06	4.5210E-06	5.3155E-06	2.4434E-06	2.0212E-06	1.3043E-06	1.2848E-06	6.2860E-07
NO	TKO20	6	2.1129E-06	1.3343E-06	6.0691E-08	8.6278E-07	2.2504E-07	1.1483E-06	2.1140E-06	2.5585E-06	5.1133E-06	5.8801E-06	3.8075E-06	4.2299E-06	2.9379E-06	3.0041E-06	4.7089E-06	2.9230E-06	4.1657E-06	4.4533E-06	5.1373E-06	2.3752E-06	1.9734E-06	1.2713E-06	1.2540E-06	6.0605E-07
NO	TKO20	7	2.1020E-06	1.3333E-06	6.2543E-08	8.6487E-07	2.2507E-07	1.1342E-06	2.0416E-06	2.4782E-06	4.9736E-06	5.7149E-06	3.7633E-06	4.2857E-06	2.8805E-06	2.9367E-06	4.6220E-06	2.9440E-06	4.0891E-06	4.2893E-06	5.0904E-06	2.3798E-06	1.9724E-06	1.2707E-06	1.2618E-06	6.0906E-07
NO	TKO20	8	2.1048E-06	1.3318E-06	6.4097E-08	8.6288E-07	2.2601E-07	1.1383E-06	2.0634E-06	2.5150E-06	5.0207E-06	5.8117E-06	3.8521E-06	4.2632E-06	2.9594E-06	3.0382E-06	4.7714E-06	2.9765E-06	4.1119E-06	4.3658E-06	5.1139E-06	2.3713E-06	1.9788E-06	1.2727E-06	1.2772E-06	6.1100E-07
NO	TKO20	9	2.2533E-06	1.3959E-06	7.7571E-08	9.1489E-07	2.5715E-07	1.2038E-06	2.1896E-06	2.6743E-06	5.3939E-06	6.1944E-06	4.1066E-06	4.5014E-06	3.1123E-06	3.1737E-06	5.0160E-06	3.1626E-06	4.4386E-06	4.7618E-06	5.5917E-06	2.5558E-06	2.1143E-06	1.3583E-06	1.3255E-06	6.5091E-07
NO	TKO20	10	2.2557E-06	1.3892E-06	7.4719E-08	9.0917E-07	2.5299E-07	1.1945E-06	2.1951E-06	2.6825E-06	5.3689E-06	6.1659E-06	4.0393E-06	4.4519E-06	3.0410E-06	3.1017E-06	4.8821E-06	3.0534E-06	4.2790E-06	4.5990E-06	5.3692E-06	2.4736E-06	2.0405E-06	1.3154E-06	1.3247E-06	6.5015E-07
NO	TKO20	11	2.3026E-06	1.4112E-06	8.5824E-08	9.3317E-07	2.7353E-07	1.2366E-06	2.2472E-06	2.7663E-06	5.5044E-06	6.3009E-06	4.1618E-06	4.5733E-06	3.1406E-06	3.2085E-06	5.0743E-06	3.1788E-06	4.4801E-06	4.7751E-06	5.6470E-06	2.5949E-06	2.1329E-06	1.3710E-06	1.3388E-06	6.6462E-07
NO	TKO20	12	2.3761E-06	1.4340E-06	9.8872E-08	9.5230E-07	2.9449E-07	1.2691E-06	2.3064E-06	2.8634E-06	5.6938E-06	6.5355E-06	4.3760E-06	4.7697E-06	3.2681E-06	3.3180E-06	5.2482E-06	3.2872E-06	4.6285E-06	4.9555E-06	5.7671E-06	2.6725E-06	2.1948E-06	1.4102E-06	1.3635E-06	6.8184E-07
NO	TKO21	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3104E-06	1.6958E-05	2.8983E-05	3.1523E-05	2.7871E-05	2.4772E-05	2.6713E-05	2.8475E-05	2.7130E-05	2.5783E-05	2.0416E-05	1.3780E-05	2.2291E-06	5.5461E-07	2.3735E-07	8.4766E-08	0.0000E+00
NO	TKO21	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.0935E-06	1.6560E-05	2.8426E-05	3.0713E-05	2.6958E-05	2.4050E-05	2.5946E-05	2.7675E-05	2.6604E-05	2.5127E-05	1.9715E-05	1.3272E-05	2.1794E-06	5.4065E-07	2.2990E-07	8.1770E-08	0.0000E+00
NO	TKO21	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1661E-06	1.6722E-05	2.8633E-05	3.0959E-05	2.7224E-05	2.4181E-05	2.6018E-05	2.7924E-05	2.6623E-05	2.5205E-05	1.9884E-05	1.3444E-05	2.1685E-06	5.3952E-07	2.2942E-07	8.1673E-08	0.0000E+00
NO	TKO21	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.8590E-06	1.6153E-05	2.7744E-05	3.0246E-05	2.6807E-05	2.3808E-05	2.5505E-05	2.7312E-05	2.6054E-05	2.4711E-05	1.9458E-05	1.3126E-05	2.1348E-06	5.2906E-07	2.2498E-07	7.9733E-08	0.0000E+00
NO	TKO21	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9733E-06	1.6181E-05	2.7919E-05	3.0137E-05	2.6578E-05	2.3509E-05	2.5442E-05	2.7243E-05	2.6089E-05	2.4642E-05	1.9496E-05	1.3168E-05	2.1157E-06	5.2559E-07	2.2381E-07	7.9741E-08	0.0000E+00
NO	TKO21	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7698E-06	1.5895E-05	2.7303E-05	2.9444E-05	2.6061E-05	2.3287E-05	2.5018E-05	2.6829E-05	2.5246E-05	2.4294E-05	1.9280E-05	1.2787E-05	2.0554E-06	5.1152E-07	2.1714E-07	7.6934E-08	0.0000E+00
NO	TKO21	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5433E-06	1.5528E-05	2.6694E-05	2.9210E-05	2.6306E-05	2.2938E-05	2.4568E-05	2.6476E-05	2.5401E-05	2.3950E-05	1.8725E-05	1.2687E-05	2.0594E-06	5.1109E-07	2.1694E-07	7.7654E-08	0.0000E+00
NO	TKO21	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6474E-06	1.5649E-05	2.7033E-05	2.9655E-05	2.6187E-05	2.3418E-05	2.5257E-05	2.7081E-05	2.5627E-05	2.4047E-05	1.8985E-05	1.2737E-05	2.0508E-06	5.1310E-07	2.1736E-07	7.9090E-08	0.0000E+00
NO	TKO21	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.0908E-06	1.6626E-05	2.8436E-05	3.0924E-05	2.7220E-05	2.4336E-05	2.6151E-05	2.8059E-05	2.6913E-05	2.5511E-05	2.0310E-05	1.3767E-05	2.2195E-06	5.5464E-07	2.3502E-07	8.3569E-08	0.0000E+00
NO	TKO21	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1057E-06	1.6558E-05	2.8343E-05	3.0600E-05	2.7023E-05	2.3921E-05	2.5681E-05	2.7536E-05	2.6164E-05	2.4806E-05	1.9771E-05	1.3291E-05	2.1458E-06	5.3210E-07	2.2627E-07	8.3490E-08	0.0000E+00
NO	TKO21	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.2623E-06	1.6842E-05	2.8749E-05	3.1093E-05	2.7501E-05	2.4482E-05	2.6354E-05	2.8290E-05	2.6993E-05	2.5662E-05	2.0304E-05	1.3860E-05	2.2461E-06	5.5766E-07	2.3685E-07	8.4442E-08	0.0000E+00
NO	TKO21	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.4280E-06	1.7219E-05	2.9406E-05	3.1859E-05	2.8144E-05	2.5065E-05	2.6969E-05	2.8889E-05	2.7627E-05	2.6189E-05	2.0834E-05	1.4092E-05	2.2948E-06	5.7008E-07	2.4239E-07	8.6211E-08	0.0000E+00
NO	TKO22a	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9750E-06	9.4222E-06	1.0181E-05	1.0027E-05	8.8894E-06	9.2517E-06	9.9949E-06	1.0032E-05	1.0870E-05	7.5750E-06	5.8228E-06	2.9040E-06	1.1481E-06	4.9513E-07	1.7478E-07	0.0000E+00
NO	TKO22a	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8325E-06	9.0437E-06	9.6338E-06	9.3422E-06	8.3480E-06	8.6978E-06	9.4040E-06	9.6213E-06	1.0286E-05	7.0367E-06	5.3825E-06	2.7665E-06	1.0865E-06	4.6226E-07	1.6203E-07	0.0000E+00
NO	TKO22a	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8939E-06	9.1885E-06	9.8031E-06	9.5432E-06	8.4472E-06	8.7493E-06	9.5873E-06	9.6356E-06	1.0355E-05	7.1658E-06	5.5305E-06	2.7372E-06	1.0818E-06	4.6022E-07	1.6168E-07	0.0000E+00
NO	TKO22a	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6874E-06	8.5820E-06	9.3199E-06	9.2292E-06	8.1673E-06	8.3793E-06	9.1362E-06	9.1913E-06	9.9157E-06	6.8366E-06	5.2544E-06	2.6456E-06	1.0358E-06	4.4070E-07	1.5356E-07	0.0000E+00
NO	TKO22a	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6985E-06	8.7042E-06	9.2465E-06	9.0587E-06	7.9432E-06	8.3342E-06	9.0850E-06	9.2190E-06	9.8540E-06	6.8682E-06	5.2930E-06	2.5928E-06	1.0206E-06	4.3557E-07	1.5361E-07	0.0000E+00
NO	TKO22a	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5946E-06	8.2826E-06	8.7775E-06	8.6689E-06	7.7769E-06	8.0275E-06	8.7799E-06	8.5584E-06	9.5445E-06	6.7020E-06	4.9583E-06	2.4266E-06	9.5858E-07	4.0607E-07	1.4168E-07	0.0000E+00
NO	TKO22a	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4600E-06	7.8643E-06	8.6181E-06	8.8546E-06	7.5132E-06	7.7007E-06	8.5184E-06	8.6803E-06	9.2370E-06	6.2682E-06	4.8694E-06	2.4377E-06	9.5674E-07	4.0516E-07	1.4478E-07	0.0000E+00
NO	TKO22a	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5044E-06	8.0973E-06	8.9206E-06	8.7647E-06	7.8756E-06	8.2005E-06	8.9667E-06	8.8579E-06	9.3236E-06	6.4718E-06	4.9139E-06	2.4138E-06	9.6556E-07	4.0704E-07	1.5092E-07	0.0000E+00
NO	TKO22a	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8620E-06	9.0600E-06	9.7819E-06	9.5452E-06	8.5675E-06	8.8501E-06	9.6903E-06	9.8653E-06	1.0632E-05	7.5072E-06	5.8256E-06	2.8829E-06	1.1493E-06	4.8543E-07	1.7015E-07	0.0000E+00
NO	TKO22a	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8368E-06	8.9951E-06	9.5621E-06	9.3958E-06	8.2541E-06	8.5087E-06	9.3032E-06	9.2784E-06	1.0002E-05	7.0856E-06	5.4035E-06	2.6773E-06	1.0495E-06	4.4650E-07	1.6975E-07	0.0000E+00
NO	TKO22a	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9367E-06	9.2679E-06	9.8940E-06	9.7537E-06	8.6750E-06	8.9957E-06	9.8597E-06	9.9264E-06	1.0765E-05	7.4945E-06	5.9004E-06	2.9538E-06	1.1621E-06	4.9325E-07	1.7354E-07	0.0000E+00
NO	TKO22a	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0691E-06	9.7098E-06	1.0409E-05	1.0232E-05	9.1086E-06	9.4371E-06	1.0300E-05	1.0420E-05	1.1233E-05	7.9012E-06	6.1009E-06	3.0845E-06	1.2161E-06	5.1737E-07	1.8080E-07	0.0000E+00
NO	TKO22b	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9750E-06	9.4375E-06	1.0181E-05	1.0027E-05	8.8894E-06	9.2348E-06	9.9555E-06	1.0032E-05	1.0870E-05	7.5750E-06	5.8228E-06	2.9040E-06	1.1481E-06	4.9213E-07	1.7478E-07	0.0000E+00
NO	TKO22b	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8325E-06	9.0437E-06	9.6538E-06	9.4263E-06	8.3480E-06	8.6978E-06	9.4040E-06	9.5382E-06	1.0161E-05	7.0367E-06	5.3825E-06	2.7372E-06	1.0743E-06	4.6226E-07	1.6203E-07	0.0000E+00
NO	TKO22b	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8939E-06	9.1885E-06	9.8031E-06	9.5432E-06	8.4472E-06	8.7493E-06	9.5663E-06	9.6356E-06	1.0332E-05	7.1312E-06	5.4725E-06	2.7372E-06	1.0818E-06	4.6022E-07	1.6131E-07	0.0000E+00
NO	TKO22b	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6802E-06	8.5369E-06	9.2712E-06	9.2054E-06	8.0353E-06	8.3324E-06	9.1105E-06	9.1395E-06	9.8595E-06	6.8170E-06	5.2391E-06	2.6380E-06	1.0298E-06	4.3941E-07	1.5356E-07	0.0000E+00
NO	TKO22b	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6904E-06	8.6784E-06	9.2465E-06	8.9529E-06	7.9174E-06	8.3342E-06	9.0850E-06	9.1913E-06	9.8540E-06	6.8682E-06	5.2930E-06	2.5928E-06	1.0238E-06	4.3557E-07	1.5361E-07	0.0000E+00
NO	TKO22b	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5946E-06	8.2826E-06	8.7441E-06	8.5990E-06	7.7109E-06	8.0644E-06	8.7052E-06	8.6561E-06	9.4293E-06	6.7020E-06	4.9361E-06	2.4154E-06	9.5858E-07	4.0607E-07	1.4168E-07	0.0000E+00
NO	TKO22b	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4600E-06	7.7938E-06	8.5427E-06	8.7232E-06	7.3814E-06	7.5917E-06	8.4439E-06	8.6446E-06	9.2370E-06	6.2682E-06	4.8471E-06	2.4377E-06	9.5674E-07	4.0516E-07	1.4199E-07	0.0000E+00
NO	TKO22b	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5044E-06	8.0598E-06	8.9206E-06	8.7254E-06	7.7769E-06	8.1042E-06	8.8174E-06	8.8224E-06	9.3236E-06	6.4718E-06	4.9139E-06	2.4138E-06	9.6556E-07	3.9879E-07	1.5033E-07	0.0000E+00
NO	TKO22b	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8405E-06	9.0600E-06	9.7819E-06	9.5823E-06	8.5675E-06	8.8501E-06	9.6903E-06	9.8653E-06	1.0673E-05	7.4785E-06	5.8256E-06	2.8829E-06	1.1419E-06	4.8543E-07	1.7015E-07	0.0000E+00
NO	TKO22b	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8368E-06	8.9951E-06	9.5621E-06	9.3650E-06	8.2268E-06	8.4482E-06	9.2371E-06	9.2451E-06	9.9296E-06	7.0378E-06	5.3851E-06	2.6681E-06	1.0495E-06	4.4650E-07	1.6905E-07	0.0000E+00
NO	TKO22b	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9308E-06	9.2480E-06	9.8940E-06	9.7537E-06	8.6750E-06	8.9957E-06	9.8597E-06	9.9264E-06	1.0739E-05	7.4945E-06	5.9004E-06	2.9375E-06	1.1647E-06	4.9325E-07	1.7354E-07	0.0000E+00
NO	TKO22b	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0649E-06	9.6810E-06	1.0379E-05	1.0215E-05	9.0934E-06	9.4371E-06	1.0300E-05	1.0402E-05	1.1233E-05	7.9012E-06	6.1009E-06	3.0845E-06	1.2161E-06	5.1818E-07	1.8109E-07	0.0000E+00
NO	TKO22c	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9750E-06	9.4375E-06	1.0181E-05	1.0027E-05	8.8894E-06	9.2348E-06	9.9555E-06	1.0032E-05	1.0870E-05	7.5750E-06	5.8228E-06	2.9040E-06	1.1481E-06	4.9213E-07	1.7478E-07	0.0000E+00
NO	TKO22c	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8325E-06	9.0437E-06	9.6538E-06	9.4263E-06	8.3480E-06	8.6978E-06	9.4040E-06	9.5382E-06	1.0161E-05	7.0367E-06	5.3825E-06	2.7372E-06	1.0743E-06	4.6226E-07	1.6203E-07	0.0000E+00
NO	TKO22c	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8939E-06	9.1885E-06	9.8031E-06	9.5432E-06	8.4472E-06	8.7493E-06	9.5663E-06	9.6356E-06	1.0332E-05	7.1312E-06	5.4725E-06	2.7372E-06	1.0818E-06	4.6022E-07	1.6131E-07	0.0000E+00
NO	TKO22c	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6802E-06	8.5369E-06	9.2712E-06	9.2054E-06	8.0353E-06	8.3324E-06	9.1105E-06	9.1395E-06	9.8595E-06	6.8170E-06	5.2391E-06	2.6380E-06	1.0298E-06	4.3941E-07	1.5356E-07	0.0000E+00
NO	TKO22c	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6904E-06	8.6784E-06	9.2465E-06	8.9529E-06	7.9174E-06	8.3342E-06	9.0850E-06	9.1913E-06	9.8540E-06	6.8682E-06	5.2930E-06	2.5928E-06	1.0238E-06	4.3557E-07	1.5361E-07	0.0000E+00
NO	TKO22c	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5946E-06	8.2826E-06	8.7441E-06	8.5990E-06	7.7109E-06	8.0644E-06	8.7052E-06	8.6561E-06	9.4293E-06	6.7020E-06	4.9361E-06	2.4154E-06	9.5858E-07	4.0607E-07	1.4168E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	TKO22c	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4600E-06	7.7938E-06	8.5427E-06	8.7232E-06	7.3814E-06	7.5917E-06	8.4439E-06	8.6446E-06	9.2370E-06	6.2682E-06	4.8471E-06	2.4377E-06	9.5674E-07	4.0516E-07	1.4199E-07	0.0000E+00
NO	TKO22c	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5044E-06	8.0598E-06	8.9206E-06	8.7254E-06	7.7769E-06	8.1042E-06	8.8174E-06	8.8224E-06	9.3236E-06	6.4718E-06	4.9139E-06	2.4138E-06	9.6556E-07	3.9879E-07	1.5033E-07	0.0000E+00
NO	TKO22c	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8405E-06	9.0600E-06	9.7819E-06	9.5823E-06	8.5675E-06	8.8501E-06	9.6903E-06	9.8653E-06	1.0673E-05	7.4785E-06	5.8256E-06	2.8829E-06	1.1419E-06	4.8543E-07	1.7015E-07	0.0000E+00
NO	TKO22c	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8368E-06	8.9951E-06	9.5621E-06	9.3650E-06	8.2268E-06	8.4482E-06	9.2371E-06	9.2451E-06	9.9296E-06	7.0378E-06	5.3851E-06	2.6681E-06	1.0495E-06	4.4650E-07	1.6905E-07	0.0000E+00
NO	TKO22c	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9308E-06	9.2480E-06	9.8940E-06	9.7537E-06	8.6750E-06	8.9957E-06	9.8597E-06	9.9264E-06	1.0739E-05	7.4945E-06	5.9004E-06	2.9375E-06	1.1647E-06	4.9325E-07	1.7354E-07	0.0000E+00
NO	TKO22c	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0649E-06	9.6810E-06	1.0379E-05	1.0215E-05	9.0934E-06	9.4371E-06	1.0300E-05	1.0402E-05	1.1233E-05	7.9012E-06	6.1009E-06	3.0845E-06	1.2161E-06	5.1818E-07	1.8109E-07	0.0000E+00
NO	TKO22d	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9750E-06	9.4375E-06	1.0181E-05	1.0027E-05	8.8894E-06	9.2348E-06	9.9555E-06	1.0032E-05	1.0870E-05	7.5750E-06	5.8228E-06	2.9040E-06	1.1481E-06	4.9213E-07	1.7478E-07	0.0000E+00
NO	TKO22d	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8325E-06	9.0437E-06	9.6538E-06	9.4263E-06	8.3480E-06	8.6978E-06	9.4040E-06	9.5382E-06	1.0161E-05	7.0367E-06	5.3825E-06	2.7372E-06	1.0743E-06	4.6226E-07	1.6203E-07	0.0000E+00
NO	TKO22d	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8939E-06	9.1885E-06	9.8031E-06	9.5432E-06	8.4472E-06	8.7493E-06	9.5663E-06	9.6356E-06	1.0332E-05	7.1312E-06	5.4725E-06	2.7372E-06	1.0818E-06	4.6022E-07	1.6131E-07	0.0000E+00
NO	TKO22d	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6802E-06	8.5369E-06	9.2712E-06	9.2054E-06	8.0353E-06	8.3324E-06	9.1105E-06	9.1395E-06	9.8595E-06	6.8170E-06	5.2391E-06	2.6380E-06	1.0298E-06	4.3941E-07	1.5356E-07	0.0000E+00
NO	TKO22d	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6904E-06	8.6784E-06	9.2465E-06	8.9529E-06	7.9174E-06	8.3342E-06	9.0850E-06	9.1913E-06	9.8540E-06	6.8682E-06	5.2930E-06	2.5928E-06	1.0238E-06	4.3557E-07	1.5361E-07	0.0000E+00
NO	TKO22d	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5946E-06	8.2826E-06	8.7441E-06	8.5990E-06	7.7109E-06	8.0644E-06	8.7052E-06	8.6561E-06	9.4293E-06	6.7020E-06	4.9361E-06	2.4154E-06	9.5858E-07	4.0607E-07	1.4168E-07	0.0000E+00
NO	TKO22d	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4600E-06	7.7938E-06	8.5427E-06	8.7232E-06	7.3814E-06	7.5917E-06	8.4439E-06	8.6446E-06	9.2370E-06	6.2682E-06	4.8471E-06	2.4377E-06	9.5674E-07	4.0516E-07	1.4199E-07	0.0000E+00
NO	TKO22d	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5044E-06	8.0598E-06	8.9206E-06	8.7254E-06	7.7769E-06	8.1042E-06	8.8174E-06	8.8224E-06	9.3236E-06	6.4718E-06	4.9139E-06	2.4138E-06	9.6556E-07	3.9879E-07	1.5033E-07	0.0000E+00
NO	TKO22d	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8405E-06	9.0600E-06	9.7819E-06	9.5823E-06	8.5675E-06	8.8501E-06	9.6903E-06	9.8653E-06	1.0673E-05	7.4785E-06	5.8256E-06	2.8829E-06	1.1419E-06	4.8543E-07	1.7015E-07	0.0000E+00
NO	TKO22d	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8368E-06	8.9951E-06	9.5621E-06	9.3650E-06	8.2268E-06	8.4482E-06	9.2371E-06	9.2451E-06	9.9296E-06	7.0378E-06	5.3851E-06	2.6681E-06	1.0495E-06	4.4650E-07	1.6905E-07	0.0000E+00
NO	TKO22d	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9308E-06	9.2480E-06	9.8940E-06	9.7537E-06	8.6750E-06	8.9957E-06	9.8597E-06	9.9264E-06	1.0739E-05	7.4945E-06	5.9004E-06	2.9375E-06	1.1647E-06	4.9325E-07	1.7354E-07	0.0000E+00
NO	TKO22d	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0649E-06	9.6810E-06	1.0379E-05	1.0215E-05	9.0934E-06	9.4371E-06	1.0300E-05	1.0402E-05	1.1233E-05	7.9012E-06	6.1009E-06	3.0845E-06	1.2161E-06	5.1818E-07	1.8109E-07	0.0000E+00
NO	TKO22e	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9750E-06	9.4375E-06	1.0181E-05	1.0027E-05	8.8894E-06	9.2348E-06	9.9555E-06	1.0032E-05	1.0870E-05	7.5750E-06	5.8228E-06	2.9040E-06	1.1481E-06	4.9213E-07	1.7478E-07	0.0000E+00
NO	TKO22e	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8325E-06	9.0437E-06	9.6538E-06	9.4263E-06	8.3480E-06	8.6978E-06	9.4040E-06	9.5382E-06	1.0161E-05	7.0367E-06	5.3825E-06	2.7372E-06	1.0743E-06	4.6226E-07	1.6203E-07	0.0000E+00
NO	TKO22e	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8939E-06	9.1885E-06	9.8031E-06	9.5432E-06	8.4472E-06	8.7493E-06	9.5663E-06	9.6356E-06	1.0332E-05	7.1312E-06	5.4725E-06	2.7372E-06	1.0818E-06	4.6022E-07	1.6131E-07	0.0000E+00
NO	TKO22e	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6802E-06	8.5369E-06	9.2712E-06	9.2054E-06	8.0353E-06	8.3324E-06	9.1105E-06	9.1395E-06	9.8595E-06	6.8170E-06	5.2391E-06	2.6380E-06	1.0298E-06	4.3941E-07	1.5356E-07	0.0000E+00
NO	TKO22e	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6904E-06	8.6784E-06	9.2465E-06	8.9529E-06	7.9174E-06	8.3342E-06	9.0850E-06	9.1913E-06	9.8540E-06	6.8682E-06	5.2930E-06	2.5928E-06	1.0238E-06	4.3557E-07	1.5361E-07	0.0000E+00
NO	TKO22e	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5946E-06	8.2826E-06	8.7441E-06	8.5990E-06	7.7109E-06	8.0644E-06	8.7052E-06	8.6561E-06	9.4293E-06	6.7020E-06	4.9361E-06	2.4154E-06	9.5858E-07	4.0607E-07	1.4168E-07	0.0000E+00
NO	TKO22e	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4600E-06	7.7938E-06	8.5427E-06	8.7232E-06	7.3814E-06	7.5917E-06	8.4439E-06	8.6446E-06	9.2370E-06	6.2682E-06	4.8471E-06	2.4377E-06	9.5674E-07	4.0516E-07	1.4199E-07	0.0000E+00
NO	TKO22e	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5044E-06	8.0598E-06	8.9206E-06	8.7254E-06	7.7769E-06	8.1042E-06	8.8174E-06	8.8224E-06	9.3236E-06	6.4718E-06	4.9139E-06	2.4138E-06	9.6556E-07	3.9879E-07	1.5033E-07	0.0000E+00
NO	TKO22e	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8405E-06	9.0600E-06	9.7819E-06	9.5823E-06	8.5675E-06	8.8501E-06	9.6903E-06	9.8653E-06	1.0673E-05	7.4785E-06	5.8256E-06	2.8829E-06	1.1419E-06	4.8543E-07	1.7015E-07	0.0000E+00
NO	TKO22e	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8368E-06	8.9951E-06	9.5621E-06	9.3650E-06	8.2268E-06	8.4482E-06	9.2371E-06	9.2451E-06	9.9296E-06	7.0378E-06	5.3851E-06	2.6681E-06	1.0495E-06	4.4650E-07	1.6905E-07	0.0000E+00
NO	TKO22e	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9308E-06	9.2480E-06	9.8940E-06	9.7537E-06	8.6750E-06	8.9957E-06	9.8597E-06	9.9264E-06	1.0739E-05	7.4945E-06	5.9004E-06	2.9375E-06	1.1647E-06	4.9325E-07	1.7354E-07	0.0000E+00
NO	TKO22e	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0649E-06	9.6810E-06	1.0379E-05	1.0215E-05	9.0934E-06	9.4371E-06	1.0300E-05	1.0402E-05	1.1233E-05	7.9012E-06	6.1009E-06	3.0845E-06	1.2161E-06	5.1818E-07	1.8109E-07	0.0000E+00
NO	TKO22f	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9750E-06	9.4375E-06	1.0181E-05	1.0027E-05	8.8894E-06	9.2348E-06	9.9555E-06	1.0032E-05	1.0870E-05	7.5750E-06	5.8228E-06	2.9040E-06	1.1481E-06	4.9213E-07	1.7478E-07	0.0000E+00
NO	TKO22f	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8325E-06	9.0437E-06	9.6538E-06	9.4263E-06	8.3480E-06	8.6978E-06	9.4040E-06	9.5382E-06	1.0161E-05	7.0367E-06	5.3825E-06	2.7372E-06	1.0743E-06	4.6226E-07	1.6203E-07	0.0000E+00
NO	TKO22f	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8939E-06	9.1885E-06	9.8031E-06	9.5432E-06	8.4472E-06	8.7493E-06	9.5663E-06	9.6356E-06	1.0332E-05	7.1312E-06	5.4725E-06	2.7372E-06	1.0818E-06	4.6022E-07	1.6131E-07	0.0000E+00
NO	TKO22f	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6802E-06	8.5369E-06	9.2712E-06	9.2054E-06	8.0353E-06	8.3324E-06	9.1105E-06	9.1395E-06	9.8595E-06	6.8170E-06	5.2391E-06	2.6380E-06	1.0298E-06	4.3941E-07	1.5356E-07	0.0000E+00
NO	TKO22f	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6904E-06	8.6784E-06	9.2465E-06	8.9529E-06	7.9174E-06	8.3342E-06	9.0850E-06	9.1913E-06	9.8540E-06	6.8682E-06	5.2930E-06	2.5928E-06	1.0238E-06	4.3557E-07	1.5361E-07	0.0000E+00
NO	TKO22f	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5946E-06	8.2826E-06	8.7441E-06	8.5990E-06	7.7109E-06	8.0644E-06	8.7052E-06	8.6561E-06	9.4293E-06	6.7020E-06	4.9361E-06	2.4154E-06	9.5858E-07	4.0607E-07	1.4168E-07	0.0000E+00
NO	TKO22f	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4600E-06	7.7938E-06	8.5427E-06	8.7232E-06	7.3814E-06	7.5917E-06	8.4439E-06	8.6446E-06	9.2370E-06	6.2682E-06	4.8471E-06	2.4377E-06	9.5674E-07	4.0516E-07	1.4199E-07	0.0000E+00
NO	TKO22f	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5044E-06	8.0598E-06	8.9206E-06	8.7254E-06	7.7769E-06	8.1042E-06	8.8174E-06	8.8224E-06	9.3236E-06	6.4718E-06	4.9139E-06	2.4138E-06	9.6556E-07	3.9879E-07	1.5033E-07	0.0000E+00
NO	TKO22f	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8405E-06	9.0600E-06	9.7819E-06	9.5823E-06	8.5675E-06	8.8501E-06	9.6903E-06	9.8653E-06	1.0673E-05	7.4785E-06	5.8256E-06	2.8829E-06	1.1419E-06	4.8543E-07	1.7015E-07	0.0000E+00
NO	TKO22f	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8368E-06	8.9951E-06	9.5621E-06	9.3650E-06	8.2268E-06	8.4482E-06	9.2371E-06	9.2451E-06	9.9296E-06	7.0378E-06	5.3851E-06	2.6681E-06	1.0495E-06	4.4650E-07	1.6905E-07	0.0000E+00
NO	TKO22f	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9308E-06	9.2480E-06	9.8940E-06	9.7537E-06	8.6750E-06	8.9957E-06	9.8597E-06	9.9264E-06	1.0739E-05	7.4945E-06	5.9004E-06	2.9375E-06	1.1647E-06	4.9325E-07	1.7354E-07	0.0000E+00
NO	TKO22f	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0649E-06	9.6810E-06	1.0379E-05	1.0215E-05	9.0934E-06	9.4371E-06	1.0300E-05	1.0402E-05	1.1233E-05	7.9012E-06	6.1009E-06	3.0845E-06	1.2161E-06	5.1818E-07	1.8109E-07	0.0000E+00
NO	TKO22g	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9750E-06	9.4375E-06	1.0181E-05	1.0027E-05	8.8894E-06	9.2348E-06	9.9555E-06	1.0032E-05	1.0870E-05	7.5750E-06	5.8228E-06	2.9040E-06	1.1481E-06	4.9213E-07	1.7478E-07	0.0000E+00
NO	TKO22g	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8325E-06	9.0437E-06	9.6538E-06	9.4263E-06	8.3480E-06	8.6978E-06	9.4040E-06	9.5382E-06	1.0161E-05	7.0367E-06	5.3825E-06	2.7372E-06	1.0743E-06	4.6226E-07	1.6203E-07	0.0000E+00
NO	TKO22g	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8939E-06	9.1885E-06	9.8031E-06	9.5432E-06	8.4472E-06	8.7493E-06	9.5663E-06	9.6356E-06	1.0332E-05	7.1312E-06	5.4725E-06	2.7372E-06	1.0818E-06	4.6022E-07	1.6131E-07	0.0000E+00
NO	TKO22g	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6802E-06	8.5369E-06	9.2712E-06	9.2054E-06	8.0353E-06	8.3324E-06	9.1105E-06	9.1395E-06	9.8595E-06	6.8170E-06	5.2391E-06	2.6380E-06	1.0298E-06	4.3941E-07	1.5356E-07	0.0000E+00
NO	TKO22g	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6904E-06	8.6784E-06	9.2465E-06	8.9529E-06	7.9174E-06	8.3342E-06	9.0850E-06	9.1913E-06	9.8540E-06	6.8682E-06	5.2930E-06	2.5928E-06	1.0238E-06	4.3557E-07	1.5361E-07	0.0000E+00
NO	TKO22g	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5946E-06	8.2826E-06	8.7441E-06	8.5990E-06	7.7109E-06	8.0644E-06	8.7052E-06	8.6561E-06	9.4293E-06	6.7020E-06	4.9361E-06	2.4154E-06	9.5858E-07	4.0607E-07	1.4168E-07	0.0000E+00
NO	TKO22g	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4600E-06	7.7938E-06	8.5427E-06	8.7232E-06	7.3814E-06	7.5917E-06	8.4439E-06	8.6446E-06	9.2370E-06	6.2682E-06	4.8471E-06	2.4377E-06	9.5674E-07	4.0516E-07	1.4199E-07	0.0000E+00
NO	TKO22g	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5044E-06	8.0598E-06	8.9206E-06	8.7254E-06	7.7769E-06	8.1042E-06	8.8174E-06	8.8224E-06	9.3236E-06	6.4718E-06	4.9139E-06	2.4138E-06	9.6556E-07	3.9879E-07	1.5033E-07	0.0000E+00
NO	TKO22g	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8405E-06	9.0600E-06	9.7819E-06	9.5823E-06	8.5675E-06	8.8501E-06	9.6903E-06	9.8653E-06	1.0673E-05	7.4785E-06	5.8256E-06	2.8829E-06	1.1419E-06	4.8543E-07	1.7015E-07	0.0000E+00
NO	TKO22g	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8368E-06	8.9951E-06	9.5621E-06	9.3650E-06	8.2268E-06	8.4482E-06	9.2371E-06	9.2451E-06	9.9296E-06	7.0378E-06	5.3851E-06	2.6681E-06	1.0495E-06	4.4650E-07	1.6905E-07	0.0000E+00
NO	TKO22g	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9308E-06	9.2480E-06	9.8940E-06	9.7537E-06	8.6750E-06	8.9957E-06	9.8597E-06	9.9264E-06	1.0739E-05	7.4945E-06	5.9004E-06	2.9375E-06	1.1647E-06	4.9325E-07	1.7354E-07	0.0000E+00
NO	TKO22g	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0649E-06	9.6810E-06	1.0379E-05	1.0215E-05	9.0934E-06	9.4371E-06	1.0300E-05	1.0402E-05	1.1233E-05	7.9012E-06	6.1009E-06	3.0845E-06	1.2161E-06	5.1818E-07	1.8109E-07	0.0000E+00
NO	TKO22h	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9750E-06	9.4222E-06	1.0181E-05	1.0027E-05	8.8894E-06	9.2517E-06	9.9949E-06	1.0032E-05	1.0870E-05	7.5750E-06	5.8228E-06	2.9040E-06	1.1481E-06	4.9513E-07	1.7478E-07	0.0000E+00
NO	TKO22h	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8325E-06	9.0437E-06	9.6338E-06	9.3422E-06	8.3480E-06	8.6978E-06	9.4040E-06	9.6213E-06	1.0286E-05	7.0367E-06	5.3825E-06	2.7665E-06	1.0865E-06	4.6226E-07	1.6203E-07	0.0000E+00
NO	TKO22h	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8939E-06	9.1885E-06	9.8031E-06	9.5432E-06	8.4472E-06	8.7493E-06	9.5873E-06	9.6356E-06	1.0355E-05	7.1658E-06	5.5305E-06	2.7372E-06	1.0818E-06	4.6022E-07	1.6168E-07	0.0000E+00
NO	TKO22h	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6874E-06	8.5820E-06	9.3199E-06	9.2292E-06	8.1673E-06	8.3793E-06	9.1362E-06	9.1913E-06	9.9157E-06	6.8366E-06	5.2544E-06	2.6456E-06	1.0358E-06	4.4070E-07	1.5356E-07	0.0000E+00
NO	TKO22h	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6985E-06	8.7042E-06	9.2465E-06	9.0587E-06	7.9432E-06	8.3342E-06	9.0850E-06	9.2190E-06	9.8540E-06	6.8682E-06	5.2930E-06	2.5928E-06	1.0206E-06	4.3557E-07	1.5361E-07	0.0000E+00
NO	TKO22h	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5946E-06	8.2826E-06	8.7775E-06	8.6689E-06	7.7769E-06	8.0275E-06	8.7799E-06	8.5584E-06	9.5445E-06	6.7020E-06	4.9583E-06	2.4266E-06	9.5858E-07	4.0607E-07	1.4168E-07	0.0000E+00
NO	TKO22h	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4600E-06	7.8643E-06	8.6181E-06	8.8546E-06	7.5132E-06	7.7007E-06	8.5184E-06	8.6803E-06	9.2370E-06	6.2682E-06	4.8694E-06	2.4377E-06	9.5674E-07	4.0516E-07	1.4478E-07	0.0000E+00
NO	TKO22h	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5044E-06	8.0973E-06	8.9206E-06	8.7647E-06	7.8756E-06	8.2005E-06	8.9667E-06	8.8579E-06	9.3236E-06	6.4718E-06	4.9139E-06	2.4138E-06	9.6556E-07	4.0704E-07	1.5092E-07	0.0000E+00
NO	TKO22h	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8620E-06	9.0600E-06	9.7819E-06	9.5452E-06	8.5675E-06	8.8501E-06	9.6903E-06	9.8653E-06	1.0632E-05	7.5072E-06	5.8256E-06	2.8829E-06	1.1493E-06	4.8543E-07	1.7015E-07	0.0000E+00
NO	TKO22h	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8368E-06	8.9951E-06	9.5621E-06	9.3958E-06	8.2541E-06	8.5087E-06	9.3032E-06	9.2784E-06	1.0002E-05	7.0856E-06	5.4035E-06	2.6773E-06	1.0495E-06	4.4650E-07	1.6975E-07	0.0000E+00
NO	TKO22h	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9367E-06	9.2679E-06	9.8940E-06	9.7537E-06	8.6750E-06	8.9957E-06	9.8597E-06	9.9264E-06	1.0765E-05	7.4945E-06	5.9004E-06	2.9538E-06	1.1621E-06	4.9325E-07	1.7354E-07	0.0000E+00
NO	TKO22h	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0691E-06	9.7098E-06	1.0409E-05	1.0232E-05	9.1086E-06	9.4371E-06	1.0300E-05	1.0420E-05	1.1233E-05	7.9012E-06	6.1009E-06	3.0845E-06	1.2161E-06	5.1737E-07	1.8080E-07	0.0000E+00
NO	TKO23a	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3250E-05	1.3186E-05	1.3183E-05	1.3289E-05	1.3320E-05	1.3310E-05	1.3359E-05	1.3200E-05	1.3096E-05	1.3116E-05	1.2994E-05	1.2922E-05	5.2663E-06	5.2564E-06	5.3281E-06	5.3656E-06	0.0000E+00
NO	TKO23a	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2533E-05	1.2557E-05	1.2655E-05	1.2577E-05	1.2413E-05	1.2502E-05	1.2561E-05	1.2422E-05	1.2561E-05	1.2413E-05	1.2074E-05	1.1948E-05	5.0179E-06	4.9754E-06	4.9754E-06	4.9754E-06	0.0000E+00
NO	TKO23a	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2774E-05	1.2830E-05	1.2857E-05	1.2798E-05	1.2680E-05	1.2650E-05	1.2636E-05	1.2663E-05	1.2580E-05	1.2497E-05	1.2295E-05	1.2275E-05	4.9649E-06	4.9536E-06	4.9536E-06	4.9649E-06	0.0000E+00
NO	TKO23a	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1758E-05	1.1916E-05	1.2011E-05	1.2169E-05	1.2264E-05	1.2232E-05	1.2103E-05	1.2069E-05	1.2002E-05	1.1968E-05	1.1732E-05	1.1665E-05	4.7995E-06	4.7443E-06	4.7443E-06	4.7167E-06	0.0000E+00
NO	TKO23a	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2137E-05	1.1966E-05	1.2182E-05	1.2074E-05	1.2038E-05	1.1898E-05	1.2038E-05	1.2002E-05	1.2038E-05	1.1894E-05	1.1786E-05	1.1750E-05	4.7039E-06	4.6745E-06	4.6892E-06	4.7186E-06	0.0000E+00
NO	TKO23a	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1464E-05	1.1507E-05	1.1594E-05	1.1463E-05	1.1522E-05	1.1649E-05	1.1597E-05	1.1600E-05	1.1178E-05	1.1522E-05	1.1502E-05	1.1010E-05	4.4033E-06	4.3915E-06	4.3727E-06	4.3537E-06	0.0000E+00
NO	TKO23a	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0714E-05	1.0911E-05	1.1010E-05	1.1256E-05	1.1768E-05	1.1256E-05	1.1126E-05	1.1256E-05	1.1337E-05	1.1152E-05	1.0760E-05	1.0813E-05	4.4235E-06	4.3832E-06	4.3630E-06	4.4484E-06	0.0000E+00
NO	TKO23a	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1059E-05	1.1108E-05	1.1335E-05	1.1649E-05	1.1649E-05	1.1797E-05	1.1846E-05	1.1847E-05	1.1568E-05	1.1256E-05	1.1108E-05	1.0911E-05	4.3802E-06	4.4235E-06	4.3832E-06	4.6362E-06	0.0000E+00
NO	TKO23a	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2526E-05	1.2689E-05	1.2679E-05	1.2771E-05	1.2683E-05	1.2831E-05	1.2782E-05	1.2800E-05	1.2880E-05	1.2831E-05	1.2880E-05	1.2929E-05	5.2289E-06	5.2625E-06	5.2246E-06	5.2246E-06	0.0000E+00
NO	TKO23a	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2575E-05	1.2577E-05	1.2588E-05	1.2485E-05	1.2485E-05	1.2362E-05	1.2290E-05	1.2290E-05	1.2116E-05	1.2072E-05	1.2158E-05	1.1995E-05	4.8569E-06	4.8068E-06	4.8068E-06	5.2124E-06	0.0000E+00
NO	TKO23a	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3092E-05	1.3018E-05	1.2968E-05	1.2917E-05	1.2959E-05	1.2991E-05	1.2991E-05	1.3022E-05	1.2959E-05	1.2991E-05	1.2857E-05	1.3094E-05	5.3567E-06	5.3204E-06	5.3082E-06	5.3278E-06	0.0000E+00
NO	TKO23a	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3639E-05	1.3603E-05	1.3584E-05	1.3586E-05	1.3592E-05	1.3638E-05	1.3626E-05	1.3601E-05	1.3601E-05	1.3553E-05	1.3553E-05	1.3537E-05	5.5928E-06	5.5667E-06	5.5667E-06	5.5494E-06	0.0000E+00
NO	TKO23b	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3250E-05	1.3186E-05	1.3183E-05	1.3289E-05	1.3320E-05	1.3310E-05	1.3359E-05	1.3200E-05	1.3096E-05	1.3116E-05	1.2994E-05	1.2922E-05	5.2663E-06	5.2564E-06	5.3281E-06	5.3656E-06	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	TKO23b	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2533E-05	1.2557E-05	1.2655E-05	1.2577E-05	1.2413E-05	1.2502E-05	1.2561E-05	1.2422E-05	1.2561E-05	1.2413E-05	1.2074E-05	1.1948E-05	5.0179E-06	4.9754E-06	4.9754E-06	4.9754E-06	0.0000E+00
NO	TKO23b	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2774E-05	1.2830E-05	1.2857E-05	1.2798E-05	1.2680E-05	1.2650E-05	1.2636E-05	1.2663E-05	1.2580E-05	1.2497E-05	1.2295E-05	1.2275E-05	4.9649E-06	4.9536E-06	4.9536E-06	4.9649E-06	0.0000E+00
NO	TKO23b	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1758E-05	1.1916E-05	1.2011E-05	1.2169E-05	1.2264E-05	1.2232E-05	1.2103E-05	1.2069E-05	1.2002E-05	1.1968E-05	1.1732E-05	1.1665E-05	4.7995E-06	4.7443E-06	4.7443E-06	4.7167E-06	0.0000E+00
NO	TKO23b	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2137E-05	1.1966E-05	1.2182E-05	1.2074E-05	1.2038E-05	1.1898E-05	1.2038E-05	1.2002E-05	1.2038E-05	1.1894E-05	1.1786E-05	1.1750E-05	4.7039E-06	4.6745E-06	4.6892E-06	4.7186E-06	0.0000E+00
NO	TKO23b	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1464E-05	1.1507E-05	1.1594E-05	1.1463E-05	1.1522E-05	1.1649E-05	1.1597E-05	1.1600E-05	1.1178E-05	1.1522E-05	1.1502E-05	1.1010E-05	4.4033E-06	4.3915E-06	4.3727E-06	4.3537E-06	0.0000E+00
NO	TKO23b	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0714E-05	1.0911E-05	1.1010E-05	1.1256E-05	1.1768E-05	1.1256E-05	1.1126E-05	1.1256E-05	1.1337E-05	1.1152E-05	1.0760E-05	1.0813E-05	4.4235E-06	4.3832E-06	4.3630E-06	4.4484E-06	0.0000E+00
NO	TKO23b	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1059E-05	1.1108E-05	1.1335E-05	1.1649E-05	1.1649E-05	1.1797E-05	1.1846E-05	1.1847E-05	1.1568E-05	1.1256E-05	1.1108E-05	1.0911E-05	4.3802E-06	4.4235E-06	4.3832E-06	4.6362E-06	0.0000E+00
NO	TKO23b	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2526E-05	1.2689E-05	1.2679E-05	1.2771E-05	1.2683E-05	1.2831E-05	1.2782E-05	1.2800E-05	1.2880E-05	1.2831E-05	1.2880E-05	1.2929E-05	5.2289E-06	5.2625E-06	5.2246E-06	5.2246E-06	0.0000E+00
NO	TKO23b	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2575E-05	1.2577E-05	1.2588E-05	1.2485E-05	1.2485E-05	1.2362E-05	1.2290E-05	1.2290E-05	1.2116E-05	1.2072E-05	1.2158E-05	1.1995E-05	4.8569E-06	4.8068E-06	4.8068E-06	5.2124E-06	0.0000E+00
NO	TKO23b	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3092E-05	1.3018E-05	1.2968E-05	1.2917E-05	1.2959E-05	1.2991E-05	1.2991E-05	1.3022E-05	1.2959E-05	1.2991E-05	1.2857E-05	1.3094E-05	5.3567E-06	5.3204E-06	5.3082E-06	5.3278E-06	0.0000E+00
NO	TKO23b	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3639E-05	1.3603E-05	1.3584E-05	1.3586E-05	1.3592E-05	1.3638E-05	1.3626E-05	1.3601E-05	1.3601E-05	1.3553E-05	1.3553E-05	1.3537E-05	5.5928E-06	5.5667E-06	5.5667E-06	5.5494E-06	0.0000E+00
NO	TKO23c	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3250E-05	1.3186E-05	1.3183E-05	1.3289E-05	1.3320E-05	1.3310E-05	1.3359E-05	1.3200E-05	1.3096E-05	1.3116E-05	1.2994E-05	1.2922E-05	5.2663E-06	5.2564E-06	5.3281E-06	5.3656E-06	0.0000E+00
NO	TKO23c	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2533E-05	1.2557E-05	1.2655E-05	1.2577E-05	1.2413E-05	1.2502E-05	1.2561E-05	1.2422E-05	1.2561E-05	1.2413E-05	1.2074E-05	1.1948E-05	5.0179E-06	4.9754E-06	4.9754E-06	4.9754E-06	0.0000E+00
NO	TKO23c	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2774E-05	1.2830E-05	1.2857E-05	1.2798E-05	1.2680E-05	1.2650E-05	1.2636E-05	1.2663E-05	1.2580E-05	1.2497E-05	1.2295E-05	1.2275E-05	4.9649E-06	4.9536E-06	4.9536E-06	4.9649E-06	0.0000E+00
NO	TKO23c	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1758E-05	1.1916E-05	1.2011E-05	1.2169E-05	1.2264E-05	1.2232E-05	1.2103E-05	1.2069E-05	1.2002E-05	1.1968E-05	1.1732E-05	1.1665E-05	4.7995E-06	4.7443E-06	4.7443E-06	4.7167E-06	0.0000E+00
NO	TKO23c	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2137E-05	1.1966E-05	1.2182E-05	1.2074E-05	1.2038E-05	1.1898E-05	1.2038E-05	1.2002E-05	1.2038E-05	1.1894E-05	1.1786E-05	1.1750E-05	4.7039E-06	4.6745E-06	4.6892E-06	4.7186E-06	0.0000E+00
NO	TKO23c	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1464E-05	1.1507E-05	1.1594E-05	1.1463E-05	1.1522E-05	1.1649E-05	1.1597E-05	1.1600E-05	1.1178E-05	1.1522E-05	1.1502E-05	1.1010E-05	4.4033E-06	4.3915E-06	4.3727E-06	4.3537E-06	0.0000E+00
NO	TKO23c	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0714E-05	1.0911E-05	1.1010E-05	1.1256E-05	1.1768E-05	1.1256E-05	1.1126E-05	1.1256E-05	1.1337E-05	1.1152E-05	1.0760E-05	1.0813E-05	4.4235E-06	4.3832E-06	4.3630E-06	4.4484E-06	0.0000E+00
NO	TKO23c	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1059E-05	1.1108E-05	1.1335E-05	1.1649E-05	1.1649E-05	1.1797E-05	1.1846E-05	1.1847E-05	1.1568E-05	1.1256E-05	1.1108E-05	1.0911E-05	4.3802E-06	4.4235E-06	4.3832E-06	4.6362E-06	0.0000E+00
NO	TKO23c	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2526E-05	1.2689E-05	1.2679E-05	1.2771E-05	1.2683E-05	1.2831E-05	1.2782E-05	1.2800E-05	1.2880E-05	1.2831E-05	1.2880E-05	1.2929E-05	5.2289E-06	5.2625E-06	5.2246E-06	5.2246E-06	0.0000E+00
NO	TKO23c	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2575E-05	1.2577E-05	1.2588E-05	1.2485E-05	1.2485E-05	1.2362E-05	1.2290E-05	1.2290E-05	1.2116E-05	1.2072E-05	1.2158E-05	1.1995E-05	4.8569E-06	4.8068E-06	4.8068E-06	5.2124E-06	0.0000E+00
NO	TKO23c	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3092E-05	1.3018E-05	1.2968E-05	1.2917E-05	1.2959E-05	1.2991E-05	1.2991E-05	1.3022E-05	1.2959E-05	1.2991E-05	1.2857E-05	1.3094E-05	5.3567E-06	5.3204E-06	5.3082E-06	5.3278E-06	0.0000E+00
NO	TKO23c	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3639E-05	1.3603E-05	1.3584E-05	1.3586E-05	1.3592E-05	1.3638E-05	1.3626E-05	1.3601E-05	1.3601E-05	1.3553E-05	1.3553E-05	1.3537E-05	5.5928E-06	5.5667E-06	5.5667E-06	5.5494E-06	0.0000E+00
NO	TKO23d	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3250E-05	1.3186E-05	1.3204E-05	1.3289E-05	1.3320E-05	1.3310E-05	1.3334E-05	1.3148E-05	1.3096E-05	1.3116E-05	1.2994E-05	1.2922E-05	5.2663E-06	5.2564E-06	5.2961E-06	5.3656E-06	0.0000E+00
NO	TKO23d	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2557E-05	1.2557E-05	1.2655E-05	1.2603E-05	1.2525E-05	1.2502E-05	1.2561E-05	1.2422E-05	1.2454E-05	1.2264E-05	1.2074E-05	1.1948E-05	4.9649E-06	4.9196E-06	4.9754E-06	4.9754E-06	0.0000E+00
NO	TKO23d	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2774E-05	1.2830E-05	1.2857E-05	1.2798E-05	1.2680E-05	1.2650E-05	1.2636E-05	1.2636E-05	1.2580E-05	1.2469E-05	1.2236E-05	1.2147E-05	4.9649E-06	4.9536E-06	4.9536E-06	4.9536E-06	0.0000E+00
NO	TKO23d	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1727E-05	1.1885E-05	1.1948E-05	1.2106E-05	1.2232E-05	1.2036E-05	1.2036E-05	1.2036E-05	1.1934E-05	1.1901E-05	1.1698E-05	1.1631E-05	4.7857E-06	4.7167E-06	4.7305E-06	4.7167E-06	0.0000E+00
NO	TKO23d	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2137E-05	1.1930E-05	1.2146E-05	1.2074E-05	1.1898E-05	1.1860E-05	1.2038E-05	1.2002E-05	1.2002E-05	1.1894E-05	1.1786E-05	1.1750E-05	4.7039E-06	4.6892E-06	4.6892E-06	4.7186E-06	0.0000E+00
NO	TKO23d	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1464E-05	1.1507E-05	1.1594E-05	1.1420E-05	1.1429E-05	1.1551E-05	1.1649E-05	1.1502E-05	1.1305E-05	1.1383E-05	1.1502E-05	1.0961E-05	4.3832E-06	4.3915E-06	4.3727E-06	4.3537E-06	0.0000E+00
NO	TKO23d	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0764E-05	1.0911E-05	1.0911E-05	1.1157E-05	1.1594E-05	1.1059E-05	1.0969E-05	1.1157E-05	1.1290E-05	1.1152E-05	1.0760E-05	1.0764E-05	4.4235E-06	4.3832E-06	4.3630E-06	4.3630E-06	0.0000E+00
NO	TKO23d	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0911E-05	1.1108E-05	1.1283E-05	1.1649E-05	1.1597E-05	1.1649E-05	1.1707E-05	1.1649E-05	1.1522E-05	1.1256E-05	1.1108E-05	1.0911E-05	4.3802E-06	4.4235E-06	4.2946E-06	4.6184E-06	0.0000E+00
NO	TKO23d	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2567E-05	1.2594E-05	1.2679E-05	1.2771E-05	1.2732E-05	1.2831E-05	1.2782E-05	1.2800E-05	1.2880E-05	1.2880E-05	1.2831E-05	1.2929E-05	5.2289E-06	5.2289E-06	5.2246E-06	5.2246E-06	0.0000E+00
NO	TKO23d	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2609E-05	1.2577E-05	1.2588E-05	1.2485E-05	1.2444E-05	1.2322E-05	1.2203E-05	1.2203E-05	1.2072E-05	1.1985E-05	1.2077E-05	1.1954E-05	4.8402E-06	4.8068E-06	4.8068E-06	5.1912E-06	0.0000E+00
NO	TKO23d	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3092E-05	1.2992E-05	1.2940E-05	1.2917E-05	1.2959E-05	1.2991E-05	1.2991E-05	1.3022E-05	1.2959E-05	1.2959E-05	1.2857E-05	1.3094E-05	5.3272E-06	5.3325E-06	5.3082E-06	5.3278E-06	0.0000E+00
NO	TKO23d	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3622E-05	1.3584E-05	1.3544E-05	1.3547E-05	1.3569E-05	1.3615E-05	1.3626E-05	1.3601E-05	1.3577E-05	1.3553E-05	1.3553E-05	1.3537E-05	5.5928E-06	5.5667E-06	5.5755E-06	5.5581E-06	0.0000E+00
NO	TKO23e	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3250E-05	1.3186E-05	1.3204E-05	1.3289E-05	1.3320E-05	1.3310E-05	1.3334E-05	1.3148E-05	1.3096E-05	1.3116E-05	1.2994E-05	1.2922E-05	5.2663E-06	5.2564E-06	5.2961E-06	5.3656E-06	0.0000E+00
NO	TKO23e	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2557E-05	1.2557E-05	1.2655E-05	1.2603E-05	1.2525E-05	1.2502E-05	1.2561E-05	1.2422E-05	1.2454E-05	1.2264E-05	1.2074E-05	1.1948E-05	4.9649E-06	4.9196E-06	4.9754E-06	4.9754E-06	0.0000E+00
NO	TKO23e	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2774E-05	1.2830E-05	1.2857E-05	1.2798E-05	1.2680E-05	1.2650E-05	1.2636E-05	1.2636E-05	1.2580E-05	1.2469E-05	1.2236E-05	1.2147E-05	4.9649E-06	4.9536E-06	4.9536E-06	4.9536E-06	0.0000E+00
NO	TKO23e	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1727E-05	1.1885E-05	1.1948E-05	1.2106E-05	1.2232E-05	1.2036E-05	1.2036E-05	1.2036E-05	1.1934E-05	1.1901E-05	1.1698E-05	1.1631E-05	4.7857E-06	4.7167E-06	4.7305E-06	4.7167E-06	0.0000E+00
NO	TKO23e	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2137E-05	1.1930E-05	1.2146E-05	1.2074E-05	1.1898E-05	1.1860E-05	1.2038E-05	1.2002E-05	1.2002E-05	1.1894E-05	1.1786E-05	1.1750E-05	4.7039E-06	4.6892E-06	4.6892E-06	4.7186E-06	0.0000E+00
NO	TKO23e	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1464E-05	1.1507E-05	1.1594E-05	1.1420E-05	1.1429E-05	1.1551E-05	1.1649E-05	1.1502E-05	1.1305E-05	1.1383E-05	1.1502E-05	1.0961E-05	4.3832E-06	4.3915E-06	4.3727E-06	4.3537E-06	0.0000E+00
NO	TKO23e	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0764E-05	1.0911E-05	1.0911E-05	1.1157E-05	1.1594E-05	1.1059E-05	1.0969E-05	1.1157E-05	1.1290E-05	1.1152E-05	1.0760E-05	1.0764E-05	4.4235E-06	4.3832E-06	4.3630E-06	4.3630E-06	0.0000E+00
NO	TKO23e	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0911E-05	1.1108E-05	1.1283E-05	1.1649E-05	1.1597E-05	1.1649E-05	1.1707E-05	1.1649E-05	1.1522E-05	1.1256E-05	1.1108E-05	1.0911E-05	4.3802E-06	4.4235E-06	4.2946E-06	4.6184E-06	0.0000E+00
NO	TKO23e	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2567E-05	1.2594E-05	1.2679E-05	1.2771E-05	1.2732E-05	1.2831E-05	1.2782E-05	1.2800E-05	1.2880E-05	1.2880E-05	1.2831E-05	1.2929E-05	5.2289E-06	5.2289E-06	5.2246E-06	5.2246E-06	0.0000E+00
NO	TKO23e	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2609E-05	1.2577E-05	1.2588E-05	1.2485E-05	1.2444E-05	1.2322E-05	1.2203E-05	1.2203E-05	1.2072E-05	1.1985E-05	1.2077E-05	1.1954E-05	4.8402E-06	4.8068E-06	4.8068E-06	5.1912E-06	0.0000E+00
NO	TKO23e	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3092E-05	1.2992E-05	1.2940E-05	1.2917E-05	1.2959E-05	1.2991E-05	1.2991E-05	1.3022E-05	1.2959E-05	1.2959E-05	1.2857E-05	1.3094E-05	5.3272E-06	5.3325E-06	5.3082E-06	5.3278E-06	0.0000E+00
NO	TKO23e	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3622E-05	1.3584E-05	1.3544E-05	1.3547E-05	1.3569E-05	1.3615E-05	1.3626E-05	1.3601E-05	1.3577E-05	1.3553E-05	1.3553E-05	1.3537E-05	5.5928E-06	5.5667E-06	5.5755E-06	5.5581E-06	0.0000E+00
NO	TKO23f	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3250E-05	1.3186E-05	1.3204E-05	1.3289E-05	1.3320E-05	1.3310E-05	1.3334E-05	1.3148E-05	1.3096E-05	1.3116E-05	1.2994E-05	1.2922E-05	5.2663E-06	5.2564E-06	5.2961E-06	5.3656E-06	0.0000E+00
NO	TKO23f	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2557E-05	1.2557E-05	1.2655E-05	1.2603E-05	1.2525E-05	1.2502E-05	1.2561E-05	1.2422E-05	1.2454E-05	1.2264E-05	1.2074E-05	1.1948E-05	4.9649E-06	4.9196E-06	4.9754E-06	4.9754E-06	0.0000E+00
NO	TKO23f	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2774E-05	1.2830E-05	1.2857E-05	1.2798E-05	1.2680E-05	1.2650E-05	1.2636E-05	1.2636E-05	1.2580E-05	1.2469E-05	1.2236E-05	1.2147E-05	4.9649E-06	4.9536E-06	4.9536E-06	4.9536E-06	0.0000E+00
NO	TKO23f	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1727E-05	1.1885E-05	1.1948E-05	1.2106E-05	1.2232E-05	1.2036E-05	1.2036E-05	1.2036E-05	1.1934E-05	1.1901E-05	1.1698E-05	1.1631E-05	4.7857E-06	4.7167E-06	4.7305E-06	4.7167E-06	0.0000E+00
NO	TKO23f	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2137E-05	1.1930E-05	1.2146E-05	1.2074E-05	1.1898E-05	1.1860E-05	1.2038E-05	1.2002E-05	1.2002E-05	1.1894E-05	1.1786E-05	1.1750E-05	4.7039E-06	4.6892E-06	4.6892E-06	4.7186E-06	0.0000E+00
NO	TKO23f	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1464E-05	1.1507E-05	1.1594E-05	1.1420E-05	1.1429E-05	1.1551E-05	1.1649E-05	1.1502E-05	1.1305E-05	1.1383E-05	1.1502E-05	1.0961E-05	4.3832E-06	4.3915E-06	4.3727E-06	4.3537E-06	0.0000E+00
NO	TKO23f	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0764E-05	1.0911E-05	1.0911E-05	1.1157E-05	1.1594E-05	1.1059E-05	1.0969E-05	1.1157E-05	1.1290E-05	1.1152E-05	1.0760E-05	1.0764E-05	4.4235E-06	4.3832E-06	4.3630E-06	4.3630E-06	0.0000E+00
NO	TKO23f	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0911E-05	1.1108E-05	1.1283E-05	1.1649E-05	1.1597E-05	1.1649E-05	1.1707E-05	1.1649E-05	1.1522E-05	1.1256E-05	1.1108E-05	1.0911E-05	4.3802E-06	4.4235E-06	4.2946E-06	4.6184E-06	0.0000E+00
NO	TKO23f	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2567E-05	1.2594E-05	1.2679E-05	1.2771E-05	1.2732E-05	1.2831E-05	1.2782E-05	1.2800E-05	1.2880E-05	1.2880E-05	1.2831E-05	1.2929E-05	5.2289E-06	5.2289E-06	5.2246E-06	5.2246E-06	0.0000E+00
NO	TKO23f	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2609E-05	1.2577E-05	1.2588E-05	1.2485E-05	1.2444E-05	1.2322E-05	1.2203E-05	1.2203E-05	1.2072E-05	1.1985E-05	1.2077E-05	1.1954E-05	4.8402E-06	4.8068E-06	4.8068E-06	5.1912E-06	0.0000E+00
NO	TKO23f	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3092E-05	1.2992E-05	1.2940E-05	1.2917E-05	1.2959E-05	1.2991E-05	1.2991E-05	1.3022E-05	1.2959E-05	1.2959E-05	1.2857E-05	1.3094E-05	5.3272E-06	5.3325E-06	5.3082E-06	5.3278E-06	0.0000E+00
NO	TKO23f	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3622E-05	1.3584E-05	1.3544E-05	1.3547E-05	1.3569E-05	1.3615E-05	1.3626E-05	1.3601E-05	1.3577E-05	1.3553E-05	1.3553E-05	1.3537E-05	5.5928E-06	5.5667E-06	5.5755E-06	5.5581E-06	0.0000E+00
NO	TKO23g	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3250E-05	1.3186E-05	1.3204E-05	1.3289E-05	1.3320E-05	1.3310E-05	1.3334E-05	1.3148E-05	1.3096E-05	1.3116E-05	1.2994E-05	1.2922E-05	5.2663E-06	5.2564E-06	5.2961E-06	5.3656E-06	0.0000E+00
NO	TKO23g	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2557E-05	1.2557E-05	1.2655E-05	1.2603E-05	1.2525E-05	1.2502E-05	1.2561E-05	1.2422E-05	1.2454E-05	1.2264E-05	1.2074E-05	1.1948E-05	4.9649E-06	4.9196E-06	4.9754E-06	4.9754E-06	0.0000E+00
NO	TKO23g	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2774E-05	1.2830E-05	1.2857E-05	1.2798E-05	1.2680E-05	1.2650E-05	1.2636E-05	1.2636E-05	1.2580E-05	1.2469E-05	1.2236E-05	1.2147E-05	4.9649E-06	4.9536E-06	4.9536E-06	4.9536E-06	0.0000E+00
NO	TKO23g	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1727E-05	1.1885E-05	1.1948E-05	1.2106E-05	1.2232E-05	1.2036E-05	1.2036E-05	1.2036E-05	1.1934E-05	1.1901E-05	1.1698E-05	1.1631E-05	4.7857E-06	4.7167E-06	4.7305E-06	4.7167E-06	0.0000E+00
NO	TKO23g	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2137E-05	1.1930E-05	1.2146E-05	1.2074E-05	1.1898E-05	1.1860E-05	1.2038E-05	1.2002E-05	1.2002E-05	1.1894E-05	1.1786E-05	1.1750E-05	4.7039E-06	4.6892E-06	4.6892E-06	4.7186E-06	0.0000E+00
NO	TKO23g	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1464E-05	1.1507E-05	1.1594E-05	1.1420E-05	1.1429E-05	1.1551E-05	1.1649E-05	1.1502E-05	1.1305E-05	1.1383E-05	1.1502E-05	1.0961E-05	4.3832E-06	4.3915E-06	4.3727E-06	4.3537E-06	0.0000E+00
NO	TKO23g	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0764E-05	1.0911E-05	1.0911E-05	1.1157E-05	1.1594E-05	1.1059E-05	1.0969E-05	1.1157E-05	1.1290E-05	1.1152E-05	1.0760E-05	1.0764E-05	4.4235E-06	4.3832E-06	4.3630E-06	4.3630E-06	0.0000E+00
NO	TKO23g	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0911E-05	1.1108E-05	1.1283E-05	1.1649E-05	1.1597E-05	1.1649E-05	1.1707E-05	1.1649E-05	1.1522E-05	1.1256E-05	1.1108E-05	1.0911E-05	4.3802E-06	4.4235E-06	4.2946E-06	4.6184E-06	0.0000E+00
NO	TKO23g	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2567E-05	1.2594E-05	1.2679E-05	1.2771E-05	1.2732E-05	1.2831E-05	1.2782E-05	1.2800E-05	1.2880E-05	1.2880E-05	1.2831E-05	1.2929E-05	5.2289E-06	5.2289E-06	5.2246E-06	5.2246E-06	0.0000E+00
NO	TKO23g	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2609E-05	1.2577E-05	1.2588E-05	1.2485E-05	1.2444E-05	1.2322E-05	1.2203E-05	1.2203E-05	1.2072E-05	1.1985E-05	1.2077E-05	1.1954E-05	4.8402E-06	4.8068E-06	4.8068E-06	5.1912E-06	0.0000E+00
NO	TKO23g	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3092E-05	1.2992E-05	1.2940E-05	1.2917E-05	1.2959E-05	1.2991E-05	1.2991E-05	1.3022E-05	1.2959E-05	1.2959E-05	1.2857E-05	1.3094E-05	5.3272E-06	5.3325E-06	5.3082E-06	5.3278E-06	0.0000E+00
NO	TKO23g	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3622E-05	1.3584E-05	1.3544E-05	1.3547E-05	1.3569E-05	1.3615E-05	1.3626E-05	1.3601E-05	1.3577E-05	1.3553E-05	1.3553E-05	1.3537E-05	5.5928E-06	5.5667E-06	5.5755E-06	5.5581E-06	0.0000E+00
NO	TKO23h	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3194E-05	1.3107E-05	1.3077E-05	1.3161E-05	1.3161E-05	1.3116E-05	1.3067E-05	1.3044E-05	1.2966E-05	1.3019E-05	1.2922E-05	1.2873E-05	5.2464E-06	5.2265E-06	5.2762E-06	5.3557E-06	0.0000E+00
NO	TKO23h	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2460E-05	1.2412E-05	1.2485E-05	1.2422E-05	1.2303E-05	1.2206E-05	1.2147E-05	1.2384E-05	1.2295E-05	1.2169E-05	1.1979E-05	1.1885E-05	4.9536E-06	4.9542E-06	4.9648E-06	4.9542E-06	0.0000E+00
NO	TKO23h	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2636E-05	1.2663E-05	1.2691E-05	1.2591E-05	1.2473E-05	1.2443E-05	1.2386E-05	1.2497E-05	1.2414E-05	1.2331E-05	1.2147E-05	1.2088E-05	4.8845E-06	4.9082E-06	4.8724E-06	4.9422E-06	0.0000E+00
NO	TKO23h	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1600E-05	1.1727E-05	1.1727E-05	1.1821E-05	1.1885E-05	1.1821E-05	1.1821E-05	1.1799E-05	1.1732E-05	1.1732E-05	1.1530E-05	1.1563E-05	4.7581E-06	4.6892E-06	4.7167E-06	4.6892E-06	0.0000E+00
NO	TKO23h	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2002E-05	1.1786E-05	1.1894E-05	1.1822E-05	1.1786E-05	1.1678E-05	1.1678E-05	1.1822E-05	1.1822E-05	1.1750E-05	1.1678E-05	1.1714E-05	4.6745E-06	4.6598E-06	4.6451E-06	4.6745E-06	0.0000E+00
NO	TKO23h	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1341E-05	1.1246E-05	1.1115E-05	1.1115E-05	1.1159E-05	1.1198E-05	1.1059E-05	1.1157E-05	1.1010E-05	1.1152E-05	1.1305E-05	1.0862E-05	4.3630E-06	4.2422E-06	4.3537E-06	4.3158E-06	0.0000E+00
NO	TKO23h	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0616E-05	1.0764E-05	1.0446E-05	1.0655E-05	1.1376E-05	1.0813E-05	1.0655E-05	1.0961E-05	1.0966E-05	1.0920E-05	1.0498E-05	1.0616E-05	4.3630E-06	4.3227E-06	4.3227E-06	4.3429E-06	0.0000E+00
NO	TKO23h	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0714E-05	1.0764E-05	1.0969E-05	1.1256E-05	1.1354E-05	1.1337E-05	1.1244E-05	1.1256E-05	1.1244E-05	1.1010E-05	1.0911E-05	1.0764E-05	4.3160E-06	4.3630E-06	4.2305E-06	4.4673E-06	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	TKO23h	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2322E-05	1.2444E-05	1.2551E-05	1.2494E-05	1.2447E-05	1.2486E-05	1.2437E-05	1.2535E-05	1.2585E-05	1.2585E-05	1.2634E-05	1.2683E-05	5.1483E-06	5.1081E-06	5.1081E-06	5.1300E-06	0.0000E+00
NO	TKO23h	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2474E-05	1.2398E-05	1.2396E-05	1.2358E-05	1.2199E-05	1.2117E-05	1.2158E-05	1.2029E-05	1.1898E-05	1.1811E-05	1.1724E-05	1.1681E-05	4.7608E-06	4.7073E-06	4.7252E-06	5.1075E-06	0.0000E+00
NO	TKO23h	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3019E-05	1.2889E-05	1.2802E-05	1.2857E-05	1.2828E-05	1.2769E-05	1.2769E-05	1.2833E-05	1.2801E-05	1.2864E-05	1.2706E-05	1.2896E-05	5.2885E-06	5.2368E-06	5.2598E-06	5.2938E-06	0.0000E+00
NO	TKO23h	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3552E-05	1.3510E-05	1.3465E-05	1.3459E-05	1.3456E-05	1.3501E-05	1.3480E-05	1.3456E-05	1.3480E-05	1.3456E-05	1.3456E-05	1.3459E-05	5.5581E-06	5.5406E-06	5.5406E-06	5.4954E-06	0.0000E+00
NO2	CVEH14_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3507E-07	5.3202E-07	5.3094E-07	5.3393E-07	5.3389E-07	5.3233E-07	5.3063E-07	5.2983E-07	5.2709E-07	5.2893E-07	5.2552E-07	5.2382E-07	5.2216E-07	5.2046E-07	5.2469E-07	5.3146E-07	0.0000E+00
NO2	CVEH14_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0941E-07	5.0771E-07	5.1025E-07	5.0806E-07	5.0389E-07	5.0052E-07	4.9844E-07	5.0674E-07	5.0365E-07	4.9924E-07	4.9261E-07	4.8927E-07	4.9712E-07	4.9716E-07	4.9809E-07	4.9716E-07	0.0000E+00
NO2	CVEH14_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1552E-07	5.1650E-07	5.1747E-07	5.1396E-07	5.0983E-07	5.0879E-07	5.0681E-07	5.1070E-07	5.0778E-07	5.0487E-07	4.9844E-07	4.9639E-07	4.9122E-07	4.9323E-07	4.9018E-07	4.9615E-07	0.0000E+00
NO2	CVEH14_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7934E-07	4.8375E-07	4.8375E-07	4.8709E-07	4.8927E-07	4.8709E-07	4.8709E-07	4.8632E-07	4.8396E-07	4.8396E-07	4.7688E-07	4.7806E-07	4.8042E-07	4.7452E-07	4.7688E-07	4.7452E-07	0.0000E+00
NO2	CVEH14_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9337E-07	4.8584E-07	4.8962E-07	4.8709E-07	4.8584E-07	4.8209E-07	4.8209E-07	4.8709E-07	4.8709E-07	4.8459E-07	4.8209E-07	4.8334E-07	4.7327E-07	4.7202E-07	4.7077E-07	4.7327E-07	0.0000E+00
NO2	CVEH14_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7032E-07	4.6695E-07	4.6240E-07	4.6240E-07	4.6393E-07	4.6528E-07	4.6042E-07	4.6386E-07	4.5872E-07	4.6365E-07	4.6903E-07	4.5355E-07	4.4667E-07	4.3632E-07	4.4587E-07	4.4264E-07	0.0000E+00
NO2	CVEH14_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4493E-07	4.5011E-07	4.3900E-07	4.4629E-07	4.7153E-07	4.5181E-07	4.4629E-07	4.5698E-07	4.5719E-07	4.5556E-07	4.4080E-07	4.4493E-07	4.4667E-07	4.4323E-07	4.4323E-07	4.4493E-07	0.0000E+00
NO2	CVEH14_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4837E-07	4.5011E-07	4.5726E-07	4.6730E-07	4.7073E-07	4.7014E-07	4.6688E-07	4.6730E-07	4.6688E-07	4.5872E-07	4.5525E-07	4.5011E-07	4.4264E-07	4.4667E-07	4.3532E-07	4.5556E-07	0.0000E+00
NO2	CVEH14_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0455E-07	5.0886E-07	5.1257E-07	5.1056E-07	5.0896E-07	5.1032E-07	5.0858E-07	5.1205E-07	5.1375E-07	5.1375E-07	5.1549E-07	5.1719E-07	5.1375E-07	5.1032E-07	5.1032E-07	5.1219E-07	0.0000E+00
NO2	CVEH14_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0987E-07	5.0723E-07	5.0716E-07	5.0584E-07	5.0028E-07	4.9743E-07	4.9886E-07	4.9431E-07	4.8976E-07	4.8671E-07	4.8368E-07	4.8216E-07	4.8063E-07	4.7608E-07	4.7761E-07	5.1028E-07	0.0000E+00
NO2	CVEH14_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2893E-07	5.2438E-07	5.2136E-07	5.2327E-07	5.2226E-07	5.2021E-07	5.2021E-07	5.2243E-07	5.2132E-07	5.2351E-07	5.1799E-07	5.2462E-07	5.2573E-07	5.2132E-07	5.2330E-07	5.2618E-07	0.0000E+00
NO2	CVEH14_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4757E-07	5.4608E-07	5.4452E-07	5.4431E-07	5.4421E-07	5.4580E-07	5.4504E-07	5.4421E-07	5.4504E-07	5.4421E-07	5.4421E-07	5.4434E-07	5.4875E-07	5.4730E-07	5.4730E-07	5.4341E-07	0.0000E+00
NO2	CVEH14_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3507E-07	5.3202E-07	5.3094E-07	5.3393E-07	5.3389E-07	5.3233E-07	5.3063E-07	5.2983E-07	5.2709E-07	5.2893E-07	5.2552E-07	5.2382E-07	5.2216E-07	5.2046E-07	5.2469E-07	5.3146E-07	0.0000E+00
NO2	CVEH14_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0941E-07	5.0771E-07	5.1025E-07	5.0806E-07	5.0389E-07	5.0052E-07	4.9844E-07	5.0674E-07	5.0365E-07	4.9924E-07	4.9261E-07	4.8927E-07	4.9712E-07	4.9716E-07	4.9809E-07	4.9716E-07	0.0000E+00
NO2	CVEH14_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1552E-07	5.1650E-07	5.1747E-07	5.1396E-07	5.0983E-07	5.0879E-07	5.0681E-07	5.1070E-07	5.0778E-07	5.0487E-07	4.9844E-07	4.9639E-07	4.9122E-07	4.9323E-07	4.9018E-07	4.9615E-07	0.0000E+00
NO2	CVEH14_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7934E-07	4.8375E-07	4.8375E-07	4.8709E-07	4.8927E-07	4.8709E-07	4.8709E-07	4.8632E-07	4.8396E-07	4.8396E-07	4.7688E-07	4.7806E-07	4.8042E-07	4.7452E-07	4.7688E-07	4.7452E-07	0.0000E+00
NO2	CVEH14_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9337E-07	4.8584E-07	4.8962E-07	4.8709E-07	4.8584E-07	4.8209E-07	4.8209E-07	4.8709E-07	4.8709E-07	4.8459E-07	4.8209E-07	4.8334E-07	4.7327E-07	4.7202E-07	4.7077E-07	4.7327E-07	0.0000E+00
NO2	CVEH14_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7032E-07	4.6695E-07	4.6240E-07	4.6240E-07	4.6393E-07	4.6528E-07	4.6042E-07	4.6386E-07	4.5872E-07	4.6365E-07	4.6903E-07	4.5355E-07	4.4667E-07	4.3632E-07	4.4587E-07	4.4264E-07	0.0000E+00
NO2	CVEH14_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4493E-07	4.5011E-07	4.3900E-07	4.4629E-07	4.7153E-07	4.5181E-07	4.4629E-07	4.5698E-07	4.5719E-07	4.5556E-07	4.4080E-07	4.4493E-07	4.4667E-07	4.4323E-07	4.4323E-07	4.4493E-07	0.0000E+00
NO2	CVEH14_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4837E-07	4.5011E-07	4.5726E-07	4.6730E-07	4.7073E-07	4.7014E-07	4.6688E-07	4.6730E-07	4.6688E-07	4.5872E-07	4.5525E-07	4.5011E-07	4.4264E-07	4.4667E-07	4.3532E-07	4.5556E-07	0.0000E+00
NO2	CVEH14_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0455E-07	5.0886E-07	5.1257E-07	5.1056E-07	5.0896E-07	5.1032E-07	5.0858E-07	5.1205E-07	5.1375E-07	5.1375E-07	5.1549E-07	5.1719E-07	5.1375E-07	5.1032E-07	5.1032E-07	5.1219E-07	0.0000E+00
NO2	CVEH14_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0987E-07	5.0723E-07	5.0716E-07	5.0584E-07	5.0028E-07	4.9743E-07	4.9886E-07	4.9431E-07	4.8976E-07	4.8671E-07	4.8368E-07	4.8216E-07	4.8063E-07	4.7608E-07	4.7761E-07	5.1028E-07	0.0000E+00
NO2	CVEH14_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2893E-07	5.2438E-07	5.2136E-07	5.2327E-07	5.2226E-07	5.2021E-07	5.2021E-07	5.2243E-07	5.2132E-07	5.2351E-07	5.1799E-07	5.2462E-07	5.2573E-07	5.2132E-07	5.2330E-07	5.2618E-07	0.0000E+00
NO2	CVEH14_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4757E-07	5.4608E-07	5.4452E-07	5.4431E-07	5.4421E-07	5.4580E-07	5.4504E-07	5.4421E-07	5.4504E-07	5.4421E-07	5.4421E-07	5.4434E-07	5.4875E-07	5.4730E-07	5.4730E-07	5.4341E-07	0.0000E+00
NO2	CVEH14_3	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3507E-07	5.3202E-07	5.3094E-07	5.3393E-07	5.3389E-07	5.3233E-07	5.3063E-07	5.2983E-07	5.2709E-07	5.2893E-07	5.2552E-07	5.2382E-07	5.2216E-07	5.2046E-07	5.2469E-07	5.3146E-07	0.0000E+00
NO2	CVEH14_3	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0941E-07	5.0771E-07	5.1025E-07	5.0806E-07	5.0389E-07	5.0052E-07	4.9844E-07	5.0674E-07	5.0365E-07	4.9924E-07	4.9261E-07	4.8927E-07	4.9712E-07	4.9716E-07	4.9809E-07	4.9716E-07	0.0000E+00
NO2	CVEH14_3	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1552E-07	5.1650E-07	5.1747E-07	5.1396E-07	5.0983E-07	5.0879E-07	5.0681E-07	5.1070E-07	5.0778E-07	5.0487E-07	4.9844E-07	4.9639E-07	4.9122E-07	4.9323E-07	4.9018E-07	4.9615E-07	0.0000E+00
NO2	CVEH14_3	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7934E-07	4.8375E-07	4.8375E-07	4.8709E-07	4.8927E-07	4.8709E-07	4.8709E-07	4.8632E-07	4.8396E-07	4.8396E-07	4.7688E-07	4.7806E-07	4.8042E-07	4.7452E-07	4.7688E-07	4.7452E-07	0.0000E+00
NO2	CVEH14_3	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9337E-07	4.8584E-07	4.8962E-07	4.8709E-07	4.8584E-07	4.8209E-07	4.8209E-07	4.8709E-07	4.8709E-07	4.8459E-07	4.8209E-07	4.8334E-07	4.7327E-07	4.7202E-07	4.7077E-07	4.7327E-07	0.0000E+00
NO2	CVEH14_3	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7032E-07	4.6695E-07	4.6240E-07	4.6240E-07	4.6393E-07	4.6528E-07	4.6042E-07	4.6386E-07	4.5872E-07	4.6365E-07	4.6903E-07	4.5355E-07	4.4667E-07	4.3632E-07	4.4587E-07	4.4264E-07	0.0000E+00
NO2	CVEH14_3	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4493E-07	4.5011E-07	4.3900E-07	4.4629E-07	4.7153E-07	4.5181E-07	4.4629E-07	4.5698E-07	4.5719E-07	4.5556E-07	4.4080E-07	4.4493E-07	4.4667E-07	4.4323E-07	4.4323E-07	4.4493E-07	0.0000E+00
NO2	CVEH14_3	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4837E-07	4.5011E-07	4.5726E-07	4.6730E-07	4.7073E-07	4.7014E-07	4.6688E-07	4.6730E-07	4.6688E-07	4.5872E-07	4.5525E-07	4.5011E-07	4.4264E-07	4.4667E-07	4.3532E-07	4.5556E-07	0.0000E+00
NO2	CVEH14_3	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0455E-07	5.0886E-07	5.1257E-07	5.1056E-07	5.0896E-07	5.1032E-07	5.0858E-07	5.1205E-07	5.1375E-07	5.1375E-07	5.1549E-07	5.1719E-07	5.1375E-07	5.1032E-07	5.1032E-07	5.1219E-07	0.0000E+00
NO2	CVEH14_3	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0987E-07	5.0723E-07	5.0716E-07	5.0584E-07	5.0028E-07	4.9743E-07	4.9886E-07	4.9431E-07	4.8976E-07	4.8671E-07	4.8368E-07	4.8216E-07	4.8063E-07	4.7608E-07	4.7761E-07	5.1028E-07	0.0000E+00
NO2	CVEH14_3	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2893E-07	5.2438E-07	5.2136E-07	5.2327E-07	5.2226E-07	5.2021E-07	5.2021E-07	5.2243E-07	5.2132E-07	5.2351E-07	5.1799E-07	5.2462E-07	5.2573E-07	5.2132E-07	5.2330E-07	5.2618E-07	0.0000E+00
NO2	CVEH14_3	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4757E-07	5.4608E-07	5.4452E-07	5.4431E-07	5.4421E-07	5.4580E-07	5.4504E-07	5.4421E-07	5.4504E-07	5.4421E-07	5.4421E-07	5.4434E-07	5.4875E-07	5.4730E-07	5.4730E-07	5.4341E-07	0.0000E+00
NO2	CVEH14_4	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3507E-07	5.3202E-07	5.3094E-07	5.3393E-07	5.3389E-07	5.3233E-07	5.3063E-07	5.2983E-07	5.2709E-07	5.2893E-07	5.2552E-07	5.2382E-07	5.2216E-07	5.2046E-07	5.2469E-07	5.3146E-07	0.0000E+00
NO2	CVEH14_4	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0941E-07	5.0771E-07	5.1025E-07	5.0806E-07	5.0389E-07	5.0052E-07	4.9844E-07	5.0674E-07	5.0365E-07	4.9924E-07	4.9261E-07	4.8927E-07	4.9712E-07	4.9716E-07	4.9809E-07	4.9716E-07	0.0000E+00
NO2	CVEH14_4	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1552E-07	5.1650E-07	5.1747E-07	5.1396E-07	5.0983E-07	5.0879E-07	5.0681E-07	5.1070E-07	5.0778E-07	5.0487E-07	4.9844E-07	4.9639E-07	4.9122E-07	4.9323E-07	4.9018E-07	4.9615E-07	0.0000E+00
NO2	CVEH14_4	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7934E-07	4.8375E-07	4.8375E-07	4.8709E-07	4.8927E-07	4.8709E-07	4.8709E-07	4.8632E-07	4.8396E-07	4.8396E-07	4.7688E-07	4.7806E-07	4.8042E-07	4.7452E-07	4.7688E-07	4.7452E-07	0.0000E+00
NO2	CVEH14_4	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9337E-07	4.8584E-07	4.8962E-07	4.8709E-07	4.8584E-07	4.8209E-07	4.8209E-07	4.8709E-07	4.8709E-07	4.8459E-07	4.8209E-07	4.8334E-07	4.7327E-07	4.7202E-07	4.7077E-07	4.7327E-07	0.0000E+00
NO2	CVEH14_4	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7032E-07	4.6695E-07	4.6240E-07	4.6240E-07	4.6393E-07	4.6528E-07	4.6042E-07	4.6386E-07	4.5872E-07	4.6365E-07	4.6903E-07	4.5355E-07	4.4667E-07	4.3632E-07	4.4587E-07	4.4264E-07	0.0000E+00
NO2	CVEH14_4	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4493E-07	4.5011E-07	4.3900E-07	4.4629E-07	4.7153E-07	4.5181E-07	4.4629E-07	4.5698E-07	4.5719E-07	4.5556E-07	4.4080E-07	4.4493E-07	4.4667E-07	4.4323E-07	4.4323E-07	4.4493E-07	0.0000E+00
NO2	CVEH14_4	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4837E-07	4.5011E-07	4.5726E-07	4.6730E-07	4.7073E-07	4.7014E-07	4.6688E-07	4.6730E-07	4.6688E-07	4.5872E-07	4.5525E-07	4.5011E-07	4.4264E-07	4.4667E-07	4.3532E-07	4.5556E-07	0.0000E+00
NO2	CVEH14_4	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0455E-07	5.0886E-07	5.1257E-07	5.1056E-07	5.0896E-07	5.1032E-07	5.0858E-07	5.1205E-07	5.1375E-07	5.1375E-07	5.1549E-07	5.1719E-07	5.1375E-07	5.1032E-07	5.1032E-07	5.1219E-07	0.0000E+00
NO2	CVEH14_4	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0987E-07	5.0723E-07	5.0716E-07	5.0584E-07	5.0028E-07	4.9743E-07	4.9886E-07	4.9431E-07	4.8976E-07	4.8671E-07	4.8368E-07	4.8216E-07	4.8063E-07	4.7608E-07	4.7761E-07	5.1028E-07	0.0000E+00
NO2	CVEH14_4	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2893E-07	5.2438E-07	5.2136E-07	5.2327E-07	5.2226E-07	5.2021E-07	5.2021E-07	5.2243E-07	5.2132E-07	5.2351E-07	5.1799E-07	5.2462E-07	5.2573E-07	5.2132E-07	5.2330E-07	5.2618E-07	0.0000E+00
NO2	CVEH14_4	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4757E-07	5.4608E-07	5.4452E-07	5.4431E-07	5.4421E-07	5.4580E-07	5.4504E-07	5.4421E-07	5.4504E-07	5.4421E-07	5.4421E-07	5.4434E-07	5.4875E-07	5.4730E-07	5.4730E-07	5.4341E-07	0.0000E+00
NO2	CVEH14_5	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3507E-07	5.3202E-07	5.3094E-07	5.3393E-07	5.3389E-07	5.3233E-07	5.3063E-07	5.2983E-07	5.2709E-07	5.2893E-07	5.2552E-07	5.2382E-07	5.2216E-07	5.2046E-07	5.2469E-07	5.3146E-07	0.0000E+00
NO2	CVEH14_5	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0941E-07	5.0771E-07	5.1025E-07	5.0806E-07	5.0389E-07	5.0052E-07	4.9844E-07	5.0674E-07	5.0365E-07	4.9924E-07	4.9261E-07	4.8927E-07	4.9712E-07	4.9716E-07	4.9809E-07	4.9716E-07	0.0000E+00
NO2	CVEH14_5	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1552E-07	5.1650E-07	5.1747E-07	5.1396E-07	5.0983E-07	5.0879E-07	5.0681E-07	5.1070E-07	5.0778E-07	5.0487E-07	4.9844E-07	4.9639E-07	4.9122E-07	4.9323E-07	4.9018E-07	4.9615E-07	0.0000E+00
NO2	CVEH14_5	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7934E-07	4.8375E-07	4.8375E-07	4.8709E-07	4.8927E-07	4.8709E-07	4.8709E-07	4.8632E-07	4.8396E-07	4.8396E-07	4.7688E-07	4.7806E-07	4.8042E-07	4.7452E-07	4.7688E-07	4.7452E-07	0.0000E+00
NO2	CVEH14_5	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9337E-07	4.8584E-07	4.8962E-07	4.8709E-07	4.8584E-07	4.8209E-07	4.8209E-07	4.8709E-07	4.8709E-07	4.8459E-07	4.8209E-07	4.8334E-07	4.7327E-07	4.7202E-07	4.7077E-07	4.7327E-07	0.0000E+00
NO2	CVEH14_5	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7032E-07	4.6695E-07	4.6240E-07	4.6240E-07	4.6393E-07	4.6528E-07	4.6042E-07	4.6386E-07	4.5872E-07	4.6365E-07	4.6903E-07	4.5355E-07	4.4667E-07	4.3632E-07	4.4587E-07	4.4264E-07	0.0000E+00
NO2	CVEH14_5	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4493E-07	4.5011E-07	4.3900E-07	4.4629E-07	4.7153E-07	4.5181E-07	4.4629E-07	4.5698E-07	4.5719E-07	4.5556E-07	4.4080E-07	4.4493E-07	4.4667E-07	4.4323E-07	4.4323E-07	4.4493E-07	0.0000E+00
NO2	CVEH14_5	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4837E-07	4.5011E-07	4.5726E-07	4.6730E-07	4.7073E-07	4.7014E-07	4.6688E-07	4.6730E-07	4.6688E-07	4.5872E-07	4.5525E-07	4.5011E-07	4.4264E-07	4.4667E-07	4.3532E-07	4.5556E-07	0.0000E+00
NO2	CVEH14_5	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0455E-07	5.0886E-07	5.1257E-07	5.1056E-07	5.0896E-07	5.1032E-07	5.0858E-07	5.1205E-07	5.1375E-07	5.1375E-07	5.1549E-07	5.1719E-07	5.1375E-07	5.1032E-07	5.1032E-07	5.1219E-07	0.0000E+00
NO2	CVEH14_5	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0987E-07	5.0723E-07	5.0716E-07	5.0584E-07	5.0028E-07	4.9743E-07	4.9886E-07	4.9431E-07	4.8976E-07	4.8671E-07	4.8368E-07	4.8216E-07	4.8063E-07	4.7608E-07	4.7761E-07	5.1028E-07	0.0000E+00
NO2	CVEH14_5	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2893E-07	5.2438E-07	5.2136E-07	5.2327E-07	5.2226E-07	5.2021E-07	5.2021E-07	5.2243E-07	5.2132E-07	5.2351E-07	5.1799E-07	5.2462E-07	5.2573E-07	5.2132E-07	5.2330E-07	5.2618E-07	0.0000E+00
NO2	CVEH14_5	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4757E-07	5.4608E-07	5.4452E-07	5.4431E-07	5.4421E-07	5.4580E-07	5.4504E-07	5.4421E-07	5.4504E-07	5.4421E-07	5.4421E-07	5.4434E-07	5.4875E-07	5.4730E-07	5.4730E-07	5.4341E-07	0.0000E+00
NO2	CVEH14_6	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3507E-07	5.3202E-07	5.3094E-07	5.3393E-07	5.3389E-07	5.3233E-07	5.3063E-07	5.2983E-07	5.2709E-07	5.2893E-07	5.2552E-07	5.2382E-07	5.2216E-07	5.2046E-07	5.2469E-07	5.3146E-07	0.0000E+00
NO2	CVEH14_6	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0941E-07	5.0771E-07	5.1025E-07	5.0806E-07	5.0389E-07	5.0052E-07	4.9844E-07	5.0674E-07	5.0365E-07	4.9924E-07	4.9261E-07	4.8927E-07	4.9712E-07	4.9716E-07	4.9809E-07	4.9716E-07	0.0000E+00
NO2	CVEH14_6	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1552E-07	5.1650E-07	5.1747E-07	5.1396E-07	5.0983E-07	5.0879E-07	5.0681E-07	5.1070E-07	5.0778E-07	5.0487E-07	4.9844E-07	4.9639E-07	4.9122E-07	4.9323E-07	4.9018E-07	4.9615E-07	0.0000E+00
NO2	CVEH14_6	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7934E-07	4.8375E-07	4.8375E-07	4.8709E-07	4.8927E-07	4.8709E-07	4.8709E-07	4.8632E-07	4.8396E-07	4.8396E-07	4.7688E-07	4.7806E-07	4.8042E-07	4.7452E-07	4.7688E-07	4.7452E-07	0.0000E+00
NO2	CVEH14_6	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9337E-07	4.8584E-07	4.8962E-07	4.8709E-07	4.8584E-07	4.8209E-07	4.8209E-07	4.8709E-07	4.8709E-07	4.8459E-07	4.8209E-07	4.8334E-07	4.7327E-07	4.7202E-07	4.7077E-07	4.7327E-07	0.0000E+00
NO2	CVEH14_6	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7032E-07	4.6695E-07	4.6240E-07	4.6240E-07	4.6393E-07	4.6528E-07	4.6042E-07	4.6386E-07	4.5872E-07	4.6365E-07	4.6903E-07	4.5355E-07	4.4667E-07	4.3632E-07	4.4587E-07	4.4264E-07	0.0000E+00
NO2	CVEH14_6	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4493E-07	4.5011E-07	4.3900E-07	4.4629E-07	4.7153E-07	4.5181E-07	4.4629E-07	4.5698E-07	4.5719E-07	4.5556E-07	4.4080E-07	4.4493E-07	4.4667E-07	4.4323E-07	4.4323E-07	4.4493E-07	0.0000E+00
NO2	CVEH14_6	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4837E-07	4.5011E-07	4.5726E-07	4.6730E-07	4.7073E-07	4.7014E-07	4.6688E-07	4.6730E-07	4.6688E-07	4.5872E-07	4.5525E-07	4.5011E-07	4.4264E-07	4.4667E-07	4.3532E-07	4.5556E-07	0.0000E+00
NO2	CVEH14_6	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0455E-07	5.0886E-07	5.1257E-07	5.1056E-07	5.0896E-07	5.1032E-07	5.0858E-07	5.1205E-07	5.1375E-07	5.1375E-07	5.1549E-07	5.1719E-07	5.1375E-07	5.1032E-07	5.1032E-07	5.1219E-07	0.0000E+00
NO2	CVEH14_6	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0987E-07	5.0723E-07	5.0716E-07	5.0584E-07	5.0028E-07	4.9743E-07	4.9886E-07	4.9431E-07	4.8976E-07	4.8671E-07	4.8368E-07	4.8216E-07	4.8063E-07	4.7608E-07	4.7761E-07	5.1028E-07	0.0000E+00
NO2	CVEH14_6	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2893E-07	5.2438E-07	5.2136E-07	5.2327E-07	5.2226E-07	5.2021E-07	5.2021E-07	5.2243E-07	5.2132E-07	5.2351E-07	5.1799E-07	5.2462E-07	5.2573E-07	5.2132E-07	5.2330E-07	5.2618E-07	0.0000E+00
NO2	CVEH14_6	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4757E-07	5.4608E-07	5.4452E-07	5.4431E-07	5.4421E-07	5.4580E-07	5.4504E-07	5.4421E-07	5.4504E-07	5.4421E-07	5.4421E-07	5.4434E-07	5.4875E-07	5.4730E-07	5.4730E-07	5.4341E-07	0.0000E+00
NO2	CVEH14_7	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0701E-06	1.0640E-06	1.0619E-06	1.0679E-06	1.0678E-06	1.0647E-06	1.0613E-06	1.0597E-06	1.0542E-06	1.0579E-06	1.0510E-06	1.0476E-06	1.0443E-06	1.0409E-06	1.0494E-06	1.0629E-06	0.0000E+00
NO2	CVEH14_7	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0188E-06	1.0154E-06	1.0205E-06	1.0161E-06	1.0078E-06	1.0010E-06	9.9688E-07	1.0135E-06	1.0073E-06	9.9848E-07	9.8522E-07	9.7855E-07	9.9424E-07	9.9431E-07	9.9619E-07	9.9431E-07	0.0000E+00
NO2	CVEH14_7	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0310E-06	1.0330E-06	1.0349E-06	1.0279E-06	1.0197E-06	1.0176E-06	1.0136E-06	1.0214E-06	1.0156E-06	1.0097E-06	9.9688E-07	9.9279E-07	9.8244E-07	9.8647E-07	9.8036E-07	9.9230E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	CVEH14_7	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5869E-07	9.6751E-07	9.6751E-07	9.7417E-07	9.7855E-07	9.7417E-07	9.7417E-07	9.7265E-07	9.6792E-07	9.6792E-07	9.5376E-07	9.5612E-07	9.6084E-07	9.4904E-07	9.5376E-07	9.4904E-07	0.0000E+00
NO2	CVEH14_7	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.8674E-07	9.7167E-07	9.7924E-07	9.7417E-07	9.7167E-07	9.6417E-07	9.6417E-07	9.7417E-07	9.7417E-07	9.6917E-07	9.6417E-07	9.6667E-07	9.4654E-07	9.4404E-07	9.4154E-07	9.4654E-07	0.0000E+00
NO2	CVEH14_7	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4063E-07	9.3390E-07	9.2480E-07	9.2480E-07	9.2786E-07	9.3056E-07	9.2084E-07	9.2772E-07	9.1744E-07	9.2730E-07	9.3806E-07	9.0709E-07	8.9334E-07	8.7265E-07	8.9174E-07	8.8529E-07	0.0000E+00
NO2	CVEH14_7	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8987E-07	9.0022E-07	8.7799E-07	8.9258E-07	9.4306E-07	9.0362E-07	8.9258E-07	9.1397E-07	9.1438E-07	9.1112E-07	8.8161E-07	8.8987E-07	8.9334E-07	8.8647E-07	8.8647E-07	8.8987E-07	0.0000E+00
NO2	CVEH14_7	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9674E-07	9.0022E-07	9.1452E-07	9.3459E-07	9.4147E-07	9.4029E-07	9.3376E-07	9.3459E-07	9.3376E-07	9.1744E-07	9.1049E-07	9.0022E-07	8.8529E-07	8.9334E-07	8.7063E-07	9.1112E-07	0.0000E+00
NO2	CVEH14_7	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0091E-06	1.0177E-06	1.0251E-06	1.0211E-06	1.0179E-06	1.0206E-06	1.0172E-06	1.0241E-06	1.0275E-06	1.0275E-06	1.0310E-06	1.0344E-06	1.0275E-06	1.0206E-06	1.0206E-06	1.0244E-06	0.0000E+00
NO2	CVEH14_7	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0197E-06	1.0145E-06	1.0143E-06	1.0117E-06	1.0006E-06	9.9487E-07	9.9772E-07	9.8862E-07	9.7952E-07	9.7341E-07	9.6737E-07	9.6431E-07	9.6126E-07	9.5216E-07	9.5522E-07	1.0206E-06	0.0000E+00
NO2	CVEH14_7	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0579E-06	1.0488E-06	1.0427E-06	1.0465E-06	1.0445E-06	1.0404E-06	1.0404E-06	1.0449E-06	1.0426E-06	1.0470E-06	1.0360E-06	1.0492E-06	1.0515E-06	1.0426E-06	1.0466E-06	1.0524E-06	0.0000E+00
NO2	CVEH14_7	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0951E-06	1.0922E-06	1.0890E-06	1.0886E-06	1.0884E-06	1.0916E-06	1.0901E-06	1.0884E-06	1.0901E-06	1.0884E-06	1.0884E-06	1.0887E-06	1.0975E-06	1.0946E-06	1.0946E-06	1.0868E-06	0.0000E+00
NO2	CVEH14_8	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3507E-07	5.3202E-07	5.3094E-07	5.3393E-07	5.3389E-07	5.3233E-07	5.3063E-07	5.2983E-07	5.2709E-07	5.2893E-07	5.2552E-07	5.2382E-07	5.2216E-07	5.2046E-07	5.2469E-07	5.3146E-07	0.0000E+00
NO2	CVEH14_8	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0941E-07	5.0771E-07	5.1025E-07	5.0806E-07	5.0389E-07	5.0052E-07	4.9844E-07	5.0674E-07	5.0365E-07	4.9924E-07	4.9261E-07	4.8927E-07	4.9712E-07	4.9716E-07	4.9809E-07	4.9716E-07	0.0000E+00
NO2	CVEH14_8	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1552E-07	5.1650E-07	5.1747E-07	5.1396E-07	5.0983E-07	5.0879E-07	5.0681E-07	5.1070E-07	5.0778E-07	5.0487E-07	4.9844E-07	4.9639E-07	4.9122E-07	4.9323E-07	4.9018E-07	4.9615E-07	0.0000E+00
NO2	CVEH14_8	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7934E-07	4.8375E-07	4.8375E-07	4.8709E-07	4.8927E-07	4.8709E-07	4.8709E-07	4.8632E-07	4.8396E-07	4.8396E-07	4.7688E-07	4.7806E-07	4.8042E-07	4.7452E-07	4.7688E-07	4.7452E-07	0.0000E+00
NO2	CVEH14_8	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9337E-07	4.8584E-07	4.8962E-07	4.8709E-07	4.8584E-07	4.8209E-07	4.8209E-07	4.8709E-07	4.8709E-07	4.8459E-07	4.8209E-07	4.8334E-07	4.7327E-07	4.7202E-07	4.7077E-07	4.7327E-07	0.0000E+00
NO2	CVEH14_8	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7032E-07	4.6695E-07	4.6240E-07	4.6240E-07	4.6393E-07	4.6528E-07	4.6042E-07	4.6386E-07	4.5872E-07	4.6365E-07	4.6903E-07	4.5355E-07	4.4667E-07	4.3632E-07	4.4587E-07	4.4264E-07	0.0000E+00
NO2	CVEH14_8	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4493E-07	4.5011E-07	4.3900E-07	4.4629E-07	4.7153E-07	4.5181E-07	4.4629E-07	4.5698E-07	4.5719E-07	4.5556E-07	4.4080E-07	4.4493E-07	4.4667E-07	4.4323E-07	4.4323E-07	4.4493E-07	0.0000E+00
NO2	CVEH14_8	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4837E-07	4.5011E-07	4.5726E-07	4.6730E-07	4.7073E-07	4.7014E-07	4.6688E-07	4.6730E-07	4.6688E-07	4.5872E-07	4.5525E-07	4.5011E-07	4.4264E-07	4.4667E-07	4.3532E-07	4.5556E-07	0.0000E+00
NO2	CVEH14_8	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0455E-07	5.0886E-07	5.1257E-07	5.1056E-07	5.0896E-07	5.1032E-07	5.0858E-07	5.1205E-07	5.1375E-07	5.1375E-07	5.1549E-07	5.1719E-07	5.1375E-07	5.1032E-07	5.1032E-07	5.1219E-07	0.0000E+00
NO2	CVEH14_8	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0987E-07	5.0723E-07	5.0716E-07	5.0584E-07	5.0028E-07	4.9743E-07	4.9886E-07	4.9431E-07	4.8976E-07	4.8671E-07	4.8368E-07	4.8216E-07	4.8063E-07	4.7608E-07	4.7761E-07	5.1028E-07	0.0000E+00
NO2	CVEH14_8	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2893E-07	5.2438E-07	5.2136E-07	5.2327E-07	5.2226E-07	5.2021E-07	5.2021E-07	5.2243E-07	5.2132E-07	5.2351E-07	5.1799E-07	5.2462E-07	5.2573E-07	5.2132E-07	5.2330E-07	5.2618E-07	0.0000E+00
NO2	CVEH14_8	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4757E-07	5.4608E-07	5.4452E-07	5.4431E-07	5.4421E-07	5.4580E-07	5.4504E-07	5.4421E-07	5.4504E-07	5.4421E-07	5.4421E-07	5.4434E-07	5.4875E-07	5.4730E-07	5.4730E-07	5.4341E-07	0.0000E+00
NO2	CVEH15_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2746E-07	9.2216E-07	9.2030E-07	9.2547E-07	9.2541E-07	9.2271E-07	9.1976E-07	9.1837E-07	9.1362E-07	9.1681E-07	9.1091E-07	9.0796E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8298E-07	8.8003E-07	8.8443E-07	8.8064E-07	8.7341E-07	8.6758E-07	8.6397E-07	8.7835E-07	8.7299E-07	8.6535E-07	8.5385E-07	8.4808E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9358E-07	8.9526E-07	8.9695E-07	8.9087E-07	8.8371E-07	8.8190E-07	8.7847E-07	8.8521E-07	8.8016E-07	8.7510E-07	8.6397E-07	8.6041E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3086E-07	8.3851E-07	8.3851E-07	8.4428E-07	8.4808E-07	8.4428E-07	8.4428E-07	8.4296E-07	8.3887E-07	8.3887E-07	8.2659E-07	8.2864E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5518E-07	8.4212E-07	8.4868E-07	8.4428E-07	8.4212E-07	8.3562E-07	8.3562E-07	8.4428E-07	8.4428E-07	8.3995E-07	8.3562E-07	8.3778E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1522E-07	8.0938E-07	8.0149E-07	8.0149E-07	8.0414E-07	8.0649E-07	7.9806E-07	8.0402E-07	7.9511E-07	8.0366E-07	8.1299E-07	7.8615E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7122E-07	7.8019E-07	7.6093E-07	7.7357E-07	8.1732E-07	7.8314E-07	7.7357E-07	7.9210E-07	7.9247E-07	7.8964E-07	7.6406E-07	7.7122E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7718E-07	7.8019E-07	7.9259E-07	8.0998E-07	8.1594E-07	8.1491E-07	8.0926E-07	8.0998E-07	8.0926E-07	7.9511E-07	7.8909E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7456E-07	8.8202E-07	8.8846E-07	8.8497E-07	8.8220E-07	8.8455E-07	8.8154E-07	8.8756E-07	8.9051E-07	8.9051E-07	8.9352E-07	8.9647E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8377E-07	8.7919E-07	8.7907E-07	8.7678E-07	8.6716E-07	8.6222E-07	8.6469E-07	8.5680E-07	8.4892E-07	8.4362E-07	8.3839E-07	8.3574E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1681E-07	9.0892E-07	9.0369E-07	9.0700E-07	9.0525E-07	9.0170E-07	9.0170E-07	9.0555E-07	9.0363E-07	9.0742E-07	8.9785E-07	9.0934E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4913E-07	9.4654E-07	9.4383E-07	9.4347E-07	9.4329E-07	9.4606E-07	9.4473E-07	9.4329E-07	9.4473E-07	9.4329E-07	9.4329E-07	9.4353E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2746E-07	9.2216E-07	9.2030E-07	9.2547E-07	9.2541E-07	9.2271E-07	9.1976E-07	9.1837E-07	9.1362E-07	9.1681E-07	9.1091E-07	9.0796E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8298E-07	8.8003E-07	8.8443E-07	8.8064E-07	8.7341E-07	8.6758E-07	8.6397E-07	8.7835E-07	8.7299E-07	8.6535E-07	8.5385E-07	8.4808E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9358E-07	8.9526E-07	8.9695E-07	8.9087E-07	8.8371E-07	8.8190E-07	8.7847E-07	8.8521E-07	8.8016E-07	8.7510E-07	8.6397E-07	8.6041E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3086E-07	8.3851E-07	8.3851E-07	8.4428E-07	8.4808E-07	8.4428E-07	8.4428E-07	8.4296E-07	8.3887E-07	8.3887E-07	8.2659E-07	8.2864E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5518E-07	8.4212E-07	8.4868E-07	8.4428E-07	8.4212E-07	8.3562E-07	8.3562E-07	8.4428E-07	8.4428E-07	8.3995E-07	8.3562E-07	8.3778E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1522E-07	8.0938E-07	8.0149E-07	8.0149E-07	8.0414E-07	8.0649E-07	7.9806E-07	8.0402E-07	7.9511E-07	8.0366E-07	8.1299E-07	7.8615E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7122E-07	7.8019E-07	7.6093E-07	7.7357E-07	8.1732E-07	7.8314E-07	7.7357E-07	7.9210E-07	7.9247E-07	7.8964E-07	7.6406E-07	7.7122E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7718E-07	7.8019E-07	7.9259E-07	8.0998E-07	8.1594E-07	8.1491E-07	8.0926E-07	8.0998E-07	8.0926E-07	7.9511E-07	7.8909E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7456E-07	8.8202E-07	8.8846E-07	8.8497E-07	8.8220E-07	8.8455E-07	8.8154E-07	8.8756E-07	8.9051E-07	8.9051E-07	8.9352E-07	8.9647E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8377E-07	8.7919E-07	8.7907E-07	8.7678E-07	8.6716E-07	8.6222E-07	8.6469E-07	8.5680E-07	8.4892E-07	8.4362E-07	8.3839E-07	8.3574E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1681E-07	9.0892E-07	9.0369E-07	9.0700E-07	9.0525E-07	9.0170E-07	9.0170E-07	9.0555E-07	9.0363E-07	9.0742E-07	8.9785E-07	9.0934E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4913E-07	9.4654E-07	9.4383E-07	9.4347E-07	9.4329E-07	9.4606E-07	9.4473E-07	9.4329E-07	9.4473E-07	9.4329E-07	9.4329E-07	9.4353E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2746E-07	9.2216E-07	9.2030E-07	9.2547E-07	9.2541E-07	9.2271E-07	9.1976E-07	9.1837E-07	9.1362E-07	9.1681E-07	9.1091E-07	9.0796E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8298E-07	8.8003E-07	8.8443E-07	8.8064E-07	8.7341E-07	8.6758E-07	8.6397E-07	8.7835E-07	8.7299E-07	8.6535E-07	8.5385E-07	8.4808E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9358E-07	8.9526E-07	8.9695E-07	8.9087E-07	8.8371E-07	8.8190E-07	8.7847E-07	8.8521E-07	8.8016E-07	8.7510E-07	8.6397E-07	8.6041E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3086E-07	8.3851E-07	8.3851E-07	8.4428E-07	8.4808E-07	8.4428E-07	8.4428E-07	8.4296E-07	8.3887E-07	8.3887E-07	8.2659E-07	8.2864E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5518E-07	8.4212E-07	8.4868E-07	8.4428E-07	8.4212E-07	8.3562E-07	8.3562E-07	8.4428E-07	8.4428E-07	8.3995E-07	8.3562E-07	8.3778E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1522E-07	8.0938E-07	8.0149E-07	8.0149E-07	8.0414E-07	8.0649E-07	7.9806E-07	8.0402E-07	7.9511E-07	8.0366E-07	8.1299E-07	7.8615E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7122E-07	7.8019E-07	7.6093E-07	7.7357E-07	8.1732E-07	7.8314E-07	7.7357E-07	7.9210E-07	7.9247E-07	7.8964E-07	7.6406E-07	7.7122E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7718E-07	7.8019E-07	7.9259E-07	8.0998E-07	8.1594E-07	8.1491E-07	8.0926E-07	8.0998E-07	8.0926E-07	7.9511E-07	7.8909E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7456E-07	8.8202E-07	8.8846E-07	8.8497E-07	8.8220E-07	8.8455E-07	8.8154E-07	8.8756E-07	8.9051E-07	8.9051E-07	8.9352E-07	8.9647E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8377E-07	8.7919E-07	8.7907E-07	8.7678E-07	8.6716E-07	8.6222E-07	8.6469E-07	8.5680E-07	8.4892E-07	8.4362E-07	8.3839E-07	8.3574E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1681E-07	9.0892E-07	9.0369E-07	9.0700E-07	9.0525E-07	9.0170E-07	9.0170E-07	9.0555E-07	9.0363E-07	9.0742E-07	8.9785E-07	9.0934E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4913E-07	9.4654E-07	9.4383E-07	9.4347E-07	9.4329E-07	9.4606E-07	9.4473E-07	9.4329E-07	9.4473E-07	9.4329E-07	9.4329E-07	9.4353E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2746E-07	9.2216E-07	9.2030E-07	9.2547E-07	9.2541E-07	9.2271E-07	9.1976E-07	9.1837E-07	9.1362E-07	9.1681E-07	9.1091E-07	9.0796E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8298E-07	8.8003E-07	8.8443E-07	8.8064E-07	8.7341E-07	8.6758E-07	8.6397E-07	8.7835E-07	8.7299E-07	8.6535E-07	8.5385E-07	8.4808E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9358E-07	8.9526E-07	8.9695E-07	8.9087E-07	8.8371E-07	8.8190E-07	8.7847E-07	8.8521E-07	8.8016E-07	8.7510E-07	8.6397E-07	8.6041E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3086E-07	8.3851E-07	8.3851E-07	8.4428E-07	8.4808E-07	8.4428E-07	8.4428E-07	8.4296E-07	8.3887E-07	8.3887E-07	8.2659E-07	8.2864E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5518E-07	8.4212E-07	8.4868E-07	8.4428E-07	8.4212E-07	8.3562E-07	8.3562E-07	8.4428E-07	8.4428E-07	8.3995E-07	8.3562E-07	8.3778E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1522E-07	8.0938E-07	8.0149E-07	8.0149E-07	8.0414E-07	8.0649E-07	7.9806E-07	8.0402E-07	7.9511E-07	8.0366E-07	8.1299E-07	7.8615E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7122E-07	7.8019E-07	7.6093E-07	7.7357E-07	8.1732E-07	7.8314E-07	7.7357E-07	7.9210E-07	7.9247E-07	7.8964E-07	7.6406E-07	7.7122E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7718E-07	7.8019E-07	7.9259E-07	8.0998E-07	8.1594E-07	8.1491E-07	8.0926E-07	8.0998E-07	8.0926E-07	7.9511E-07	7.8909E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7456E-07	8.8202E-07	8.8846E-07	8.8497E-07	8.8220E-07	8.8455E-07	8.8154E-07	8.8756E-07	8.9051E-07	8.9051E-07	8.9352E-07	8.9647E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8377E-07	8.7919E-07	8.7907E-07	8.7678E-07	8.6716E-07	8.6222E-07	8.6469E-07	8.5680E-07	8.4892E-07	8.4362E-07	8.3839E-07	8.3574E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1681E-07	9.0892E-07	9.0369E-07	9.0700E-07	9.0525E-07	9.0170E-07	9.0170E-07	9.0555E-07	9.0363E-07	9.0742E-07	8.9785E-07	9.0934E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4913E-07	9.4654E-07	9.4383E-07	9.4347E-07	9.4329E-07	9.4606E-07	9.4473E-07	9.4329E-07	9.4473E-07	9.4329E-07	9.4329E-07	9.4353E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8549E-06	1.8443E-06	1.8406E-06	1.8509E-06	1.8508E-06	1.8454E-06	1.8395E-06	1.8367E-06	1.8272E-06	1.8336E-06	1.8218E-06	1.8159E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7660E-06	1.7601E-06	1.7689E-06	1.7613E-06	1.7468E-06	1.7352E-06	1.7279E-06	1.7567E-06	1.7460E-06	1.7307E-06	1.7077E-06	1.6962E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7872E-06	1.7905E-06	1.7939E-06	1.7817E-06	1.7674E-06	1.7638E-06	1.7569E-06	1.7704E-06	1.7603E-06	1.7502E-06	1.7279E-06	1.7208E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6617E-06	1.6770E-06	1.6770E-06	1.6886E-06	1.6962E-06	1.6886E-06	1.6886E-06	1.6859E-06	1.6777E-06	1.6777E-06	1.6532E-06	1.6573E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7104E-06	1.6842E-06	1.6974E-06	1.6886E-06	1.6842E-06	1.6712E-06	1.6712E-06	1.6886E-06	1.6886E-06	1.6799E-06	1.6712E-06	1.6756E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6304E-06	1.6188E-06	1.6030E-06	1.6030E-06	1.6083E-06	1.6130E-06	1.5961E-06	1.6080E-06	1.5902E-06	1.6073E-06	1.6260E-06	1.5723E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5424E-06	1.5604E-06	1.5219E-06	1.5471E-06	1.6346E-06	1.5663E-06	1.5471E-06	1.5842E-06	1.5849E-06	1.5793E-06	1.5281E-06	1.5424E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5544E-06	1.5604E-06	1.5852E-06	1.6200E-06	1.6319E-06	1.6298E-06	1.6185E-06	1.6200E-06	1.6185E-06	1.5902E-06	1.5782E-06	1.5604E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7491E-06	1.7640E-06	1.7769E-06	1.7699E-06	1.7644E-06	1.7691E-06	1.7631E-06	1.7751E-06	1.7810E-06	1.7810E-06	1.7870E-06	1.7929E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7675E-06	1.7584E-06	1.7581E-06	1.7536E-06	1.7343E-06	1.7244E-06	1.7294E-06	1.7136E-06	1.6978E-06	1.6872E-06	1.6768E-06	1.6715E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	CVEH15_5	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8336E-06	1.8178E-06	1.8074E-06	1.8140E-06	1.8105E-06	1.8034E-06	1.8034E-06	1.8111E-06	1.8073E-06	1.8148E-06	1.7957E-06	1.8187E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8983E-06	1.8931E-06	1.8877E-06	1.8869E-06	1.8866E-06	1.8921E-06	1.8895E-06	1.8866E-06	1.8895E-06	1.8866E-06	1.8866E-06	1.8871E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8549E-06	1.8443E-06	1.8406E-06	1.8509E-06	1.8508E-06	1.8454E-06	1.8395E-06	1.8367E-06	1.8272E-06	1.8336E-06	1.8218E-06	1.8159E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7660E-06	1.7601E-06	1.7689E-06	1.7613E-06	1.7468E-06	1.7352E-06	1.7279E-06	1.7567E-06	1.7460E-06	1.7307E-06	1.7077E-06	1.6962E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7872E-06	1.7905E-06	1.7939E-06	1.7817E-06	1.7674E-06	1.7638E-06	1.7569E-06	1.7704E-06	1.7603E-06	1.7502E-06	1.7279E-06	1.7208E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6617E-06	1.6770E-06	1.6770E-06	1.6886E-06	1.6962E-06	1.6886E-06	1.6886E-06	1.6859E-06	1.6777E-06	1.6777E-06	1.6532E-06	1.6573E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7104E-06	1.6842E-06	1.6974E-06	1.6886E-06	1.6842E-06	1.6712E-06	1.6712E-06	1.6886E-06	1.6886E-06	1.6799E-06	1.6712E-06	1.6756E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6304E-06	1.6188E-06	1.6030E-06	1.6030E-06	1.6083E-06	1.6130E-06	1.5961E-06	1.6080E-06	1.5902E-06	1.6073E-06	1.6260E-06	1.5723E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5424E-06	1.5604E-06	1.5219E-06	1.5471E-06	1.6346E-06	1.5663E-06	1.5471E-06	1.5842E-06	1.5849E-06	1.5793E-06	1.5281E-06	1.5424E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5544E-06	1.5604E-06	1.5852E-06	1.6200E-06	1.6319E-06	1.6298E-06	1.6185E-06	1.6200E-06	1.6185E-06	1.5902E-06	1.5782E-06	1.5604E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7491E-06	1.7640E-06	1.7769E-06	1.7699E-06	1.7644E-06	1.7691E-06	1.7631E-06	1.7751E-06	1.7810E-06	1.7810E-06	1.7870E-06	1.7929E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7675E-06	1.7584E-06	1.7581E-06	1.7536E-06	1.7343E-06	1.7244E-06	1.7294E-06	1.7136E-06	1.6978E-06	1.6872E-06	1.6768E-06	1.6715E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8336E-06	1.8178E-06	1.8074E-06	1.8140E-06	1.8105E-06	1.8034E-06	1.8034E-06	1.8111E-06	1.8073E-06	1.8148E-06	1.7957E-06	1.8187E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8983E-06	1.8931E-06	1.8877E-06	1.8869E-06	1.8866E-06	1.8921E-06	1.8895E-06	1.8866E-06	1.8895E-06	1.8866E-06	1.8866E-06	1.8871E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8549E-06	1.8443E-06	1.8406E-06	1.8509E-06	1.8508E-06	1.8454E-06	1.8395E-06	1.8367E-06	1.8272E-06	1.8336E-06	1.8218E-06	1.8159E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7660E-06	1.7601E-06	1.7689E-06	1.7613E-06	1.7468E-06	1.7352E-06	1.7279E-06	1.7567E-06	1.7460E-06	1.7307E-06	1.7077E-06	1.6962E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7872E-06	1.7905E-06	1.7939E-06	1.7817E-06	1.7674E-06	1.7638E-06	1.7569E-06	1.7704E-06	1.7603E-06	1.7502E-06	1.7279E-06	1.7208E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6617E-06	1.6770E-06	1.6770E-06	1.6886E-06	1.6962E-06	1.6886E-06	1.6886E-06	1.6859E-06	1.6777E-06	1.6777E-06	1.6532E-06	1.6573E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7104E-06	1.6842E-06	1.6974E-06	1.6886E-06	1.6842E-06	1.6712E-06	1.6712E-06	1.6886E-06	1.6886E-06	1.6799E-06	1.6712E-06	1.6756E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6304E-06	1.6188E-06	1.6030E-06	1.6030E-06	1.6083E-06	1.6130E-06	1.5961E-06	1.6080E-06	1.5902E-06	1.6073E-06	1.6260E-06	1.5723E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5424E-06	1.5604E-06	1.5219E-06	1.5471E-06	1.6346E-06	1.5663E-06	1.5471E-06	1.5842E-06	1.5849E-06	1.5793E-06	1.5281E-06	1.5424E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5544E-06	1.5604E-06	1.5852E-06	1.6200E-06	1.6319E-06	1.6298E-06	1.6185E-06	1.6200E-06	1.6185E-06	1.5902E-06	1.5782E-06	1.5604E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7491E-06	1.7640E-06	1.7769E-06	1.7699E-06	1.7644E-06	1.7691E-06	1.7631E-06	1.7751E-06	1.7810E-06	1.7810E-06	1.7870E-06	1.7929E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7675E-06	1.7584E-06	1.7581E-06	1.7536E-06	1.7343E-06	1.7244E-06	1.7294E-06	1.7136E-06	1.6978E-06	1.6872E-06	1.6768E-06	1.6715E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8336E-06	1.8178E-06	1.8074E-06	1.8140E-06	1.8105E-06	1.8034E-06	1.8034E-06	1.8111E-06	1.8073E-06	1.8148E-06	1.7957E-06	1.8187E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8983E-06	1.8931E-06	1.8877E-06	1.8869E-06	1.8866E-06	1.8921E-06	1.8895E-06	1.8866E-06	1.8895E-06	1.8866E-06	1.8866E-06	1.8871E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8549E-06	1.8443E-06	1.8406E-06	1.8509E-06	1.8508E-06	1.8454E-06	1.8395E-06	1.8367E-06	1.8272E-06	1.8336E-06	1.8218E-06	1.8159E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7660E-06	1.7601E-06	1.7689E-06	1.7613E-06	1.7468E-06	1.7352E-06	1.7279E-06	1.7567E-06	1.7460E-06	1.7307E-06	1.7077E-06	1.6962E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7872E-06	1.7905E-06	1.7939E-06	1.7817E-06	1.7674E-06	1.7638E-06	1.7569E-06	1.7704E-06	1.7603E-06	1.7502E-06	1.7279E-06	1.7208E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6617E-06	1.6770E-06	1.6770E-06	1.6886E-06	1.6962E-06	1.6886E-06	1.6886E-06	1.6859E-06	1.6777E-06	1.6777E-06	1.6532E-06	1.6573E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7104E-06	1.6842E-06	1.6974E-06	1.6886E-06	1.6842E-06	1.6712E-06	1.6712E-06	1.6886E-06	1.6886E-06	1.6799E-06	1.6712E-06	1.6756E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6304E-06	1.6188E-06	1.6030E-06	1.6030E-06	1.6083E-06	1.6130E-06	1.5961E-06	1.6080E-06	1.5902E-06	1.6073E-06	1.6260E-06	1.5723E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5424E-06	1.5604E-06	1.5219E-06	1.5471E-06	1.6346E-06	1.5663E-06	1.5471E-06	1.5842E-06	1.5849E-06	1.5793E-06	1.5281E-06	1.5424E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5544E-06	1.5604E-06	1.5852E-06	1.6200E-06	1.6319E-06	1.6298E-06	1.6185E-06	1.6200E-06	1.6185E-06	1.5902E-06	1.5782E-06	1.5604E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7491E-06	1.7640E-06	1.7769E-06	1.7699E-06	1.7644E-06	1.7691E-06	1.7631E-06	1.7751E-06	1.7810E-06	1.7810E-06	1.7870E-06	1.7929E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7675E-06	1.7584E-06	1.7581E-06	1.7536E-06	1.7343E-06	1.7244E-06	1.7294E-06	1.7136E-06	1.6978E-06	1.6872E-06	1.6768E-06	1.6715E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8336E-06	1.8178E-06	1.8074E-06	1.8140E-06	1.8105E-06	1.8034E-06	1.8034E-06	1.8111E-06	1.8073E-06	1.8148E-06	1.7957E-06	1.8187E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8983E-06	1.8931E-06	1.8877E-06	1.8869E-06	1.8866E-06	1.8921E-06	1.8895E-06	1.8866E-06	1.8895E-06	1.8866E-06	1.8866E-06	1.8871E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2746E-07	9.2216E-07	9.2030E-07	9.2547E-07	9.2541E-07	9.2271E-07	9.1976E-07	9.1837E-07	9.1362E-07	9.1681E-07	9.1091E-07	9.0796E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8298E-07	8.8003E-07	8.8443E-07	8.8064E-07	8.7341E-07	8.6758E-07	8.6397E-07	8.7835E-07	8.7299E-07	8.6535E-07	8.5385E-07	8.4808E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9358E-07	8.9526E-07	8.9695E-07	8.9087E-07	8.8371E-07	8.8190E-07	8.7847E-07	8.8521E-07	8.8016E-07	8.7510E-07	8.6397E-07	8.6041E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3086E-07	8.3851E-07	8.3851E-07	8.4428E-07	8.4808E-07	8.4428E-07	8.4428E-07	8.4296E-07	8.3887E-07	8.3887E-07	8.2659E-07	8.2864E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5518E-07	8.4212E-07	8.4868E-07	8.4428E-07	8.4212E-07	8.3562E-07	8.3562E-07	8.4428E-07	8.4428E-07	8.3995E-07	8.3562E-07	8.3778E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1522E-07	8.0938E-07	8.0149E-07	8.0149E-07	8.0414E-07	8.0649E-07	7.9806E-07	8.0402E-07	7.9511E-07	8.0366E-07	8.1299E-07	7.8615E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7122E-07	7.8019E-07	7.6093E-07	7.7357E-07	8.1732E-07	7.8314E-07	7.7357E-07	7.9210E-07	7.9247E-07	7.8964E-07	7.6406E-07	7.7122E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7718E-07	7.8019E-07	7.9259E-07	8.0998E-07	8.1594E-07	8.1491E-07	8.0926E-07	8.0998E-07	8.0926E-07	7.9511E-07	7.8909E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7456E-07	8.8202E-07	8.8846E-07	8.8497E-07	8.8220E-07	8.8455E-07	8.8154E-07	8.8756E-07	8.9051E-07	8.9051E-07	8.9352E-07	8.9647E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8377E-07	8.7919E-07	8.7907E-07	8.7678E-07	8.6716E-07	8.6222E-07	8.6469E-07	8.5680E-07	8.4892E-07	8.4362E-07	8.3839E-07	8.3574E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1681E-07	9.0892E-07	9.0369E-07	9.0700E-07	9.0525E-07	9.0170E-07	9.0170E-07	9.0555E-07	9.0363E-07	9.0742E-07	8.9785E-07	9.0934E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4913E-07	9.4654E-07	9.4383E-07	9.4347E-07	9.4329E-07	9.4606E-07	9.4473E-07	9.4329E-07	9.4473E-07	9.4329E-07	9.4329E-07	9.4353E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH16_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1403E-07	2.1281E-07	2.1238E-07	2.1357E-07	2.1356E-07	2.1293E-07	2.1225E-07	2.1193E-07	2.1083E-07	2.1157E-07	2.1021E-07	2.0953E-07	2.0886E-07	2.0818E-07	2.0988E-07	2.1258E-07	0.0000E+00
NO2	CVEH16_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0377E-07	2.0308E-07	2.0410E-07	2.0322E-07	2.0156E-07	2.0021E-07	1.9938E-07	2.0270E-07	2.0146E-07	1.9970E-07	1.9704E-07	1.9571E-07	1.9885E-07	1.9886E-07	1.9924E-07	1.9886E-07	0.0000E+00
NO2	CVEH16_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0621E-07	2.0660E-07	2.0699E-07	2.0558E-07	2.0393E-07	2.0352E-07	2.0272E-07	2.0428E-07	2.0311E-07	2.0195E-07	1.9938E-07	1.9856E-07	1.9649E-07	1.9729E-07	1.9607E-07	1.9846E-07	0.0000E+00
NO2	CVEH16_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9174E-07	1.9350E-07	1.9350E-07	1.9483E-07	1.9571E-07	1.9483E-07	1.9483E-07	1.9453E-07	1.9358E-07	1.9358E-07	1.9075E-07	1.9122E-07	1.9217E-07	1.8981E-07	1.9075E-07	1.8981E-07	0.0000E+00
NO2	CVEH16_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9735E-07	1.9433E-07	1.9585E-07	1.9483E-07	1.9433E-07	1.9283E-07	1.9283E-07	1.9483E-07	1.9483E-07	1.9383E-07	1.9283E-07	1.9333E-07	1.8931E-07	1.8881E-07	1.8831E-07	1.8931E-07	0.0000E+00
NO2	CVEH16_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8813E-07	1.8678E-07	1.8496E-07	1.8496E-07	1.8557E-07	1.8611E-07	1.8417E-07	1.8554E-07	1.8349E-07	1.8546E-07	1.8761E-07	1.8142E-07	1.7867E-07	1.7453E-07	1.7835E-07	1.7706E-07	0.0000E+00
NO2	CVEH16_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7797E-07	1.8004E-07	1.7560E-07	1.7852E-07	1.8861E-07	1.8072E-07	1.7852E-07	1.8279E-07	1.8288E-07	1.8222E-07	1.7632E-07	1.7797E-07	1.7867E-07	1.7729E-07	1.7729E-07	1.7797E-07	0.0000E+00
NO2	CVEH16_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7935E-07	1.8004E-07	1.8290E-07	1.8692E-07	1.8829E-07	1.8806E-07	1.8675E-07	1.8692E-07	1.8675E-07	1.8349E-07	1.8210E-07	1.8004E-07	1.7706E-07	1.7867E-07	1.7413E-07	1.8222E-07	0.0000E+00
NO2	CVEH16_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0182E-07	2.0354E-07	2.0503E-07	2.0422E-07	2.0358E-07	2.0413E-07	2.0343E-07	2.0482E-07	2.0550E-07	2.0550E-07	2.0620E-07	2.0688E-07	2.0550E-07	2.0413E-07	2.0413E-07	2.0488E-07	0.0000E+00
NO2	CVEH16_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0395E-07	2.0289E-07	2.0286E-07	2.0233E-07	2.0011E-07	1.9897E-07	1.9954E-07	1.9772E-07	1.9590E-07	1.9468E-07	1.9347E-07	1.9286E-07	1.9225E-07	1.9043E-07	1.9104E-07	2.0411E-07	0.0000E+00
NO2	CVEH16_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1157E-07	2.0975E-07	2.0854E-07	2.0931E-07	2.0890E-07	2.0808E-07	2.0808E-07	2.0897E-07	2.0853E-07	2.0940E-07	2.0720E-07	2.0985E-07	2.1029E-07	2.0853E-07	2.0932E-07	2.1047E-07	0.0000E+00
NO2	CVEH16_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1903E-07	2.1843E-07	2.1781E-07	2.1772E-07	2.1768E-07	2.1832E-07	2.1802E-07	2.1768E-07	2.1802E-07	2.1768E-07	2.1768E-07	2.1774E-07	2.1950E-07	2.1892E-07	2.1892E-07	2.1736E-07	0.0000E+00
NO2	CVEH16_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1403E-07	2.1281E-07	2.1238E-07	2.1357E-07	2.1356E-07	2.1293E-07	2.1225E-07	2.1193E-07	2.1083E-07	2.1157E-07	2.1021E-07	2.0953E-07	2.0886E-07	2.0818E-07	2.0988E-07	2.1258E-07	0.0000E+00
NO2	CVEH16_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0377E-07	2.0308E-07	2.0410E-07	2.0322E-07	2.0156E-07	2.0021E-07	1.9938E-07	2.0270E-07	2.0146E-07	1.9970E-07	1.9704E-07	1.9571E-07	1.9885E-07	1.9886E-07	1.9924E-07	1.9886E-07	0.0000E+00
NO2	CVEH16_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0621E-07	2.0660E-07	2.0699E-07	2.0558E-07	2.0393E-07	2.0352E-07	2.0272E-07	2.0428E-07	2.0311E-07	2.0195E-07	1.9938E-07	1.9856E-07	1.9649E-07	1.9729E-07	1.9607E-07	1.9846E-07	0.0000E+00
NO2	CVEH16_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9174E-07	1.9350E-07	1.9350E-07	1.9483E-07	1.9571E-07	1.9483E-07	1.9483E-07	1.9453E-07	1.9358E-07	1.9358E-07	1.9075E-07	1.9122E-07	1.9217E-07	1.8981E-07	1.9075E-07	1.8981E-07	0.0000E+00
NO2	CVEH16_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9735E-07	1.9433E-07	1.9585E-07	1.9483E-07	1.9433E-07	1.9283E-07	1.9283E-07	1.9483E-07	1.9483E-07	1.9383E-07	1.9283E-07	1.9333E-07	1.8931E-07	1.8881E-07	1.8831E-07	1.8931E-07	0.0000E+00
NO2	CVEH16_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8813E-07	1.8678E-07	1.8496E-07	1.8496E-07	1.8557E-07	1.8611E-07	1.8417E-07	1.8554E-07	1.8349E-07	1.8546E-07	1.8761E-07	1.8142E-07	1.7867E-07	1.7453E-07	1.7835E-07	1.7706E-07	0.0000E+00
NO2	CVEH16_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7797E-07	1.8004E-07	1.7560E-07	1.7852E-07	1.8861E-07	1.8072E-07	1.7852E-07	1.8279E-07	1.8288E-07	1.8222E-07	1.7632E-07	1.7797E-07	1.7867E-07	1.7729E-07	1.7729E-07	1.7797E-07	0.0000E+00
NO2	CVEH16_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7935E-07	1.8004E-07	1.8290E-07	1.8692E-07	1.8829E-07	1.8806E-07	1.8675E-07	1.8692E-07	1.8675E-07	1.8349E-07	1.8210E-07	1.8004E-07	1.7706E-07	1.7867E-07	1.7413E-07	1.8222E-07	0.0000E+00
NO2	CVEH16_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0182E-07	2.0354E-07	2.0503E-07	2.0422E-07	2.0358E-07	2.0413E-07	2.0343E-07	2.0482E-07	2.0550E-07	2.0550E-07	2.0620E-07	2.0688E-07	2.0550E-07	2.0413E-07	2.0413E-07	2.0488E-07	0.0000E+00
NO2	CVEH16_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0395E-07	2.0289E-07	2.0286E-07	2.0233E-07	2.0011E-07	1.9897E-07	1.9954E-07	1.9772E-07	1.9590E-07	1.9468E-07	1.9347E-07	1.9286E-07	1.9225E-07	1.9043E-07	1.9104E-07	2.0411E-07	0.0000E+00
NO2	CVEH16_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1157E-07	2.0975E-07	2.0854E-07	2.0931E-07	2.0890E-07	2.0808E-07	2.0808E-07	2.0897E-07	2.0853E-07	2.0940E-07	2.0720E-07	2.0985E-07	2.1029E-07	2.0853E-07	2.0932E-07	2.1047E-07	0.0000E+00
NO2	CVEH16_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1903E-07	2.1843E-07	2.1781E-07	2.1772E-07	2.1768E-07	2.1832E-07	2.1802E-07	2.1768E-07	2.1802E-07	2.1768E-07	2.1768E-07	2.1774E-07	2.1950E-07	2.1892E-07	2.1892E-07	2.1736E-07	0.0000E+00
NO2	R1a_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7169E-06	1.7164E-06	1.7303E-06	1.7343E-06	1.7330E-06	1.7393E-06	1.7186E-06	1.7052E-06	1.7077E-06	1.6920E-06	1.6824E-06	1.6761E-06	1.6730E-06	1.6958E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6351E-06	1.6477E-06	1.6376E-06	1.6163E-06	1.6278E-06	1.6356E-06	1.6173E-06	1.6356E-06	1.6163E-06	1.5721E-06	1.5556E-06	1.5970E-06	1.5836E-06	1.5836E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6704E-06	1.6740E-06	1.6664E-06	1.6510E-06	1.6471E-06	1.6451E-06	1.6488E-06	1.6379E-06	1.6272E-06	1.6008E-06	1.5982E-06	1.5802E-06	1.5766E-06	1.5766E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5515E-06	1.5639E-06	1.5845E-06	1.5968E-06	1.5926E-06	1.5758E-06	1.5714E-06	1.5626E-06	1.5582E-06	1.5276E-06	1.5188E-06	1.5276E-06	1.5100E-06	1.5100E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5580E-06	1.5862E-06	1.5721E-06	1.5674E-06	1.5492E-06	1.5674E-06	1.5626E-06	1.5674E-06	1.5487E-06	1.5346E-06	1.5299E-06	1.4972E-06	1.4877E-06	1.4924E-06	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	R1a_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4982E-06	1.5096E-06	1.4925E-06	1.5002E-06	1.5168E-06	1.5099E-06	1.5104E-06	1.4554E-06	1.5002E-06	1.4976E-06	1.4336E-06	1.4015E-06	1.3977E-06	1.3917E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4206E-06	1.4336E-06	1.4655E-06	1.5322E-06	1.4655E-06	1.4486E-06	1.4655E-06	1.4761E-06	1.4519E-06	1.4010E-06	1.4078E-06	1.4078E-06	1.3950E-06	1.3887E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4464E-06	1.4758E-06	1.5168E-06	1.5167E-06	1.5360E-06	1.5423E-06	1.5425E-06	1.5062E-06	1.4655E-06	1.4464E-06	1.4206E-06	1.3941E-06	1.4078E-06	1.3950E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6521E-06	1.6508E-06	1.6629E-06	1.6514E-06	1.6706E-06	1.6642E-06	1.6666E-06	1.6770E-06	1.6706E-06	1.6770E-06	1.6834E-06	1.6642E-06	1.6749E-06	1.6629E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6376E-06	1.6389E-06	1.6256E-06	1.6256E-06	1.6097E-06	1.6001E-06	1.6001E-06	1.5775E-06	1.5718E-06	1.5831E-06	1.5617E-06	1.5458E-06	1.5299E-06	1.5299E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6951E-06	1.6885E-06	1.6818E-06	1.6873E-06	1.6915E-06	1.6915E-06	1.6956E-06	1.6873E-06	1.6915E-06	1.6741E-06	1.7049E-06	1.7049E-06	1.6934E-06	1.6895E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7711E-06	1.7687E-06	1.7689E-06	1.7697E-06	1.7756E-06	1.7741E-06	1.7710E-06	1.7710E-06	1.7647E-06	1.7647E-06	1.7626E-06	1.7800E-06	1.7718E-06	1.7718E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7169E-06	1.7193E-06	1.7303E-06	1.7343E-06	1.7330E-06	1.7362E-06	1.7119E-06	1.7052E-06	1.7077E-06	1.6920E-06	1.6824E-06	1.6761E-06	1.6730E-06	1.6856E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6351E-06	1.6477E-06	1.6410E-06	1.6307E-06	1.6278E-06	1.6356E-06	1.6173E-06	1.6215E-06	1.5968E-06	1.5721E-06	1.5556E-06	1.5802E-06	1.5657E-06	1.5836E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6704E-06	1.6740E-06	1.6664E-06	1.6510E-06	1.6471E-06	1.6451E-06	1.6451E-06	1.6379E-06	1.6236E-06	1.5932E-06	1.5815E-06	1.5802E-06	1.5766E-06	1.5766E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5474E-06	1.5556E-06	1.5762E-06	1.5926E-06	1.5670E-06	1.5670E-06	1.5670E-06	1.5538E-06	1.5494E-06	1.5232E-06	1.5144E-06	1.5232E-06	1.5012E-06	1.5056E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5533E-06	1.5814E-06	1.5721E-06	1.5492E-06	1.5441E-06	1.5674E-06	1.5626E-06	1.5626E-06	1.5487E-06	1.5346E-06	1.5299E-06	1.4972E-06	1.4924E-06	1.4924E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4982E-06	1.5096E-06	1.4868E-06	1.4881E-06	1.5040E-06	1.5168E-06	1.4976E-06	1.4720E-06	1.4821E-06	1.4976E-06	1.4271E-06	1.3950E-06	1.3977E-06	1.3917E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4206E-06	1.4206E-06	1.4527E-06	1.5096E-06	1.4399E-06	1.4281E-06	1.4527E-06	1.4700E-06	1.4519E-06	1.4010E-06	1.4015E-06	1.4078E-06	1.3950E-06	1.3887E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4464E-06	1.4690E-06	1.5168E-06	1.5099E-06	1.5168E-06	1.5242E-06	1.5168E-06	1.5002E-06	1.4655E-06	1.4464E-06	1.4206E-06	1.3941E-06	1.4078E-06	1.3668E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6398E-06	1.6508E-06	1.6629E-06	1.6578E-06	1.6706E-06	1.6642E-06	1.6666E-06	1.6770E-06	1.6770E-06	1.6706E-06	1.6834E-06	1.6642E-06	1.6642E-06	1.6629E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6376E-06	1.6389E-06	1.6256E-06	1.6203E-06	1.6043E-06	1.5889E-06	1.5889E-06	1.5718E-06	1.5606E-06	1.5725E-06	1.5564E-06	1.5405E-06	1.5299E-06	1.5299E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6916E-06	1.6849E-06	1.6818E-06	1.6873E-06	1.6915E-06	1.6915E-06	1.6956E-06	1.6873E-06	1.6873E-06	1.6741E-06	1.7049E-06	1.6956E-06	1.6971E-06	1.6895E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7687E-06	1.7635E-06	1.7638E-06	1.7667E-06	1.7727E-06	1.7741E-06	1.7710E-06	1.7678E-06	1.7647E-06	1.7647E-06	1.7626E-06	1.7800E-06	1.7718E-06	1.7745E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7169E-06	1.7164E-06	1.7303E-06	1.7343E-06	1.7330E-06	1.7393E-06	1.7186E-06	1.7052E-06	1.7077E-06	1.6920E-06	1.6824E-06	1.6761E-06	1.6730E-06	1.6958E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6351E-06	1.6477E-06	1.6376E-06	1.6163E-06	1.6278E-06	1.6356E-06	1.6173E-06	1.6356E-06	1.6163E-06	1.5721E-06	1.5556E-06	1.5970E-06	1.5836E-06	1.5836E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6704E-06	1.6740E-06	1.6664E-06	1.6510E-06	1.6471E-06	1.6451E-06	1.6488E-06	1.6379E-06	1.6272E-06	1.6008E-06	1.5982E-06	1.5802E-06	1.5766E-06	1.5766E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5515E-06	1.5639E-06	1.5845E-06	1.5968E-06	1.5926E-06	1.5758E-06	1.5714E-06	1.5626E-06	1.5582E-06	1.5276E-06	1.5188E-06	1.5276E-06	1.5100E-06	1.5100E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5580E-06	1.5862E-06	1.5721E-06	1.5674E-06	1.5492E-06	1.5674E-06	1.5626E-06	1.5674E-06	1.5487E-06	1.5346E-06	1.5299E-06	1.4972E-06	1.4877E-06	1.4924E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4982E-06	1.5096E-06	1.4925E-06	1.5002E-06	1.5168E-06	1.5099E-06	1.5104E-06	1.4554E-06	1.5002E-06	1.4976E-06	1.4336E-06	1.4015E-06	1.3977E-06	1.3917E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4206E-06	1.4336E-06	1.4655E-06	1.5322E-06	1.4655E-06	1.4486E-06	1.4655E-06	1.4761E-06	1.4519E-06	1.4010E-06	1.4078E-06	1.4078E-06	1.3950E-06	1.3887E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4464E-06	1.4758E-06	1.5168E-06	1.5167E-06	1.5360E-06	1.5423E-06	1.5425E-06	1.5062E-06	1.4655E-06	1.4464E-06	1.4206E-06	1.3941E-06	1.4078E-06	1.3950E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6521E-06	1.6508E-06	1.6629E-06	1.6514E-06	1.6706E-06	1.6642E-06	1.6666E-06	1.6770E-06	1.6706E-06	1.6770E-06	1.6834E-06	1.6642E-06	1.6749E-06	1.6629E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6376E-06	1.6389E-06	1.6256E-06	1.6256E-06	1.6097E-06	1.6001E-06	1.6001E-06	1.5775E-06	1.5718E-06	1.5831E-06	1.5617E-06	1.5458E-06	1.5299E-06	1.5299E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6951E-06	1.6885E-06	1.6818E-06	1.6873E-06	1.6915E-06	1.6915E-06	1.6956E-06	1.6873E-06	1.6915E-06	1.6741E-06	1.7049E-06	1.7049E-06	1.6934E-06	1.6895E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7711E-06	1.7687E-06	1.7689E-06	1.7697E-06	1.7756E-06	1.7741E-06	1.7710E-06	1.7710E-06	1.7647E-06	1.7647E-06	1.7626E-06	1.7800E-06	1.7718E-06	1.7718E-06	0.0000E+00	0.0000E+00
NO2	R2a_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4559E-06	8.1098E-06	9.2631E-06	7.4272E-06	6.1347E-06	7.0530E-06	7.7526E-06	7.0337E-06	6.1432E-06	3.9608E-06	9.8459E-07	2.3982E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2901E-06	7.7829E-06	8.7641E-06	6.9188E-06	5.7603E-06	6.6298E-06	7.2930E-06	6.7448E-06	5.8122E-06	3.6785E-06	9.0994E-07	2.2845E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3615E-06	7.9075E-06	8.9185E-06	7.0679E-06	5.8287E-06	6.6691E-06	7.4357E-06	6.7548E-06	5.8517E-06	3.7462E-06	9.3505E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1209E-06	7.3845E-06	8.4778E-06	6.8349E-06	5.6351E-06	6.3863E-06	7.0847E-06	6.4423E-06	5.6022E-06	3.5738E-06	8.8824E-07	2.1844E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1339E-06	7.4895E-06	8.4107E-06	6.7079E-06	5.4800E-06	6.3515E-06	7.0450E-06	6.4617E-06	5.5675E-06	3.5902E-06	8.9480E-07	2.1406E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0129E-06	7.1262E-06	7.9828E-06	6.4187E-06	5.3648E-06	6.1171E-06	6.8078E-06	5.9975E-06	5.3921E-06	3.5030E-06	8.3808E-07	2.0030E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8562E-06	6.7651E-06	7.8378E-06	6.5564E-06	5.1827E-06	5.8675E-06	6.6045E-06	6.0831E-06	5.2178E-06	3.2757E-06	8.2297E-07	2.0121E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9080E-06	6.9660E-06	8.1131E-06	6.4900E-06	5.4333E-06	6.2494E-06	6.9529E-06	6.2081E-06	5.2670E-06	3.3825E-06	8.3056E-07	1.9924E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3241E-06	7.7961E-06	8.8985E-06	7.0688E-06	5.9116E-06	6.7457E-06	7.5150E-06	6.9157E-06	6.0077E-06	3.9249E-06	9.8498E-07	2.3807E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2948E-06	7.7403E-06	8.6981E-06	6.9580E-06	5.6951E-06	6.4848E-06	7.2143E-06	6.5033E-06	5.6510E-06	3.7039E-06	9.1347E-07	2.2105E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4113E-06	7.9762E-06	9.0011E-06	7.2243E-06	5.9862E-06	6.8571E-06	7.6471E-06	6.9591E-06	6.0836E-06	3.9185E-06	9.9774E-07	2.4394E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5657E-06	8.3579E-06	9.4716E-06	7.5797E-06	6.2867E-06	7.1947E-06	7.9899E-06	7.3065E-06	6.3489E-06	4.1318E-06	1.0317E-06	2.5478E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4559E-06	8.1229E-06	9.2631E-06	7.4272E-06	6.1347E-06	7.0401E-06	7.7221E-06	7.0337E-06	6.1432E-06	3.9608E-06	9.8459E-07	2.3982E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2901E-06	7.7829E-06	8.7822E-06	6.9811E-06	5.7603E-06	6.6298E-06	7.2930E-06	6.6863E-06	5.7417E-06	3.6785E-06	9.0994E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3615E-06	7.9075E-06	8.9185E-06	7.0679E-06	5.8287E-06	6.6691E-06	7.4194E-06	6.7548E-06	5.8385E-06	3.7280E-06	9.2523E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1126E-06	7.3452E-06	8.4336E-06	6.8171E-06	5.5440E-06	6.3505E-06	7.0650E-06	6.4060E-06	5.5707E-06	3.5634E-06	8.8568E-07	2.1781E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1244E-06	7.4674E-06	8.4107E-06	6.6294E-06	5.4622E-06	6.3515E-06	7.0450E-06	6.4424E-06	5.5675E-06	3.5902E-06	8.9480E-07	2.1406E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0129E-06	7.1262E-06	7.9525E-06	6.3668E-06	5.3193E-06	6.1452E-06	6.7496E-06	6.0659E-06	5.3266E-06	3.5030E-06	8.3429E-07	1.9937E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8562E-06	6.7044E-06	7.7684E-06	6.4592E-06	5.0914E-06	5.7843E-06	6.5461E-06	6.0583E-06	5.2178E-06	3.2757E-06	8.1926E-07	2.0121E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9080E-06	6.9336E-06	8.1131E-06	6.4604E-06	5.3648E-06	6.1757E-06	6.8365E-06	6.1830E-06	5.2670E-06	3.3825E-06	8.3056E-07	1.9924E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2991E-06	7.7961E-06	8.8985E-06	7.0966E-06	5.9116E-06	6.7457E-06	7.5150E-06	6.9157E-06	6.0310E-06	3.9098E-06	9.8498E-07	2.3807E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2948E-06	7.7403E-06	8.6981E-06	6.9351E-06	5.6761E-06	6.4385E-06	7.1629E-06	6.4800E-06	5.6100E-06	3.6790E-06	9.1033E-07	2.2029E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4045E-06	7.9589E-06	9.0011E-06	7.2243E-06	5.9862E-06	6.8571E-06	7.6471E-06	6.9591E-06	6.0688E-06	3.9185E-06	9.9774E-07	2.4259E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5608E-06	8.3327E-06	9.4434E-06	7.5670E-06	6.2760E-06	7.1947E-06	7.9899E-06	7.2933E-06	6.3489E-06	4.1318E-06	1.0317E-06	2.5478E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4559E-06	8.1229E-06	9.2631E-06	7.4272E-06	6.1347E-06	7.0401E-06	7.7221E-06	7.0337E-06	6.1432E-06	3.9608E-06	9.8459E-07	2.3982E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2901E-06	7.7829E-06	8.7822E-06	6.9811E-06	5.7603E-06	6.6298E-06	7.2930E-06	6.6863E-06	5.7417E-06	3.6785E-06	9.0994E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3615E-06	7.9075E-06	8.9185E-06	7.0679E-06	5.8287E-06	6.6691E-06	7.4194E-06	6.7548E-06	5.8385E-06	3.7280E-06	9.2523E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1126E-06	7.3452E-06	8.4336E-06	6.8171E-06	5.5440E-06	6.3505E-06	7.0650E-06	6.4060E-06	5.5707E-06	3.5634E-06	8.8568E-07	2.1781E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1244E-06	7.4674E-06	8.4107E-06	6.6294E-06	5.4622E-06	6.3515E-06	7.0450E-06	6.4424E-06	5.5675E-06	3.5902E-06	8.9480E-07	2.1406E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0129E-06	7.1262E-06	7.9525E-06	6.3668E-06	5.3193E-06	6.1452E-06	6.7496E-06	6.0659E-06	5.3266E-06	3.5030E-06	8.3429E-07	1.9937E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8562E-06	6.7044E-06	7.7684E-06	6.4592E-06	5.0914E-06	5.7843E-06	6.5461E-06	6.0583E-06	5.2178E-06	3.2757E-06	8.1926E-07	2.0121E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9080E-06	6.9336E-06	8.1131E-06	6.4604E-06	5.3648E-06	6.1757E-06	6.8365E-06	6.1830E-06	5.2670E-06	3.3825E-06	8.3056E-07	1.9924E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2991E-06	7.7961E-06	8.8985E-06	7.0966E-06	5.9116E-06	6.7457E-06	7.5150E-06	6.9157E-06	6.0310E-06	3.9098E-06	9.8498E-07	2.3807E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2948E-06	7.7403E-06	8.6981E-06	6.9351E-06	5.6761E-06	6.4385E-06	7.1629E-06	6.4800E-06	5.6100E-06	3.6790E-06	9.1033E-07	2.2029E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4045E-06	7.9589E-06	9.0011E-06	7.2243E-06	5.9862E-06	6.8571E-06	7.6471E-06	6.9591E-06	6.0688E-06	3.9185E-06	9.9774E-07	2.4259E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5608E-06	8.3327E-06	9.4434E-06	7.5670E-06	6.2760E-06	7.1947E-06	7.9899E-06	7.2933E-06	6.3489E-06	4.1318E-06	1.0317E-06	2.5478E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4559E-06	8.1229E-06	9.2631E-06	7.4272E-06	6.1347E-06	7.0401E-06	7.7221E-06	7.0337E-06	6.1432E-06	3.9608E-06	9.8459E-07	2.3982E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2901E-06	7.7829E-06	8.7822E-06	6.9811E-06	5.7603E-06	6.6298E-06	7.2930E-06	6.6863E-06	5.7417E-06	3.6785E-06	9.0994E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3615E-06	7.9075E-06	8.9185E-06	7.0679E-06	5.8287E-06	6.6691E-06	7.4194E-06	6.7548E-06	5.8385E-06	3.7280E-06	9.2523E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1126E-06	7.3452E-06	8.4336E-06	6.8171E-06	5.5440E-06	6.3505E-06	7.0650E-06	6.4060E-06	5.5707E-06	3.5634E-06	8.8568E-07	2.1781E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1244E-06	7.4674E-06	8.4107E-06	6.6294E-06	5.4622E-06	6.3515E-06	7.0450E-06	6.4424E-06	5.5675E-06	3.5902E-06	8.9480E-07	2.1406E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0129E-06	7.1262E-06	7.9525E-06	6.3668E-06	5.3193E-06	6.1452E-06	6.7496E-06	6.0659E-06	5.3266E-06	3.5030E-06	8.3429E-07	1.9937E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8562E-06	6.7044E-06	7.7684E-06	6.4592E-06	5.0914E-06	5.7843E-06	6.5461E-06	6.0583E-06	5.2178E-06	3.2757E-06	8.1926E-07	2.0121E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9080E-06	6.9336E-06	8.1131E-06	6.4604E-06	5.3648E-06	6.1757E-06	6.8365E-06	6.1830E-06	5.2670E-06	3.3825E-06	8.3056E-07	1.9924E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2991E-06	7.7961E-06	8.8985E-06	7.0966E-06	5.9116E-06	6.7457E-06	7.5150E-06	6.9157E-06	6.0310E-06	3.9098E-06	9.8498E-07	2.3807E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2948E-06	7.7403E-06	8.6981E-06	6.9351E-06	5.6761E-06	6.4385E-06	7.1629E-06	6.4800E-06	5.6100E-06	3.6790E-06	9.1033E-07	2.2029E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4045E-06	7.9589E-06	9.0011E-06	7.2243E-06	5.9862E-06	6.8571E-06	7.6471E-06	6.9591E-06	6.0688E-06	3.9185E-06	9.9774E-07	2.4259E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5608E-06	8.3327E-06	9.4434E-06	7.5670E-06	6.2760E-06	7.1947E-06	7.9899E-06	7.2933E-06	6.3489E-06	4.1318E-06	1.0317E-06	2.5478E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	R2e_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4559E-06	8.1229E-06	9.2631E-06	7.4272E-06	6.1347E-06	7.0401E-06	7.7221E-06	7.0337E-06	6.1432E-06	3.9608E-06	9.8459E-07	2.3982E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2901E-06	7.7829E-06	8.7822E-06	6.9811E-06	5.7603E-06	6.6298E-06	7.2930E-06	6.6863E-06	5.7417E-06	3.6785E-06	9.0994E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3615E-06	7.9075E-06	8.9185E-06	7.0679E-06	5.8287E-06	6.6691E-06	7.4194E-06	6.7548E-06	5.8385E-06	3.7280E-06	9.2523E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1126E-06	7.3452E-06	8.4336E-06	6.8171E-06	5.5440E-06	6.3505E-06	7.0650E-06	6.4060E-06	5.5707E-06	3.5634E-06	8.8568E-07	2.1781E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1244E-06	7.4674E-06	8.4107E-06	6.6294E-06	5.4622E-06	6.3515E-06	7.0450E-06	6.4424E-06	5.5675E-06	3.5902E-06	8.9480E-07	2.1406E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0129E-06	7.1262E-06	7.9525E-06	6.3668E-06	5.3193E-06	6.1452E-06	6.7496E-06	6.0659E-06	5.3266E-06	3.5030E-06	8.3429E-07	1.9937E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8562E-06	6.7044E-06	7.7684E-06	6.4592E-06	5.0914E-06	5.7843E-06	6.5461E-06	6.0583E-06	5.2178E-06	3.2757E-06	8.1926E-07	2.0121E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9080E-06	6.9336E-06	8.1131E-06	6.4604E-06	5.3648E-06	6.1757E-06	6.8365E-06	6.1830E-06	5.2670E-06	3.3825E-06	8.3056E-07	1.9924E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2991E-06	7.7961E-06	8.8985E-06	7.0966E-06	5.9116E-06	6.7457E-06	7.5150E-06	6.9157E-06	6.0310E-06	3.9098E-06	9.8498E-07	2.3807E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2948E-06	7.7403E-06	8.6981E-06	6.9351E-06	5.6761E-06	6.4385E-06	7.1629E-06	6.4800E-06	5.6100E-06	3.6790E-06	9.1033E-07	2.2029E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4045E-06	7.9589E-06	9.0011E-06	7.2243E-06	5.9862E-06	6.8571E-06	7.6471E-06	6.9591E-06	6.0688E-06	3.9185E-06	9.9774E-07	2.4259E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5608E-06	8.3327E-06	9.4434E-06	7.5670E-06	6.2760E-06	7.1947E-06	7.9899E-06	7.2933E-06	6.3489E-06	4.1318E-06	1.0317E-06	2.5478E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4298E-06	8.0442E-06	9.1592E-06	7.3379E-06	6.0449E-06	6.8986E-06	7.5844E-06	6.9496E-06	6.0633E-06	3.9311E-06	9.7906E-07	2.3846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2517E-06	7.6779E-06	8.6553E-06	6.8568E-06	5.6809E-06	6.4779E-06	7.2357E-06	6.6488E-06	5.7147E-06	3.6398E-06	9.0271E-07	2.2498E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3104E-06	7.7706E-06	8.7317E-06	6.9188E-06	5.7054E-06	6.5073E-06	7.3212E-06	6.6350E-06	5.7471E-06	3.6918E-06	9.1843E-07	2.2233E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0544E-06	7.1502E-06	8.1901E-06	6.5870E-06	5.4157E-06	6.2036E-06	6.9759E-06	6.3452E-06	5.4437E-06	3.5014E-06	8.7792E-07	2.1528E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0676E-06	7.2894E-06	8.2094E-06	6.5267E-06	5.3784E-06	6.1419E-06	6.8965E-06	6.3260E-06	5.4490E-06	3.5351E-06	8.8928E-07	2.1204E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9442E-06	6.8034E-06	7.6785E-06	6.1424E-06	5.0699E-06	5.7540E-06	6.4593E-06	5.8538E-06	5.0355E-06	3.4277E-06	8.2677E-07	1.9753E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8043E-06	6.3520E-06	7.2703E-06	6.0298E-06	4.8638E-06	5.5068E-06	6.3142E-06	5.8835E-06	5.1090E-06	3.1956E-06	8.0420E-07	1.9846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8173E-06	6.7075E-06	7.7684E-06	6.2421E-06	5.1772E-06	5.8812E-06	6.4300E-06	6.0083E-06	5.1278E-06	3.3071E-06	8.1546E-07	1.9631E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2595E-06	7.6901E-06	8.6716E-06	6.9369E-06	5.7985E-06	6.5628E-06	7.3594E-06	6.7563E-06	5.8920E-06	3.8345E-06	9.6992E-07	2.3438E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2474E-06	7.5981E-06	8.5825E-06	6.8441E-06	5.5247E-06	6.3502E-06	7.0887E-06	6.4381E-06	5.5570E-06	3.5577E-06	8.8281E-07	2.1502E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3635E-06	7.8393E-06	8.9599E-06	7.1509E-06	5.9248E-06	6.7710E-06	7.5166E-06	6.8565E-06	5.9943E-06	3.8431E-06	9.8252E-07	2.4082E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5314E-06	8.2843E-06	9.3823E-06	7.4909E-06	6.2131E-06	7.1047E-06	7.9040E-06	7.2407E-06	6.2804E-06	4.0945E-06	1.0238E-06	2.5279E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4559E-06	8.1229E-06	9.2631E-06	7.4272E-06	6.1347E-06	7.0401E-06	7.7221E-06	7.0337E-06	6.1432E-06	3.9608E-06	9.8459E-07	2.3982E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2901E-06	7.7829E-06	8.7822E-06	6.9811E-06	5.7603E-06	6.6298E-06	7.2930E-06	6.6863E-06	5.7417E-06	3.6785E-06	9.0994E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3615E-06	7.9075E-06	8.9185E-06	7.0679E-06	5.8287E-06	6.6691E-06	7.4194E-06	6.7548E-06	5.8385E-06	3.7280E-06	9.2523E-07	2.2602E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1126E-06	7.3452E-06	8.4336E-06	6.8171E-06	5.5440E-06	6.3505E-06	7.0650E-06	6.4060E-06	5.5707E-06	3.5634E-06	8.8568E-07	2.1781E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1244E-06	7.4674E-06	8.4107E-06	6.6294E-06	5.4622E-06	6.3515E-06	7.0450E-06	6.4424E-06	5.5675E-06	3.5902E-06	8.9480E-07	2.1406E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0129E-06	7.1262E-06	7.9525E-06	6.3668E-06	5.3193E-06	6.1452E-06	6.7496E-06	6.0659E-06	5.3266E-06	3.5030E-06	8.3429E-07	1.9937E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8562E-06	6.7044E-06	7.7684E-06	6.4592E-06	5.0914E-06	5.7843E-06	6.5461E-06	6.0583E-06	5.2178E-06	3.2757E-06	8.1926E-07	2.0121E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9080E-06	6.9336E-06	8.1131E-06	6.4604E-06	5.3648E-06	6.1757E-06	6.8365E-06	6.1830E-06	5.2670E-06	3.3825E-06	8.3056E-07	1.9924E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2991E-06	7.7961E-06	8.8985E-06	7.0966E-06	5.9116E-06	6.7457E-06	7.5150E-06	6.9157E-06	6.0310E-06	3.9098E-06	9.8498E-07	2.3807E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2948E-06	7.7403E-06	8.6981E-06	6.9351E-06	5.6761E-06	6.4385E-06	7.1629E-06	6.4800E-06	5.6100E-06	3.6790E-06	9.1033E-07	2.2029E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4045E-06	7.9589E-06	9.0011E-06	7.2243E-06	5.9862E-06	6.8571E-06	7.6471E-06	6.9591E-06	6.0688E-06	3.9185E-06	9.9774E-07	2.4259E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5608E-06	8.3327E-06	9.4434E-06	7.5670E-06	6.2760E-06	7.1947E-06	7.9899E-06	7.2933E-06	6.3489E-06	4.1318E-06	1.0317E-06	2.5478E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4298E-06	8.0442E-06	9.1592E-06	7.3379E-06	6.0449E-06	6.8986E-06	7.5844E-06	6.9496E-06	6.0633E-06	3.9311E-06	9.7906E-07	2.3846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2517E-06	7.6779E-06	8.6553E-06	6.8568E-06	5.6809E-06	6.4779E-06	7.2357E-06	6.6488E-06	5.7147E-06	3.6398E-06	9.0271E-07	2.2498E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3104E-06	7.7706E-06	8.7317E-06	6.9188E-06	5.7054E-06	6.5073E-06	7.3212E-06	6.6350E-06	5.7471E-06	3.6918E-06	9.1843E-07	2.2233E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0544E-06	7.1502E-06	8.1901E-06	6.5870E-06	5.4157E-06	6.2036E-06	6.9759E-06	6.3452E-06	5.4437E-06	3.5014E-06	8.7792E-07	2.1528E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0676E-06	7.2894E-06	8.2094E-06	6.5267E-06	5.3784E-06	6.1419E-06	6.8965E-06	6.3260E-06	5.4490E-06	3.5351E-06	8.8928E-07	2.1204E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9442E-06	6.8034E-06	7.6785E-06	6.1424E-06	5.0699E-06	5.7540E-06	6.4593E-06	5.8538E-06	5.0355E-06	3.4277E-06	8.2677E-07	1.9753E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8043E-06	6.3520E-06	7.2703E-06	6.0298E-06	4.8638E-06	5.5068E-06	6.3142E-06	5.8835E-06	5.1090E-06	3.1956E-06	8.0420E-07	1.9846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8173E-06	6.7075E-06	7.7684E-06	6.2421E-06	5.1772E-06	5.8812E-06	6.4300E-06	6.0083E-06	5.1278E-06	3.3071E-06	8.1546E-07	1.9631E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2595E-06	7.6901E-06	8.6716E-06	6.9369E-06	5.7985E-06	6.5628E-06	7.3594E-06	6.7563E-06	5.8920E-06	3.8345E-06	9.6992E-07	2.3438E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2474E-06	7.5981E-06	8.5825E-06	6.8441E-06	5.5247E-06	6.3502E-06	7.0887E-06	6.4381E-06	5.5570E-06	3.5577E-06	8.8281E-07	2.1502E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3635E-06	7.8393E-06	8.9599E-06	7.1509E-06	5.9248E-06	6.7710E-06	7.5166E-06	6.8565E-06	5.9943E-06	3.8431E-06	9.8252E-07	2.4082E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5314E-06	8.2843E-06	9.3823E-06	7.4909E-06	6.2131E-06	7.1047E-06	7.9040E-06	7.2407E-06	6.2804E-06	4.0945E-06	1.0238E-06	2.5279E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.4298E-06	8.0442E-06	9.1592E-06	7.3379E-06	6.0449E-06	6.8986E-06	7.5844E-06	6.9496E-06	6.0633E-06	3.9311E-06	9.7906E-07	2.3846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2517E-06	7.6779E-06	8.6553E-06	6.8568E-06	5.6809E-06	6.4779E-06	7.2357E-06	6.6488E-06	5.7147E-06	3.6398E-06	9.0271E-07	2.2498E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3104E-06	7.7706E-06	8.7317E-06	6.9188E-06	5.7054E-06	6.5073E-06	7.3212E-06	6.6350E-06	5.7471E-06	3.6918E-06	9.1843E-07	2.2233E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0544E-06	7.1502E-06	8.1901E-06	6.5870E-06	5.4157E-06	6.2036E-06	6.9759E-06	6.3452E-06	5.4437E-06	3.5014E-06	8.7792E-07	2.1528E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0676E-06	7.2894E-06	8.2094E-06	6.5267E-06	5.3784E-06	6.1419E-06	6.8965E-06	6.3260E-06	5.4490E-06	3.5351E-06	8.8928E-07	2.1204E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9442E-06	6.8034E-06	7.6785E-06	6.1424E-06	5.0699E-06	5.7540E-06	6.4593E-06	5.8538E-06	5.0355E-06	3.4277E-06	8.2677E-07	1.9753E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8043E-06	6.3520E-06	7.2703E-06	6.0298E-06	4.8638E-06	5.5068E-06	6.3142E-06	5.8835E-06	5.1090E-06	3.1956E-06	8.0420E-07	1.9846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8173E-06	6.7075E-06	7.7684E-06	6.2421E-06	5.1772E-06	5.8812E-06	6.4300E-06	6.0083E-06	5.1278E-06	3.3071E-06	8.1546E-07	1.9631E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2595E-06	7.6901E-06	8.6716E-06	6.9369E-06	5.7985E-06	6.5628E-06	7.3594E-06	6.7563E-06	5.8920E-06	3.8345E-06	9.6992E-07	2.3438E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2474E-06	7.5981E-06	8.5825E-06	6.8441E-06	5.5247E-06	6.3502E-06	7.0887E-06	6.4381E-06	5.5570E-06	3.5577E-06	8.8281E-07	2.1502E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3635E-06	7.8393E-06	8.9599E-06	7.1509E-06	5.9248E-06	6.7710E-06	7.5166E-06	6.8565E-06	5.9943E-06	3.8431E-06	9.8252E-07	2.4082E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5314E-06	8.2843E-06	9.3823E-06	7.4909E-06	6.2131E-06	7.1047E-06	7.9040E-06	7.2407E-06	6.2804E-06	4.0945E-06	1.0238E-06	2.5279E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	TKO15	1	1.1273E-07	3.6702E-08	2.9202E-09	5.1613E-10	6.0104E-10	3.6451E-08	1.5709E-07	2.8423E-07	4.6087E-07	4.5435E-07	4.6189E-07	6.7272E-07	4.7674E-07	4.4660E-07	5.9255E-07	3.6545E-07	5.5953E-07	5.6327E-07	4.7029E-07	2.4692E-07	1.9284E-07	1.9935E-07	1.0572E-07	8.1379E-08
NO2	TKO15	2	1.1072E-07	3.6196E-08	2.7723E-09	4.5724E-10	5.3433E-10	3.5972E-08	1.5414E-07	2.7695E-07	4.4844E-07	4.4451E-07	4.4843E-07	6.4563E-07	4.6164E-07	4.3236E-07	5.7277E-07	3.5806E-07	5.4258E-07	5.4147E-07	4.5209E-07	2.4279E-07	1.8889E-07	1.9449E-07	1.0348E-07	7.9109E-08
NO2	TKO15	3	1.0982E-07	3.5901E-08	2.6861E-09	4.3622E-10	5.0538E-10	3.5771E-08	1.5432E-07	2.7926E-07	4.5360E-07	4.4809E-07	4.5243E-07	6.5350E-07	4.6438E-07	4.3371E-07	5.7895E-07	3.5835E-07	5.4457E-07	5.4667E-07	4.5823E-07	2.4190E-07	1.8858E-07	1.9419E-07	1.0341E-07	7.8912E-08
NO2	TKO15	4	1.0795E-07	3.5429E-08	2.5823E-09	3.8966E-10	4.4523E-10	3.5282E-08	1.5115E-07	2.6912E-07	4.3568E-07	4.3239E-07	4.4066E-07	6.4117E-07	4.5655E-07	4.2418E-07	5.6384E-07	3.5039E-07	5.3182E-07	5.3334E-07	4.4687E-07	2.3906E-07	1.8560E-07	1.9129E-07	1.0196E-07	7.7177E-08
NO2	TKO15	5	1.0823E-07	3.5498E-08	2.5779E-09	3.9594E-10	4.4970E-10	3.5330E-08	1.5156E-07	2.7285E-07	4.3661E-07	4.3549E-07	4.3886E-07	6.3441E-07	4.5033E-07	4.2301E-07	5.6211E-07	3.5085E-07	5.3002E-07	5.3459E-07	4.4840E-07	2.3750E-07	1.8463E-07	1.9053E-07	1.0196E-07	7.7509E-08
NO2	TKO15	6	1.0602E-07	3.4722E-08	2.3544E-09	3.4517E-10	3.9934E-10	3.4760E-08	1.4971E-07	2.6615E-07	4.2765E-07	4.2470E-07	4.2749E-07	6.1913E-07	4.4569E-07	4.1519E-07	5.5198E-07	3.3908E-07	5.2111E-07	5.2786E-07	4.3467E-07	2.3251E-07	1.8063E-07	1.8620E-07	9.9897E-08	7.5149E-08
NO2	TKO15	7	1.0566E-07	3.4700E-08	2.3920E-09	3.4938E-10	3.9696E-10	3.4489E-08	1.4565E-07	2.5875E-07	4.1605E-07	4.1398E-07	4.2364E-07	6.2638E-07	4.3839E-07	4.0684E-07	5.4331E-07	3.4124E-07	5.1224E-07	5.1047E-07	4.3103E-07	2.3284E-07	1.8053E-07	1.8609E-07	1.0042E-07	7.5466E-08
NO2	TKO15	8	1.0573E-07	3.4661E-08	2.4284E-09	3.4646E-10	3.9754E-10	3.4568E-08	1.4687E-07	2.6215E-07	4.1987E-07	4.1996E-07	4.3089E-07	6.2294E-07	4.4844E-07	4.1958E-07	5.5814E-07	3.4439E-07	5.1477E-07	5.1869E-07	4.3285E-07	2.3214E-07	1.8108E-07	1.8635E-07	1.0149E-07	7.5682E-08
NO2	TKO15	9	1.1065E-07	3.6057E-08	2.7117E-09	4.1173E-10	4.8050E-10	3.5816E-08	1.5391E-07	2.7668E-07	4.5063E-07	4.4459E-07	4.5178E-07	6.5341E-07	4.6762E-07	4.3615E-07	5.8222E-07	3.6235E-07	5.5244E-07	5.6023E-07	4.7011E-07	2.4607E-07	1.9282E-07	1.9780E-07	1.0482E-07	8.0116E-08
NO2	TKO15	10	1.1075E-07	3.5922E-08	2.6485E-09	4.0307E-10	4.6757E-10	3.5629E-08	1.5407E-07	2.7719E-07	4.4852E-07	4.4291E-07	4.4643E-07	6.4752E-07	4.5895E-07	4.2748E-07	5.6936E-07	3.5190E-07	5.3430E-07	5.4330E-07	4.5286E-07	2.3997E-07	1.8644E-07	1.9211E-07	1.0473E-07	7.9980E-08
NO2	TKO15	11	1.1169E-07	3.6401E-08	2.8146E-09	4.7065E-10	5.4326E-10	3.6230E-08	1.5623E-07	2.8249E-07	4.5733E-07	4.5012E-07	4.5461E-07	6.6169E-07	4.7068E-07	4.3995E-07	5.8792E-07	3.6350E-07	5.5635E-07	5.5989E-07	4.7332E-07	2.4826E-07	1.9369E-07	1.9899E-07	1.0546E-07	8.0856E-08
NO2	TKO15	12	1.1332E-07	3.6885E-08	2.9604E-09	5.4051E-10	6.2998E-10	3.6661E-08	1.5859E-07	2.8815E-07	4.6910E-07	4.6181E-07	4.6744E-07	6.8074E-07	4.8284E-07	4.5134E-07	6.0270E-07	3.7240E-07	5.6995E-07	5.7642E-07	4.8161E-07	2.5240E-07	1.9725E-07	2.0261E-07	1.0677E-07	8.2171E-08
NO2	TKO16	1	1.2979E-07	3.8359E-08	6.3229E-09	6.6816E-08	4.0443E-08	4.2491E-08	1.1765E-07	2.9234E-07	3.4804E-07	4.8845E-07	3.6357E-07	3.0697E-07	2.4746E-07	2.6462E-07	5.0854E-07	3.4802E-07	4.7141E-07	2.6529E-07	3.4880E-07	3.1432E-07	2.6705E-07	1.2513E-07	1.5111E-07	6.7238E-08
NO2	TKO16	2	1.2507E-07	3.7762E-08	5.8844E-09	6.5271E-08	3.8795E-08	4.1481E-08	1.1300E-07	2.7998E-07	3.3539E-07	4.7514E-07	3.4833E-07	2.9182E-07	2.3761E-07	2.5406E-07	4.8767E-07	3.3873E-07	4.5302E-07	2.5225E-07	3.3287E-07	3.0512E-07	2.5937E-07	1.2147E-07	1.4656E-07	6.5088E-08
NO2	TKO16	3	1.2313E-07	3.7419E-08	5.6469E-09	6.4546E-08	3.8109E-08	4.1118E-08	1.1314E-07	2.8331E-07	3.3994E-07	4.7942E-07	3.5198E-07	2.9582E-07	2.3934E-07	2.5516E-07	4.9440E-07	3.3920E-07	4.5525E-07	2.5556E-07	3.3840E-07	3.0290E-07	2.5864E-07	1.2111E-07	1.4640E-07	6.4825E-08
NO2	TKO16	4	1.1894E-07	3.6855E-08	5.3370E-09	6.3084E-08	3.6150E-08	4.0197E-08	1.0834E-07	2.6699E-07	3.2262E-07	4.5872E-07	3.3938E-07	2.8922E-07	2.3443E-07	2.4810E-07	4.7857E-07	3.2913E-07	4.4151E-07	2.4767E-07	3.2823E-07	2.9642E-07	2.5278E-07	1.1883E-07	1.4342E-07	6.3025E-08
NO2	TKO16	5	1.1955E-07	3.6933E-08	5.3285E-09	6.3480E-08	3.6428E-08	4.0268E-08	1.0890E-07	2.7288E-07	3.2333E-07	4.6254E-07	3.3715E-07	2.8550E-07	2.3045E-07	2.4722E-07	4.7675E-07	3.2963E-07	4.3957E-07	2.4845E-07	3.2933E-07	2.9295E-07	2.5091E-07	1.1828E-07	1.4342E-07	6.3371E-08
NO2	TKO16	6	1.1517E-07	3.6062E-08	4.7701E-09	6.0744E-08	3.4088E-08	3.9334E-08	1.0619E-07	2.6221E-07	3.1477E-07	4.4868E-07	3.2530E-07	2.7764E-07	2.2766E-07	2.4177E-07	4.6647E-07	3.1529E-07	4.3007E-07	2.4442E-07	3.1789E-07	2.8203E-07	2.4340E-07	1.1510E-07	1.3923E-07	6.1105E-08
NO2	TKO16	7	1.1446E-07	3.6038E-08	4.8575E-09	6.0895E-08	3.4065E-08	3.8904E-08	1.0037E-07	2.5056E-07	3.0401E-07	4.3486E-07	3.2147E-07	2.8131E-07	2.2322E-07	2.3602E-07	4.5761E-07	3.1786E-07	4.2107E-07	2.3521E-07	3.1498E-07	2.8271E-07	2.4320E-07	1.1501E-07	1.4028E-07	6.1375E-08

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	TKO16	8	1.1462E-07	3.6008E-08	4.9599E-09	6.0746E-08	3.4204E-08	3.9038E-08	1.0214E-07	2.5585E-07	3.0750E-07	4.4269E-07	3.2906E-07	2.7964E-07	2.2930E-07	2.4479E-07	4.7279E-07	3.2168E-07	4.2371E-07	2.3970E-07	3.1643E-07	2.8125E-07	2.4422E-07	1.1522E-07	1.4248E-07	6.1665E-08
NO2	TKO16	9	1.2418E-07	3.7558E-08	5.6682E-09	6.4746E-08	3.8144E-08	4.0993E-08	1.1219E-07	2.7891E-07	3.3638E-07	4.7447E-07	3.5040E-07	2.9518E-07	2.4095E-07	2.5634E-07	4.9737E-07	3.4357E-07	4.6269E-07	2.6198E-07	3.4727E-07	3.1159E-07	2.6612E-07	1.2352E-07	1.4914E-07	6.5578E-08
NO2	TKO16	10	1.2436E-07	3.7412E-08	5.5140E-09	6.4294E-08	3.7571E-08	4.0713E-08	1.1253E-07	2.7971E-07	3.3447E-07	4.7224E-07	3.4493E-07	2.9218E-07	2.3560E-07	2.5023E-07	4.8408E-07	3.3082E-07	4.4377E-07	2.5268E-07	3.3301E-07	2.9834E-07	2.5418E-07	1.1943E-07	1.4905E-07	6.5508E-08
NO2	TKO16	11	1.2682E-07	3.7981E-08	5.9848E-09	6.6048E-08	3.9453E-08	4.1946E-08	1.1611E-07	2.8876E-07	3.4359E-07	4.8212E-07	3.5427E-07	2.9966E-07	2.4291E-07	2.5913E-07	5.0314E-07	3.4515E-07	4.6710E-07	2.6269E-07	3.5059E-07	3.1688E-07	2.6822E-07	1.2460E-07	1.5058E-07	6.6589E-08
NO2	TKO16	12	1.3088E-07	3.8591E-08	6.4412E-09	6.7381E-08	4.1072E-08	4.2897E-08	1.2004E-07	2.9883E-07	3.5611E-07	4.9854E-07	3.6948E-07	3.1118E-07	2.5137E-07	2.6788E-07	5.1925E-07	3.5672E-07	4.8235E-07	2.7274E-07	3.5791E-07	3.2664E-07	2.7570E-07	1.2762E-07	1.5335E-07	6.8063E-08
NO2	TKO17	1	8.7346E-09	1.2432E-10	0.0000E+00	0.0000E+00	5.4857E-10	4.5332E-10	9.8670E-08	1.7560E-07	1.5174E-07	3.1638E-07	2.7330E-07	2.0188E-07	2.8928E-07	2.0654E-07	3.4115E-07	2.5049E-07	2.7293E-07	2.2215E-07	1.8411E-07	1.5105E-07	9.9806E-08	7.3196E-08	5.8091E-08	3.4471E-08
NO2	TKO17	2	8.5549E-09	1.1134E-10	0.0000E+00	0.0000E+00	4.8432E-10	3.9784E-10	9.7205E-08	1.7173E-07	1.4866E-07	3.0909E-07	2.6591E-07	1.9525E-07	2.8059E-07	2.0091E-07	3.3040E-07	2.4524E-07	2.6510E-07	2.1529E-07	1.7897E-07	1.4897E-07	9.8195E-08	7.2007E-08	5.6995E-08	3.3741E-08
NO2	TKO17	3	8.4758E-09	1.0997E-10	0.0000E+00	0.0000E+00	4.5697E-10	3.7939E-10	9.7287E-08	1.7297E-07	1.4985E-07	3.1174E-07	2.6803E-07	1.9714E-07	2.8218E-07	2.0144E-07	3.3378E-07	2.4546E-07	2.6605E-07	2.1688E-07	1.8072E-07	1.4850E-07	9.8073E-08	7.1925E-08	5.6956E-08	3.3661E-08
NO2	TKO17	4	8.3139E-09	1.0075E-10	0.0000E+00	0.0000E+00	3.9871E-10	3.3830E-10	9.5735E-08	1.6757E-07	1.4552E-07	3.0024E-07	2.6163E-07	1.9416E-07	2.7773E-07	1.9767E-07	3.2558E-07	2.3980E-07	2.6018E-07	2.1280E-07	1.7753E-07	1.4706E-07	9.6849E-08	7.1219E-08	5.6235E-08	3.3101E-08
NO2	TKO17	5	8.3317E-09	1.0075E-10	0.0000E+00	0.0000E+00	4.0372E-10	3.3638E-10	9.5931E-08	1.6956E-07	1.4573E-07	3.0250E-07	2.6063E-07	1.9254E-07	2.7413E-07	1.9722E-07	3.2465E-07	2.4012E-07	2.5936E-07	2.1310E-07	1.7794E-07	1.4625E-07	9.6448E-08	7.1024E-08	5.6233E-08	3.3196E-08
NO2	TKO17	6	8.1638E-09	9.2894E-11	0.0000E+00	0.0000E+00	3.5373E-10	3.0497E-10	9.5033E-08	1.6599E-07	1.4355E-07	2.9453E-07	2.5444E-07	1.8891E-07	2.7147E-07	1.9415E-07	3.1919E-07	2.3185E-07	2.5526E-07	2.1106E-07	1.7410E-07	1.4378E-07	9.4818E-08	6.9960E-08	5.5220E-08	3.2460E-08
NO2	TKO17	7	8.1388E-09	9.2894E-11	0.0000E+00	0.0000E+00	3.5243E-10	2.9528E-10	9.3067E-08	1.6205E-07	1.4080E-07	2.8668E-07	2.5237E-07	1.9062E-07	2.6733E-07	1.9090E-07	3.1449E-07	2.3336E-07	2.5129E-07	2.0584E-07	1.7310E-07	1.4395E-07	9.4764E-08	6.9926E-08	5.5470E-08	3.2557E-08
NO2	TKO17	8	8.1421E-09	8.9134E-11	0.0000E+00	0.0000E+00	3.5308E-10	2.9577E-10	9.3656E-08	1.6386E-07	1.4171E-07	2.9106E-07	2.5634E-07	1.8984E-07	2.7303E-07	1.9588E-07	3.2250E-07	2.3557E-07	2.5242E-07	2.0832E-07	1.7360E-07	1.4359E-07	9.5004E-08	6.9994E-08	5.5995E-08	3.2621E-08
NO2	TKO17	9	8.5087E-09	1.0178E-10	0.0000E+00	0.0000E+00	4.3589E-10	3.6130E-10	9.7063E-08	1.7160E-07	1.4908E-07	3.0916E-07	2.6764E-07	1.9705E-07	2.8401E-07	2.0236E-07	3.3551E-07	2.4819E-07	2.6938E-07	2.2075E-07	1.8394E-07	1.5048E-07	9.9795E-08	7.2808E-08	5.7605E-08	3.3993E-08
NO2	TKO17	10	8.5162E-09	1.0314E-10	0.0000E+00	0.0000E+00	4.2378E-10	3.5142E-10	9.7145E-08	1.7187E-07	1.4858E-07	3.0795E-07	2.6476E-07	1.9562E-07	2.7905E-07	1.9896E-07	3.2856E-07	2.4083E-07	2.6122E-07	2.1570E-07	1.7914E-07	1.4746E-07	9.7198E-08	7.1416E-08	5.7568E-08	3.3958E-08
NO2	TKO17	11	8.6161E-09	1.1373E-10	0.0000E+00	0.0000E+00	4.9434E-10	4.1881E-10	9.8227E-08	1.7468E-07	1.5079E-07	3.1322E-07	2.6926E-07	1.9903E-07	2.8577E-07	2.0388E-07	3.3859E-07	2.4900E-07	2.7126E-07	2.2087E-07	1.8489E-07	1.5166E-07	1.0016E-07	7.3115E-08	5.7948E-08	3.4277E-08
NO2	TKO17	12	8.7747E-09	1.2569E-10	0.0000E+00	0.0000E+00	5.7591E-10	4.7554E-10	9.9413E-08	1.7770E-07	1.5373E-07	3.2185E-07	2.7633E-07	2.0376E-07	2.9280E-07	2.0840E-07	3.4668E-07	2.5540E-07	2.7766E-07	2.2612E-07	1.8723E-07	1.5378E-07	1.0161E-07	7.3997E-08	5.8606E-08	3.4725E-08
NO2	TKO19	1	2.6838E-08	5.4833E-08	2.0080E-08	3.0182E-08	2.0959E-08	1.6219E-07	2.4537E-07	2.3272E-06	4.3348E-06	6.4986E-06	7.0727E-06	6.1782E-06	5.6034E-06	5.9668E-06	6.4073E-06	6.1430E-06	5.5682E-06	4.6490E-06	2.9465E-06	5.1952E-07	2.5104E-07	9.5280E-08	8.9482E-08	1.3756E-08
NO2	TKO19	2	2.5490E-08	5.3572E-08	1.9437E-08	2.9164E-08	2.0239E-08	1.5957E-07	2.3876E-07	2.2525E-06	4.2149E-06	6.3504E-06	6.8553E-06	5.9370E-06	5.4081E-06	5.7630E-06	6.1911E-06	6.0005E-06	5.3972E-06	4.4589E-06	2.8182E-06	5.0558E-07	2.4463E-07	9.2510E-08	8.6238E-08	1.2992E-08
NO2	TKO19	3	2.4892E-08	5.2869E-08	1.9012E-08	2.8702E-08	1.9935E-08	1.5848E-07	2.3903E-07	2.2770E-06	4.2655E-06	6.4058E-06	6.9221E-06	6.0073E-06	5.4438E-06	5.7819E-06	6.2583E-06	6.0056E-06	5.4175E-06	4.5044E-06	2.8614E-06	5.0247E-07	2.4410E-07	9.2304E-08	8.6100E-08	1.2871E-08
NO2	TKO19	4	2.3664E-08	5.1711E-08	1.8562E-08	2.7747E-08	1.9071E-08	1.5582E-07	2.3208E-07	2.1720E-06	4.0930E-06	6.1689E-06	6.7311E-06	5.8970E-06	5.3431E-06	5.6451E-06	6.0932E-06	5.8509E-06	5.2887E-06	4.3887E-06	2.7808E-06	4.9306E-07	2.3929E-07	9.0670E-08	8.3970E-08	1.2254E-08
NO2	TKO19	5	2.3841E-08	5.1888E-08	1.8529E-08	2.8006E-08	1.9197E-08	1.5607E-07	2.3296E-07	2.2108E-06	4.1022E-06	6.2166E-06	6.7012E-06	5.8368E-06	5.2623E-06	5.6283E-06	6.0750E-06	5.8603E-06	5.2708E-06	4.3996E-06	2.7920E-06	4.8755E-07	2.3760E-07	9.0175E-08	8.3941E-08	1.2382E-08
NO2	TKO19	6	2.2657E-08	5.0096E-08	1.7347E-08	2.6266E-08	1.8154E-08	1.5298E-07	2.2889E-07	2.1413E-06	4.0157E-06	6.0518E-06	6.5165E-06	5.7002E-06	5.2021E-06	5.5153E-06	5.9634E-06	5.6311E-06	5.1804E-06	4.3411E-06	2.6946E-06	4.7073E-07	2.3122E-07	8.7820E-08	8.0983E-08	1.1576E-08
NO2	TKO19	7	2.2490E-08	5.0048E-08	1.7527E-08	2.6358E-08	1.8129E-08	1.5148E-07	2.2024E-07	2.0640E-06	3.9033E-06	5.8884E-06	6.4530E-06	5.7652E-06	5.1075E-06	5.3950E-06	5.8682E-06	5.6731E-06	5.0907E-06	4.1891E-06	2.6688E-06	4.7186E-07	2.3103E-07	8.7757E-08	8.1746E-08	1.1678E-08
NO2	TKO19	8	2.2507E-08	4.9963E-08	1.7740E-08	2.6272E-08	1.8191E-08	1.5191E-07	2.2287E-07	2.0994E-06	3.9402E-06	5.9796E-06	6.5723E-06	5.7337E-06	5.2380E-06	5.5786E-06	6.0318E-06	5.7352E-06	5.1157E-06	4.2603E-06	2.6818E-06	4.6944E-07	2.3193E-07	8.7895E-08	8.3244E-08	1.1744E-08
NO2	TKO19	9	2.5044E-08	5.3196E-08	1.9293E-08	2.8770E-08	1.9950E-08	1.5865E-07	2.3788E-07	2.2509E-06	4.2380E-06	6.3553E-06	6.9130E-06	6.0067E-06	5.4857E-06	5.8174E-06	6.2946E-06	6.0838E-06	5.4974E-06	4.6229E-06	2.9464E-06	5.1691E-07	2.5081E-07	9.4042E-08	8.7963E-08	1.3228E-08
NO2	TKO19	10	2.5076E-08	5.2868E-08	1.8956E-08	2.8495E-08	1.9688E-08	1.5767E-07	2.3834E-07	2.2562E-06	4.2172E-06	6.3297E-06	6.8261E-06	5.9548E-06	5.3734E-06	5.6925E-06	6.1542E-06	5.8809E-06	5.3140E-06	4.4756E-06	2.8239E-06	4.9614E-07	2.4059E-07	9.1008E-08	8.7910E-08	1.3197E-08
NO2	TKO19	11	2.5865E-08	5.4039E-08	1.9701E-08	2.9656E-08	2.0519E-08	1.6099E-07	2.4328E-07	2.3102E-06	4.3012E-06	6.4372E-06	6.9580E-06	6.0807E-06	5.5254E-06	5.8721E-06	6.3570E-06	6.1057E-06	5.5372E-06	4.6198E-06	2.9688E-06	5.2437E-07	2.5233E-07	9.4865E-08	8.9035E-08	1.3533E-08
NO2	TKO19	12	2.7193E-08	5.5292E-08	2.0296E-08	3.0553E-08	2.1228E-08	1.6334E-07	2.4877E-07	2.3676E-06	4.4135E-06	6.6118E-06	7.1631E-06	6.2501E-06	5.6820E-06	6.0347E-06	6.5178E-06	6.2773E-06	5.6745E-06	4.7634E-06	3.0272E-06	5.3813E-07	2.5818E-07	9.7038E-08	9.1066E-08	1.4019E-08
NO2	TKO20	1	1.2729E-07	8.0582E-08	3.5260E-09	9.8015E-08	3.7545E-08	6.7573E-08	1.8304E-07	2.8859E-07	7.4116E-07	9.3117E-07	7.1465E-07	8.0119E-07	5.5200E-07	5.6448E-07	9.0211E-07	5.1135E-07	6.7592E-07	7.3925E-07	7.1248E-07	2.3366E-07	1.3230E-07	9.3636E-08	7.5034E-08	5.2022E-08
NO2	TKO20	2	1.2410E-07	7.9482E-08	3.1579E-09	9.5448E-08	3.6032E-08	6.6258E-08	1.7764E-07	2.7823E-07	7.1694E-07	9.0543E-07	6.8537E-07	7.6113E-07	5.2894E-07	5.4147E-07	8.6369E-07	4.9734E-07	6.5021E-07	7.0091E-07	6.7555E-07	2.2755E-07	1.2939E-07	9.0972E-08	7.3416E-08	5.0149E-08
NO2	TKO20	3	1.2272E-07	7.8836E-08	2.9761E-09	9.4222E-08	3.5385E-08	6.5753E-08	1.7787E-07	2.8099E-07	7.2648E-07	9.1453E-07	6.9333E-07	7.7252E-07	5.3297E-07	5.4366E-07	8.7581E-07	4.9795E-07	6.5331E-07	7.0993E-07	6.8793E-07	2.2606E-07	1.2905E-07	9.0748E-08	7.3339E-08	4.9821E-08
NO2	TKO20	4	1.1985E-07	7.7795E-08	2.7389E-09	9.1770E-08	3.3593E-08	6.4503E-08	1.7223E-07	2.6733E-07	6.9205E-07	8.7377E-07	6.6825E-07	7.5442E-07	5.2121E-07	5.2827E-07	8.4648E-07	4.8273E-07	6.3400E-07	6.8683E-07	6.6488E-07	2.2169E-07	1.2668E-07	8.9158E-08	7.2259E-08	4.8286E-08
NO2	TKO20	5	1.2018E-07	7.7948E-08	2.7143E-09	9.2442E-08	3.3846E-08	6.4611E-08	1.7292E-07	2.7219E-07	6.9369E-07	8.8165E-07	6.6427E-07	7.4444E-07	5.1182E-07	5.2640E-07	8.4316E-07	4.8356E-07	6.3132E-07	6.8879E-07	6.6785E-07	2.1941E-07	1.2593E-07	8.8740E-08	7.2231E-08	4.8511E-08
NO2	TKO20	6	1.1718E-07	7.6248E-08	2.3387E-09	8.7801E-08	3.1725E-08	6.3312E-08	1.6968E-07	2.6329E-07	6.7653E-07	8.5384E-07	6.4019E-07	7.2243E-07	5.0490E-07	5.1395E-07	8.2372E-07	4.6143E-07	6.1809E-07	6.7722E-07	6.4039E-07	2.1215E-07	1.2301E-07	8.6533E-08	7.0795E-08	4.6548E-08
NO2	TKO20	7	1.1669E-07	7.6198E-08	2.3988E-09	8.8059E-08	3.1702E-08	6.2693E-08	1.6277E-07	2.5349E-07	6.5467E-07	8.2633E-07	6.3210E-07	7.3287E-07	4.9400E-07	5.0070E-07	8.0699E-07	4.6545E-07	6.0498E-07	6.4734E-07	6.3319E-07	2.1263E-07	1.2297E-07	8.6469E-08	7.1140E-08	4.6791E-08
NO2	TKO20	8	1.1679E-07	7.6137E-08	2.4680E-09	8.7809E-08	3.1827E-08	6.2846E-08	1.6485E-07	2.5801E-07	6.6186E-07	8.4180E-07	6.4742E-07	7.2790E-07	5.0900E-07	5.2092E-07	8.3558E-07	4.7146E-07	6.0867E-07	6.6121E-07	6.3683E-07	2.1163E-07	1.2336E-07	8.6619E-08	7.1903E-08	4.6958E-08
NO2	TKO20	9	1.2338E-07	7.9220E-08	2.9334E-09	9.4587E-08	3.5422E-08	6.5667E-08	1.7685E-07	2.7721E-07	7.2033E-07	9.0524E-07	6.9137E-07	7.7194E-07	5.3754E-07	5.4721E-07	8.8193E-07	5.0515E-07	6.6433E-07	7.3273E-07	7.1135E-07	2.3163E-07	1.3157E-07	9.2438E-08	7.4165E-08	5.0635E-08
NO2	TKO20	10	1.2352E-07	7.8908E-08	2.8485E-09	9.3821E-08	3.4896E-08	6.5285E-08	1.7726E-07	2.7798E-07	7.1630E-07	9.0084E-07	6.8018E-07	7.6330E-07	5.2457E-07	5.3345E-07	8.5709E-07	4.8545E-07	6.3737E-07	7.0368E-07	6.7682E-07	2.2291E-07	1.2707E-07	8.9513E-08	7.4150E-08	5.0565E-08
NO2	TKO20	11	1.2525E-07	7.9943E-08	3.2113E-09	9.6757E-08	3.6600E-08	6.6906E-08	1.8132E-07	2.8564E-07	7.3368E-07	9.1969E-07	6.9785E-07	7.8413E-07	5.4229E-07	5.5345E-07	8.9288E-07	5.0747E-07	6.7039E-07	7.3267E-07	7.1811E-07	2.3524E-07	1.3252E-07	9.3156E-08	7.4741E-08	5.1533E-08
NO2	TKO20	12	1.2814E-07	8.1007E-08	3.6149E-09	9.8965E-08	3.8114E-08	6.8122E-08	1.8584E-07	2.9403E-07	7.5700E-07	9.5068E-07	7.2638E-07	8.1278E-07	5.6122E-07	5.7195E-07	9.2193E-07	5.2456E-07	6.9144E-07	7.6184E-07	7.3498E-07	2.4172E-07	1.3575E-07	9.5371E-08	7.5874E-08	5.2768E-08
NO2	TKO21	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8095E-06	3.5964E-06	6.0823E-06	6.6294E-06	5.8668E-06	5.2314E-06	5.6307E-06	6.0079E-06	5.7194E-06	5.4300E-06	4.3217E-06	2.9578E-06	4.7189E-07	1.1773E-07	4.9221E-08	2.0343E-08	0.0000E+00
NO2	TKO21	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7526E-06	3.4970E-06	5.9430E-06	6.4253E-06	5.6370E-06	5.0486E-06	5.4376E-06	5.8048E-06	5.5865E-06	5.2639E-06	4.1455E-06	2.8294E-06	4.5925E-07	1.1417E-07	4.7362E-08	1.9493E-08	0.0000E+00
NO2	TKO21	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7716E-06	3.5392E-06	5.9953E-06	6.4884E-06	5.7041E-06	5.0821E-06	5.4555E-06	5.8678E-06	5.5912E-06	5.2837E-06	4.1877E-06	2.8726E-06	4.5656E-07	1.1389E-07	4.7247E-08	1.9469E-08	0.0000E+00
NO2	TKO21	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6913E-06	3.3959E-06	5.7725E-06	6.3088E-06	5.5990E-06	4.9879E-06	5.3260E-06	5.7128E-06	5.4470E-06	5.1586E-06	4.0804E-06	2.7919E-06	4.4812E-07	1.1122E-07	4.6141E-08	1.8927E-08	0.0000E+00
NO2	TKO21	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7211E-06	3.4036E-06	5.8175E-06	6.2808E-06	5.5417E-06	4.9122E-06	5.3102E-06	5.6956E-06	5.4557E-06	5.1413E-06	4.0906E-06	2.8032E-06	4.4320E-07	1.1034E-07	4.5854E-08	1.8929E-08	0.0000E+00
NO2	TKO21	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6680E-06	3.3318E-06	5.6626E-06	6.1071E-06	5.4114E-06	4.8558E-06	5.2030E-06	5.5908E-06	5.2419E-06	5.0534E-06	4.0363E-06	2.7056E-06	4.2797E-07	1.0675E-07	4.4186E-08	1.8136E-08	0.0000E+00
NO2	TKO21	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6087E-06	3.2384E-06	5.5088E-06	6.0473E-06	5.4735E-06	4.7672E-06	5.0890E-06	5.5012E-06	5.2811E-06	4.9663E-06	3.8952E-06	2.6798E-06	4.2899E-07	1.0664E-07	4.4137E-08	1.8343E-08	0.0000E+00
NO2	TKO21	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6359E-06	3.2691E-06	5.5945E-06	6.1596E-06	5.4434E-06	4.8895E-06	5.2631E-06	5.6551E-06	5.3390E-06	4.9906E-06	3.9613E-06	2.6927E-06	4.2680E-07	1.0715E-07	4.4242E-08	1.8750E-08	0.0000E+00
NO2	TKO21	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7519E-06	3.5164E-06	5.9480E-06	6.4800E-06	5.7040E-06	5.1218E-06	5.4895E-06	5.9024E-06	5.6645E-06	5.3615E-06	4.2980E-06	2.9577E-06	4.6982E-07	1.1778E-07	4.8663E-08	2.0027E-08	0.0000E+00
NO2	TKO21	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7559E-06	3.4992E-06	5.9239E-06	6.3983E-06	5.6544E-06	5.0165E-06	5.3711E-06	5.7703E-06	5.4750E-06	5.1832E-06	4.1612E-06	2.8351E-06	4.5099E-07	1.1201E-07	4.6467E-08	2.0002E-08	0.0000E+00
NO2	TKO21	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7968E-06	3.5687E-06	6.0248E-06	6.5222E-06	5.7744E-06	5.1587E-06	5.5412E-06	5.9609E-06	5.6848E-06	5.4001E-06	4.2948E-06	2.9801E-06	4.7645E-07	1.1854E-07	4.9111E-08	2.0257E-08	0.0000E+00
NO2	TKO21	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8403E-06	3.6617E-06	6.1886E-06	6.7144E-06	5.9354E-06	5.3051E-06	5.6951E-06	6.1118E-06	5.8448E-06	5.5333E-06	4.4280E-06	3.0386E-06	4.8854E-07	1.2167E-07	5.0474E-08	2.0744E-08	0.0000E+00
NO2	TKO22a	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9156E-07	2.4806E-06	2.6863E-06	2.6400E-06	2.3446E-06	2.4346E-06	2.6419E-06	2.6470E-06	2.8626E-06	2.0024E-06	1.5719E-06	7.7259E-07	3.0842E-07	1.3067E-07	5.1686E-08	0.0000E+00
NO2	TKO22a	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5358E-07	2.3806E-06	2.5416E-06	2.4593E-06	2.2015E-06	2.2885E-06	2.4853E-06	2.5383E-06	2.7083E-06	1.8597E-06	1.4527E-06	7.3596E-07	2.9184E-07	1.2197E-07	4.7904E-08	0.0000E+00
NO2	TKO22a	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6993E-07	2.4187E-06	2.5864E-06	2.5123E-06	2.2277E-06	2.3021E-06	2.5339E-06	2.5421E-06	2.7267E-06	1.8939E-06	1.4928E-06	7.2814E-07	2.9053E-07	1.2142E-07	4.7799E-08	0.0000E+00
NO2	TKO22a	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1482E-07	2.2588E-06	2.4586E-06	2.4295E-06	2.1537E-06	2.2045E-06	2.4143E-06	2.4245E-06	2.6105E-06	1.8067E-06	1.4180E-06	7.0371E-07	2.7818E-07	1.1626E-07	4.5389E-08	0.0000E+00
NO2	TKO22a	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1778E-07	2.2909E-06	2.4391E-06	2.3844E-06	2.0944E-06	2.1925E-06	2.4008E-06	2.4318E-06	2.5943E-06	1.8150E-06	1.4285E-06	6.8958E-07	2.7406E-07	1.1490E-07	4.5408E-08	0.0000E+00
NO2	TKO22a	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.9007E-07	2.1798E-06	2.3150E-06	2.2816E-06	2.0503E-06	2.1116E-06	2.3200E-06	2.2571E-06	2.5126E-06	1.7709E-06	1.3379E-06	6.4527E-07	2.5736E-07	1.0709E-07	4.1870E-08	0.0000E+00
NO2	TKO22a	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5417E-07	2.0693E-06	2.2730E-06	2.3305E-06	1.9808E-06	2.0254E-06	2.2507E-06	2.2893E-06	2.4314E-06	1.6560E-06	1.3138E-06	6.4820E-07	2.5686E-07	1.0686E-07	4.2786E-08	0.0000E+00
NO2	TKO22a	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6604E-07	2.1308E-06	2.3528E-06	2.3069E-06	2.0765E-06	2.1572E-06	2.3694E-06	2.3364E-06	2.4543E-06	1.7100E-06	1.3259E-06	6.4186E-07	2.5923E-07	1.0735E-07	4.4605E-08	0.0000E+00
NO2	TKO22a	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6135E-07	2.3847E-06	2.5806E-06	2.5127E-06	2.2593E-06	2.3285E-06	2.5610E-06	2.6026E-06	2.7994E-06	1.9842E-06	1.5725E-06	7.6694E-07	3.0871E-07	1.2808E-07	5.0306E-08	0.0000E+00
NO2	TKO22a	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5465E-07	2.3676E-06	2.5225E-06	2.4733E-06	2.1766E-06	2.2385E-06	2.4585E-06	2.4475E-06	2.6332E-06	1.8725E-06	1.4583E-06	7.1211E-07	2.8184E-07	1.1779E-07	5.0188E-08	0.0000E+00
NO2	TKO22a	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.8134E-07	2.4397E-06	2.6103E-06	2.5679E-06	2.2879E-06	2.3670E-06	2.6060E-06	2.6190E-06	2.8348E-06	1.9810E-06	1.5929E-06	7.8587E-07	3.1217E-07	1.3016E-07	5.1314E-08	0.0000E+00
NO2	TKO22a	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1671E-07	2.5565E-06	2.7468E-06	2.6942E-06	2.4027E-06	2.4835E-06	2.7228E-06	2.7497E-06	2.9584E-06	2.0888E-06	1.6471E-06	8.2078E-07	3.2674E-07	1.3655E-07	5.3470E-08	0.0000E+00
NO2	TKO22b	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9156E-07	2.4846E-06	2.6863E-06	2.6400E-06	2.3446E-06	2.4301E-06	2.6315E-06	2.6470E-06	2.8626E-06	2.0024E-06	1.5719E-06	7.7259E-07	3.0842E-07	1.2987E-07	5.1686E-08	0.0000E+00
NO2	TKO22b	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5358E-07	2.3806E-06	2.5468E-06	2.4815E-06	2.2015E-06	2.2885E-06	2.4853E-06	2.5163E-06	2.6755E-06	1.8597E-06	1.4527E-06	7.2814E-07	2.8853E-07	1.2197E-07	4.7904E-08	0.0000E+00
NO2	TKO22b	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6993E-07	2.4187E-06	2.5864E-06	2.5123E-06	2.2277E-06	2.3021E-06	2.5284E-06	2.5421E-06	2.7206E-06	1.8847E-06	1.4771E-06	7.2814E-07	2.9053E-07	1.2142E-07	4.7688E-08	0.0000E+00
NO2	TKO22b	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1290E-07	2.2467E-06	2.4457E-06	2.4232E-06	2.1188E-06	2.1921E-06	2.4076E-06	2.4108E-06	2.5958E-06	1.8015E-06	1.4140E-06	7.0166E-07	2.7655E-07	1.1592E-07	4.5389E-08	0.0000E+00
NO2	TKO22b	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1561E-07	2.2841E-06	2.4391E-06	2.3565E-06	2.0876E-06	2.1925E-06	2.4008E-06	2.4245E-06	2.5943E-06	1.8150E-06	1.4285E-06	6.8958E-07	2.7492E-07	1.1490E-07	4.5408E-08	0.0000E+00
NO2	TKO22b	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.9007E-07	2.1798E-06	2.3063E-06	2.2631E-06	2.0330E-06	2.1213E-06	2.3001E-06	2.2829E-06	2.4821E-06	1.7709E-06	1.3319E-06	6.4228E-07	2.5736E-07	1.0709E-07	4.1870E-08	0.0000E+00
NO2	TKO22b	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5417E-07	2.0508E-06	2.2529E-06	2.2960E-06	1.9459E-06	1.9967E-06	2.2308E-06	2.2800E-06	2.4314E-06	1.6560E-06	1.3079E-06	6.4820E-07	2.5686E-07	1.0686E-07	4.1959E-08	0.0000E+00
NO2	TKO22b	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6604E-07	2.1209E-06	2.3528E-06	2.2964E-06	2.0503E-06	2.1318E-06	2.3298E-06	2.3269E-06	2.4543E-06	1.7100E-06	1.3259E-06	6.4186E-07	2.5923E-07	1.0518E-07	4.4434E-08	0.0000E+00
NO2	TKO22b	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5563E-07	2.3847E-06	2.5806E-06	2.5225E-06	2.2593E-06	2.3285E-06	2.5610E-06	2.6026E-06	2.8103E-06	1.9766E-06	1.5725E-06	7.6694E-07	3.0673E-07	1.2808E-07	5.0306E-08	0.0000E+00
NO2	TKO22b	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5465E-07	2.3676E-06	2.5225E-06	2.4651E-06	2.1693E-06	2.2225E-06	2.4410E-06	2.4387E-06	2.6141E-06	1.8599E-06	1.4533E-06	7.0966E-07	2.8184E-07	1.1779E-07	4.9981E-08	0.0000E+00
NO2	TKO22b	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7977E-07	2.4344E-06	2.6103E-06	2.5679E-06	2.2879E-06	2.3670E-06	2.6060E-06	2.6190E-06	2.8279E-06	1.9810E-06	1.5929E-06	7.8150E-07	3.1287E-07	1.3016E-07	5.1314E-08	0.0000E+00
NO2	TKO22b	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1559E-07	2.5488E-06	2.7386E-06	2.6897E-06	2.3986E-06	2.4835E-06	2.7228E-06	2.7448E-06	2.9584E-06	2.0888E-06	1.6471E-06	8.2078E-07	3.2674E-07	1.3676E-07	5.3556E-08	0.0000E+00
NO2	TKO22c	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9156E-07	2.4846E-06	2.6863E-06	2.6400E-06	2.3446E-06	2.4301E-06	2.6315E-06	2.6470E-06	2.8626E-06	2.0024E-06	1.5719E-06	7.7259E-07	3.0842E-07	1.2987E-07	5.1686E-08	0.0000E+00
NO2	TKO22c	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5358E-07	2.3806E-06	2.5468E-06	2.4815E-06	2.2015E-06	2.2885E-06	2.4853E-06	2.5163E-06	2.6755E-06	1.8597E-06	1.4527E-06	7.2814E-07	2.8853E-07	1.2197E-07	4.7904E-08	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	TKO22c	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6993E-07	2.4187E-06	2.5864E-06	2.5123E-06	2.2277E-06	2.3021E-06	2.5284E-06	2.5421E-06	2.7206E-06	1.8847E-06	1.4771E-06	7.2814E-07	2.9053E-07	1.2142E-07	4.7688E-08	0.0000E+00
NO2	TKO22c	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1290E-07	2.2467E-06	2.4457E-06	2.4232E-06	2.1188E-06	2.1921E-06	2.4076E-06	2.4108E-06	2.5958E-06	1.8015E-06	1.4140E-06	7.0166E-07	2.7655E-07	1.1592E-07	4.5389E-08	0.0000E+00
NO2	TKO22c	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1561E-07	2.2841E-06	2.4391E-06	2.3565E-06	2.0876E-06	2.1925E-06	2.4008E-06	2.4245E-06	2.5943E-06	1.8150E-06	1.4285E-06	6.8958E-07	2.7492E-07	1.1490E-07	4.5408E-08	0.0000E+00
NO2	TKO22c	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.9007E-07	2.1798E-06	2.3063E-06	2.2631E-06	2.0330E-06	2.1213E-06	2.3001E-06	2.2829E-06	2.4821E-06	1.7709E-06	1.3319E-06	6.4228E-07	2.5736E-07	1.0709E-07	4.1870E-08	0.0000E+00
NO2	TKO22c	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5417E-07	2.0508E-06	2.2529E-06	2.2960E-06	1.9459E-06	1.9967E-06	2.2308E-06	2.2800E-06	2.4314E-06	1.6560E-06	1.3079E-06	6.4820E-07	2.5686E-07	1.0686E-07	4.1959E-08	0.0000E+00
NO2	TKO22c	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6604E-07	2.1209E-06	2.3528E-06	2.2964E-06	2.0503E-06	2.1318E-06	2.3298E-06	2.3269E-06	2.4543E-06	1.7100E-06	1.3259E-06	6.4186E-07	2.5923E-07	1.0518E-07	4.4434E-08	0.0000E+00
NO2	TKO22c	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5563E-07	2.3847E-06	2.5806E-06	2.5225E-06	2.2593E-06	2.3285E-06	2.5610E-06	2.6026E-06	2.8103E-06	1.9766E-06	1.5725E-06	7.6694E-07	3.0673E-07	1.2808E-07	5.0306E-08	0.0000E+00
NO2	TKO22c	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5465E-07	2.3676E-06	2.5225E-06	2.4651E-06	2.1693E-06	2.2225E-06	2.4410E-06	2.4387E-06	2.6141E-06	1.8599E-06	1.4533E-06	7.0966E-07	2.8184E-07	1.1779E-07	4.9981E-08	0.0000E+00
NO2	TKO22c	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7977E-07	2.4344E-06	2.6103E-06	2.5679E-06	2.2879E-06	2.3670E-06	2.6060E-06	2.6190E-06	2.8279E-06	1.9810E-06	1.5929E-06	7.8150E-07	3.1287E-07	1.3016E-07	5.1314E-08	0.0000E+00
NO2	TKO22c	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1559E-07	2.5488E-06	2.7386E-06	2.6897E-06	2.3986E-06	2.4835E-06	2.7228E-06	2.7448E-06	2.9584E-06	2.0888E-06	1.6471E-06	8.2078E-07	3.2674E-07	1.3676E-07	5.3556E-08	0.0000E+00
NO2	TKO22d	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9156E-07	2.4846E-06	2.6863E-06	2.6400E-06	2.3446E-06	2.4301E-06	2.6315E-06	2.6470E-06	2.8626E-06	2.0024E-06	1.5719E-06	7.7259E-07	3.0842E-07	1.2987E-07	5.1686E-08	0.0000E+00
NO2	TKO22d	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5358E-07	2.3806E-06	2.5468E-06	2.4815E-06	2.2015E-06	2.2885E-06	2.4853E-06	2.5163E-06	2.6755E-06	1.8597E-06	1.4527E-06	7.2814E-07	2.8853E-07	1.2197E-07	4.7904E-08	0.0000E+00
NO2	TKO22d	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6993E-07	2.4187E-06	2.5864E-06	2.5123E-06	2.2277E-06	2.3021E-06	2.5284E-06	2.5421E-06	2.7206E-06	1.8847E-06	1.4771E-06	7.2814E-07	2.9053E-07	1.2142E-07	4.7688E-08	0.0000E+00
NO2	TKO22d	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1290E-07	2.2467E-06	2.4457E-06	2.4232E-06	2.1188E-06	2.1921E-06	2.4076E-06	2.4108E-06	2.5958E-06	1.8015E-06	1.4140E-06	7.0166E-07	2.7655E-07	1.1592E-07	4.5389E-08	0.0000E+00
NO2	TKO22d	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1561E-07	2.2841E-06	2.4391E-06	2.3565E-06	2.0876E-06	2.1925E-06	2.4008E-06	2.4245E-06	2.5943E-06	1.8150E-06	1.4285E-06	6.8958E-07	2.7492E-07	1.1490E-07	4.5408E-08	0.0000E+00
NO2	TKO22d	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.9007E-07	2.1798E-06	2.3063E-06	2.2631E-06	2.0330E-06	2.1213E-06	2.3001E-06	2.2829E-06	2.4821E-06	1.7709E-06	1.3319E-06	6.4228E-07	2.5736E-07	1.0709E-07	4.1870E-08	0.0000E+00
NO2	TKO22d	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5417E-07	2.0508E-06	2.2529E-06	2.2960E-06	1.9459E-06	1.9967E-06	2.2308E-06	2.2800E-06	2.4314E-06	1.6560E-06	1.3079E-06	6.4820E-07	2.5686E-07	1.0686E-07	4.1959E-08	0.0000E+00
NO2	TKO22d	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6604E-07	2.1209E-06	2.3528E-06	2.2964E-06	2.0503E-06	2.1318E-06	2.3298E-06	2.3269E-06	2.4543E-06	1.7100E-06	1.3259E-06	6.4186E-07	2.5923E-07	1.0518E-07	4.4434E-08	0.0000E+00
NO2	TKO22d	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5563E-07	2.3847E-06	2.5806E-06	2.5225E-06	2.2593E-06	2.3285E-06	2.5610E-06	2.6026E-06	2.8103E-06	1.9766E-06	1.5725E-06	7.6694E-07	3.0673E-07	1.2808E-07	5.0306E-08	0.0000E+00
NO2	TKO22d	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5465E-07	2.3676E-06	2.5225E-06	2.4651E-06	2.1693E-06	2.2225E-06	2.4410E-06	2.4387E-06	2.6141E-06	1.8599E-06	1.4533E-06	7.0966E-07	2.8184E-07	1.1779E-07	4.9981E-08	0.0000E+00
NO2	TKO22d	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7977E-07	2.4344E-06	2.6103E-06	2.5679E-06	2.2879E-06	2.3670E-06	2.6060E-06	2.6190E-06	2.8279E-06	1.9810E-06	1.5929E-06	7.8150E-07	3.1287E-07	1.3016E-07	5.1314E-08	0.0000E+00
NO2	TKO22d	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1559E-07	2.5488E-06	2.7386E-06	2.6897E-06	2.3986E-06	2.4835E-06	2.7228E-06	2.7448E-06	2.9584E-06	2.0888E-06	1.6471E-06	8.2078E-07	3.2674E-07	1.3676E-07	5.3556E-08	0.0000E+00
NO2	TKO22e	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9156E-07	2.4846E-06	2.6863E-06	2.6400E-06	2.3446E-06	2.4301E-06	2.6315E-06	2.6470E-06	2.8626E-06	2.0024E-06	1.5719E-06	7.7259E-07	3.0842E-07	1.2987E-07	5.1686E-08	0.0000E+00
NO2	TKO22e	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5358E-07	2.3806E-06	2.5468E-06	2.4815E-06	2.2015E-06	2.2885E-06	2.4853E-06	2.5163E-06	2.6755E-06	1.8597E-06	1.4527E-06	7.2814E-07	2.8853E-07	1.2197E-07	4.7904E-08	0.0000E+00
NO2	TKO22e	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6993E-07	2.4187E-06	2.5864E-06	2.5123E-06	2.2277E-06	2.3021E-06	2.5284E-06	2.5421E-06	2.7206E-06	1.8847E-06	1.4771E-06	7.2814E-07	2.9053E-07	1.2142E-07	4.7688E-08	0.0000E+00
NO2	TKO22e	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1290E-07	2.2467E-06	2.4457E-06	2.4232E-06	2.1188E-06	2.1921E-06	2.4076E-06	2.4108E-06	2.5958E-06	1.8015E-06	1.4140E-06	7.0166E-07	2.7655E-07	1.1592E-07	4.5389E-08	0.0000E+00
NO2	TKO22e	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1561E-07	2.2841E-06	2.4391E-06	2.3565E-06	2.0876E-06	2.1925E-06	2.4008E-06	2.4245E-06	2.5943E-06	1.8150E-06	1.4285E-06	6.8958E-07	2.7492E-07	1.1490E-07	4.5408E-08	0.0000E+00
NO2	TKO22e	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.9007E-07	2.1798E-06	2.3063E-06	2.2631E-06	2.0330E-06	2.1213E-06	2.3001E-06	2.2829E-06	2.4821E-06	1.7709E-06	1.3319E-06	6.4228E-07	2.5736E-07	1.0709E-07	4.1870E-08	0.0000E+00
NO2	TKO22e	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5417E-07	2.0508E-06	2.2529E-06	2.2960E-06	1.9459E-06	1.9967E-06	2.2308E-06	2.2800E-06	2.4314E-06	1.6560E-06	1.3079E-06	6.4820E-07	2.5686E-07	1.0686E-07	4.1959E-08	0.0000E+00
NO2	TKO22e	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6604E-07	2.1209E-06	2.3528E-06	2.2964E-06	2.0503E-06	2.1318E-06	2.3298E-06	2.3269E-06	2.4543E-06	1.7100E-06	1.3259E-06	6.4186E-07	2.5923E-07	1.0518E-07	4.4434E-08	0.0000E+00
NO2	TKO22e	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5563E-07	2.3847E-06	2.5806E-06	2.5225E-06	2.2593E-06	2.3285E-06	2.5610E-06	2.6026E-06	2.8103E-06	1.9766E-06	1.5725E-06	7.6694E-07	3.0673E-07	1.2808E-07	5.0306E-08	0.0000E+00
NO2	TKO22e	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5465E-07	2.3676E-06	2.5225E-06	2.4651E-06	2.1693E-06	2.2225E-06	2.4410E-06	2.4387E-06	2.6141E-06	1.8599E-06	1.4533E-06	7.0966E-07	2.8184E-07	1.1779E-07	4.9981E-08	0.0000E+00
NO2	TKO22e	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7977E-07	2.4344E-06	2.6103E-06	2.5679E-06	2.2879E-06	2.3670E-06	2.6060E-06	2.6190E-06	2.8279E-06	1.9810E-06	1.5929E-06	7.8150E-07	3.1287E-07	1.3016E-07	5.1314E-08	0.0000E+00
NO2	TKO22e	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1559E-07	2.5488E-06	2.7386E-06	2.6897E-06	2.3986E-06	2.4835E-06	2.7228E-06	2.7448E-06	2.9584E-06	2.0888E-06	1.6471E-06	8.2078E-07	3.2674E-07	1.3676E-07	5.3556E-08	0.0000E+00
NO2	TKO22f	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9156E-07	2.4846E-06	2.6863E-06	2.6400E-06	2.3446E-06	2.4301E-06	2.6315E-06	2.6470E-06	2.8626E-06	2.0024E-06	1.5719E-06	7.7259E-07	3.0842E-07	1.2987E-07	5.1686E-08	0.0000E+00
NO2	TKO22f	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5358E-07	2.3806E-06	2.5468E-06	2.4815E-06	2.2015E-06	2.2885E-06	2.4853E-06	2.5163E-06	2.6755E-06	1.8597E-06	1.4527E-06	7.2814E-07	2.8853E-07	1.2197E-07	4.7904E-08	0.0000E+00
NO2	TKO22f	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6993E-07	2.4187E-06	2.5864E-06	2.5123E-06	2.2277E-06	2.3021E-06	2.5284E-06	2.5421E-06	2.7206E-06	1.8847E-06	1.4771E-06	7.2814E-07	2.9053E-07	1.2142E-07	4.7688E-08	0.0000E+00
NO2	TKO22f	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1290E-07	2.2467E-06	2.4457E-06	2.4232E-06	2.1188E-06	2.1921E-06	2.4076E-06	2.4108E-06	2.5958E-06	1.8015E-06	1.4140E-06	7.0166E-07	2.7655E-07	1.1592E-07	4.5389E-08	0.0000E+00
NO2	TKO22f	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1561E-07	2.2841E-06	2.4391E-06	2.3565E-06	2.0876E-06	2.1925E-06	2.4008E-06	2.4245E-06	2.5943E-06	1.8150E-06	1.4285E-06	6.8958E-07	2.7492E-07	1.1490E-07	4.5408E-08	0.0000E+00
NO2	TKO22f	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.9007E-07	2.1798E-06	2.3063E-06	2.2631E-06	2.0330E-06	2.1213E-06	2.3001E-06	2.2829E-06	2.4821E-06	1.7709E-06	1.3319E-06	6.4228E-07	2.5736E-07	1.0709E-07	4.1870E-08	0.0000E+00
NO2	TKO22f	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5417E-07	2.0508E-06	2.2529E-06	2.2960E-06	1.9459E-06	1.9967E-06	2.2308E-06	2.2800E-06	2.4314E-06	1.6560E-06	1.3079E-06	6.4820E-07	2.5686E-07	1.0686E-07	4.1959E-08	0.0000E+00
NO2	TKO22f	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6604E-07	2.1209E-06	2.3528E-06	2.2964E-06	2.0503E-06	2.1318E-06	2.3298E-06	2.3269E-06	2.4543E-06	1.7100E-06	1.3259E-06	6.4186E-07	2.5923E-07	1.0518E-07	4.4434E-08	0.0000E+00
NO2	TKO22f	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5563E-07	2.3847E-06	2.5806E-06	2.5225E-06	2.2593E-06	2.3285E-06	2.5610E-06	2.6026E-06	2.8103E-06	1.9766E-06	1.5725E-06	7.6694E-07	3.0673E-07	1.2808E-07	5.0306E-08	0.0000E+00
NO2	TKO22f	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5465E-07	2.3676E-06	2.5225E-06	2.4651E-06	2.1693E-06	2.2225E-06	2.4410E-06	2.4387E-06	2.6141E-06	1.8599E-06	1.4533E-06	7.0966E-07	2.8184E-07	1.1779E-07	4.9981E-08	0.0000E+00
NO2	TKO22f	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7977E-07	2.4344E-06	2.6103E-06	2.5679E-06	2.2879E-06	2.3670E-06	2.6060E-06	2.6190E-06	2.8279E-06	1.9810E-06	1.5929E-06	7.8150E-07	3.1287E-07	1.3016E-07	5.1314E-08	0.0000E+00
NO2	TKO22f	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1559E-07	2.5488E-06	2.7386E-06	2.6897E-06	2.3986E-06	2.4835E-06	2.7228E-06	2.7448E-06	2.9584E-06	2.0888E-06	1.6471E-06	8.2078E-07	3.2674E-07	1.3676E-07	5.3556E-08	0.0000E+00
NO2	TKO22g	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9156E-07	2.4846E-06	2.6863E-06	2.6400E-06	2.3446E-06	2.4301E-06	2.6315E-06	2.6470E-06	2.8626E-06	2.0024E-06	1.5719E-06	7.7259E-07	3.0842E-07	1.2987E-07	5.1686E-08	0.0000E+00
NO2	TKO22g	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5358E-07	2.3806E-06	2.5468E-06	2.4815E-06	2.2015E-06	2.2885E-06	2.4853E-06	2.5163E-06	2.6755E-06	1.8597E-06	1.4527E-06	7.2814E-07	2.8853E-07	1.2197E-07	4.7904E-08	0.0000E+00
NO2	TKO22g	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6993E-07	2.4187E-06	2.5864E-06	2.5123E-06	2.2277E-06	2.3021E-06	2.5284E-06	2.5421E-06	2.7206E-06	1.8847E-06	1.4771E-06	7.2814E-07	2.9053E-07	1.2142E-07	4.7688E-08	0.0000E+00
NO2	TKO22g	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1290E-07	2.2467E-06	2.4457E-06	2.4232E-06	2.1188E-06	2.1921E-06	2.4076E-06	2.4108E-06	2.5958E-06	1.8015E-06	1.4140E-06	7.0166E-07	2.7655E-07	1.1592E-07	4.5389E-08	0.0000E+00
NO2	TKO22g	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1561E-07	2.2841E-06	2.4391E-06	2.3565E-06	2.0876E-06	2.1925E-06	2.4008E-06	2.4245E-06	2.5943E-06	1.8150E-06	1.4285E-06	6.8958E-07	2.7492E-07	1.1490E-07	4.5408E-08	0.0000E+00
NO2	TKO22g	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.9007E-07	2.1798E-06	2.3063E-06	2.2631E-06	2.0330E-06	2.1213E-06	2.3001E-06	2.2829E-06	2.4821E-06	1.7709E-06	1.3319E-06	6.4228E-07	2.5736E-07	1.0709E-07	4.1870E-08	0.0000E+00
NO2	TKO22g	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5417E-07	2.0508E-06	2.2529E-06	2.2960E-06	1.9459E-06	1.9967E-06	2.2308E-06	2.2800E-06	2.4314E-06	1.6560E-06	1.3079E-06	6.4820E-07	2.5686E-07	1.0686E-07	4.1959E-08	0.0000E+00
NO2	TKO22g	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6604E-07	2.1209E-06	2.3528E-06	2.2964E-06	2.0503E-06	2.1318E-06	2.3298E-06	2.3269E-06	2.4543E-06	1.7100E-06	1.3259E-06	6.4186E-07	2.5923E-07	1.0518E-07	4.4434E-08	0.0000E+00
NO2	TKO22g	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5563E-07	2.3847E-06	2.5806E-06	2.5225E-06	2.2593E-06	2.3285E-06	2.5610E-06	2.6026E-06	2.8103E-06	1.9766E-06	1.5725E-06	7.6694E-07	3.0673E-07	1.2808E-07	5.0306E-08	0.0000E+00
NO2	TKO22g	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5465E-07	2.3676E-06	2.5225E-06	2.4651E-06	2.1693E-06	2.2225E-06	2.4410E-06	2.4387E-06	2.6141E-06	1.8599E-06	1.4533E-06	7.0966E-07	2.8184E-07	1.1779E-07	4.9981E-08	0.0000E+00
NO2	TKO22g	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7977E-07	2.4344E-06	2.6103E-06	2.5679E-06	2.2879E-06	2.3670E-06	2.6060E-06	2.6190E-06	2.8279E-06	1.9810E-06	1.5929E-06	7.8150E-07	3.1287E-07	1.3016E-07	5.1314E-08	0.0000E+00
NO2	TKO22g	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1559E-07	2.5488E-06	2.7386E-06	2.6897E-06	2.3986E-06	2.4835E-06	2.7228E-06	2.7448E-06	2.9584E-06	2.0888E-06	1.6471E-06	8.2078E-07	3.2674E-07	1.3676E-07	5.3556E-08	0.0000E+00
NO2	TKO22h	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9156E-07	2.4806E-06	2.6863E-06	2.6400E-06	2.3446E-06	2.4346E-06	2.6419E-06	2.6470E-06	2.8626E-06	2.0024E-06	1.5719E-06	7.7259E-07	3.0842E-07	1.3067E-07	5.1686E-08	0.0000E+00
NO2	TKO22h	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5358E-07	2.3806E-06	2.5416E-06	2.4593E-06	2.2015E-06	2.2885E-06	2.4853E-06	2.5383E-06	2.7083E-06	1.8597E-06	1.4527E-06	7.3596E-07	2.9184E-07	1.2197E-07	4.7904E-08	0.0000E+00
NO2	TKO22h	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6993E-07	2.4187E-06	2.5864E-06	2.5123E-06	2.2277E-06	2.3021E-06	2.5339E-06	2.5421E-06	2.7267E-06	1.8939E-06	1.4928E-06	7.2814E-07	2.9053E-07	1.2142E-07	4.7799E-08	0.0000E+00
NO2	TKO22h	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1482E-07	2.2588E-06	2.4586E-06	2.4295E-06	2.1537E-06	2.2045E-06	2.4143E-06	2.4245E-06	2.6105E-06	1.8067E-06	1.4180E-06	7.0371E-07	2.7818E-07	1.1626E-07	4.5389E-08	0.0000E+00
NO2	TKO22h	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1778E-07	2.2909E-06	2.4391E-06	2.3844E-06	2.0944E-06	2.1925E-06	2.4008E-06	2.4318E-06	2.5943E-06	1.8150E-06	1.4285E-06	6.8958E-07	2.7406E-07	1.1490E-07	4.5408E-08	0.0000E+00
NO2	TKO22h	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.9007E-07	2.1798E-06	2.3150E-06	2.2816E-06	2.0503E-06	2.1116E-06	2.3200E-06	2.2571E-06	2.5126E-06	1.7709E-06	1.3379E-06	6.4527E-07	2.5736E-07	1.0709E-07	4.1870E-08	0.0000E+00
NO2	TKO22h	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5417E-07	2.0693E-06	2.2730E-06	2.3305E-06	1.9808E-06	2.0254E-06	2.2507E-06	2.2893E-06	2.4314E-06	1.6560E-06	1.3138E-06	6.4820E-07	2.5686E-07	1.0686E-07	4.2786E-08	0.0000E+00
NO2	TKO22h	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6604E-07	2.1308E-06	2.3528E-06	2.3069E-06	2.0765E-06	2.1572E-06	2.3694E-06	2.3364E-06	2.4543E-06	1.7100E-06	1.3259E-06	6.4186E-07	2.5923E-07	1.0735E-07	4.4605E-08	0.0000E+00
NO2	TKO22h	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6135E-07	2.3847E-06	2.5806E-06	2.5127E-06	2.2593E-06	2.3285E-06	2.5610E-06	2.6026E-06	2.7994E-06	1.9842E-06	1.5725E-06	7.6694E-07	3.0871E-07	1.2808E-07	5.0306E-08	0.0000E+00
NO2	TKO22h	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5465E-07	2.3676E-06	2.5225E-06	2.4733E-06	2.1766E-06	2.2385E-06	2.4585E-06	2.4475E-06	2.6332E-06	1.8725E-06	1.4583E-06	7.1211E-07	2.8184E-07	1.1779E-07	5.0188E-08	0.0000E+00
NO2	TKO22h	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.8134E-07	2.4397E-06	2.6103E-06	2.5679E-06	2.2879E-06	2.3670E-06	2.6060E-06	2.6190E-06	2.8348E-06	1.9810E-06	1.5929E-06	7.8587E-07	3.1217E-07	1.3016E-07	5.1314E-08	0.0000E+00
NO2	TKO22h	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1671E-07	2.5565E-06	2.7468E-06	2.6942E-06	2.4027E-06	2.4835E-06	2.7228E-06	2.7497E-06	2.9584E-06	2.0888E-06	1.6471E-06	8.2078E-07	3.2674E-07	1.3655E-07	5.3470E-08	0.0000E+00
NO2	TKO23a	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5082E-06	2.4962E-06	2.4954E-06	2.5155E-06	2.5214E-06	2.5195E-06	2.5287E-06	2.4986E-06	2.4790E-06	2.4828E-06	2.4599E-06	2.4459E-06	9.9685E-07	9.9500E-07	1.0086E-06	1.0157E-06	0.0000E+00
NO2	TKO23a	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3724E-06	2.3771E-06	2.3956E-06	2.3809E-06	2.3499E-06	2.3666E-06	2.3779E-06	2.3514E-06	2.3779E-06	2.3499E-06	2.2856E-06	2.2617E-06	9.4985E-07	9.4185E-07	9.4185E-07	9.4185E-07	0.0000E+00
NO2	TKO23a	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4181E-06	2.4285E-06	2.4337E-06	2.4226E-06	2.4003E-06	2.3946E-06	2.3918E-06	2.3971E-06	2.3813E-06	2.3657E-06	2.3273E-06	2.3235E-06	9.3985E-07	9.3769E-07	9.3769E-07	9.3985E-07	0.0000E+00
NO2	TKO23a	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2258E-06	2.2557E-06	2.2737E-06	2.3036E-06	2.3215E-06	2.3155E-06	2.2910E-06	2.2846E-06	2.2718E-06	2.2654E-06	2.2209E-06	2.2081E-06	9.0854E-07	8.9808E-07	8.9808E-07	8.9285E-07	0.0000E+00
NO2	TKO23a	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2974E-06	2.2651E-06	2.3061E-06	2.2856E-06	2.2788E-06	2.2523E-06	2.2788E-06	2.2718E-06	2.2788E-06	2.2515E-06	2.2310E-06	2.2243E-06	8.9046E-07	8.8485E-07	8.8762E-07	8.9323E-07	0.0000E+00
NO2	TKO23a	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1701E-06	2.1782E-06	2.1947E-06	2.1699E-06	2.1810E-06	2.2053E-06	2.1951E-06	2.1959E-06	2.1159E-06	2.1810E-06	2.1772E-06	2.0842E-06	8.3354E-07	8.3131E-07	8.2769E-07	8.2415E-07	0.0000E+00
NO2	TKO23a	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0281E-06	2.0654E-06	2.0842E-06	2.1306E-06	2.2276E-06	2.1306E-06	2.1060E-06	2.1306E-06	2.1460E-06	2.1109E-06	2.0368E-06	2.0468E-06	8.3731E-07	8.2969E-07	8.2592E-07	8.4208E-07	0.0000E+00
NO2	TKO23a	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0934E-06	2.1028E-06	2.1457E-06	2.2053E-06	2.2051E-06	2.2331E-06	2.2423E-06	2.2425E-06	2.1898E-06	2.1306E-06	2.1028E-06	2.0654E-06	8.2915E-07	8.3731E-07	8.2969E-07	8.7762E-07	0.0000E+00
NO2	TKO23a	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3711E-06	2.4019E-06	2.4001E-06	2.4176E-06	2.4008E-06	2.4288E-06	2.4194E-06	2.4230E-06	2.4381E-06	2.4288E-06	2.4381E-06	2.4475E-06	9.8977E-07	9.9615E-07	9.8900E-07	9.8900E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	TKO23a	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3803E-06	2.3809E-06	2.3828E-06	2.3634E-06	2.3634E-06	2.3403E-06	2.3264E-06	2.3264E-06	2.2935E-06	2.2852E-06	2.3015E-06	2.2705E-06	9.1938E-07	9.0992E-07	9.0992E-07	9.8669E-07	0.0000E+00
NO2	TKO23a	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4781E-06	2.4644E-06	2.4548E-06	2.4450E-06	2.4531E-06	2.4591E-06	2.4591E-06	2.4651E-06	2.4531E-06	2.4591E-06	2.4339E-06	2.4787E-06	1.0140E-06	1.0072E-06	1.0048E-06	1.0085E-06	0.0000E+00
NO2	TKO23a	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5817E-06	2.5749E-06	2.5714E-06	2.5717E-06	2.5729E-06	2.5815E-06	2.5793E-06	2.5748E-06	2.5748E-06	2.5655E-06	2.5655E-06	2.5625E-06	1.0587E-06	1.0538E-06	1.0538E-06	1.0505E-06	0.0000E+00
NO2	TKO23b	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5082E-06	2.4962E-06	2.4954E-06	2.5155E-06	2.5214E-06	2.5195E-06	2.5287E-06	2.4986E-06	2.4790E-06	2.4828E-06	2.4599E-06	2.4459E-06	9.9685E-07	9.9500E-07	1.0086E-06	1.0157E-06	0.0000E+00
NO2	TKO23b	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3724E-06	2.3771E-06	2.3956E-06	2.3809E-06	2.3499E-06	2.3666E-06	2.3779E-06	2.3514E-06	2.3779E-06	2.3499E-06	2.2856E-06	2.2617E-06	9.4985E-07	9.4185E-07	9.4185E-07	9.4185E-07	0.0000E+00
NO2	TKO23b	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4181E-06	2.4285E-06	2.4337E-06	2.4226E-06	2.4003E-06	2.3946E-06	2.3918E-06	2.3971E-06	2.3813E-06	2.3657E-06	2.3273E-06	2.3235E-06	9.3985E-07	9.3769E-07	9.3769E-07	9.3985E-07	0.0000E+00
NO2	TKO23b	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2258E-06	2.2557E-06	2.2737E-06	2.3036E-06	2.3215E-06	2.3155E-06	2.2910E-06	2.2846E-06	2.2718E-06	2.2654E-06	2.2209E-06	2.2081E-06	9.0854E-07	8.9808E-07	8.9808E-07	8.9285E-07	0.0000E+00
NO2	TKO23b	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2974E-06	2.2651E-06	2.3061E-06	2.2856E-06	2.2788E-06	2.2523E-06	2.2788E-06	2.2718E-06	2.2788E-06	2.2515E-06	2.2310E-06	2.2243E-06	8.9046E-07	8.8485E-07	8.8762E-07	8.9323E-07	0.0000E+00
NO2	TKO23b	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1701E-06	2.1782E-06	2.1947E-06	2.1699E-06	2.1810E-06	2.2053E-06	2.1951E-06	2.1959E-06	2.1159E-06	2.1810E-06	2.1772E-06	2.0842E-06	8.3354E-07	8.3131E-07	8.2769E-07	8.2415E-07	0.0000E+00
NO2	TKO23b	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0281E-06	2.0654E-06	2.0842E-06	2.1306E-06	2.2276E-06	2.1306E-06	2.1060E-06	2.1306E-06	2.1460E-06	2.1109E-06	2.0368E-06	2.0468E-06	8.3731E-07	8.2969E-07	8.2592E-07	8.4208E-07	0.0000E+00
NO2	TKO23b	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0934E-06	2.1028E-06	2.1457E-06	2.2053E-06	2.2051E-06	2.2331E-06	2.2423E-06	2.2425E-06	2.1898E-06	2.1306E-06	2.1028E-06	2.0654E-06	8.2915E-07	8.3731E-07	8.2969E-07	8.7762E-07	0.0000E+00
NO2	TKO23b	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3711E-06	2.4019E-06	2.4001E-06	2.4176E-06	2.4008E-06	2.4288E-06	2.4194E-06	2.4230E-06	2.4381E-06	2.4288E-06	2.4381E-06	2.4475E-06	9.8977E-07	9.9615E-07	9.8900E-07	9.8900E-07	0.0000E+00
NO2	TKO23b	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3803E-06	2.3809E-06	2.3828E-06	2.3634E-06	2.3634E-06	2.3403E-06	2.3264E-06	2.3264E-06	2.2935E-06	2.2852E-06	2.3015E-06	2.2705E-06	9.1938E-07	9.0992E-07	9.0992E-07	9.8669E-07	0.0000E+00
NO2	TKO23b	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4781E-06	2.4644E-06	2.4548E-06	2.4450E-06	2.4531E-06	2.4591E-06	2.4591E-06	2.4651E-06	2.4531E-06	2.4591E-06	2.4339E-06	2.4787E-06	1.0140E-06	1.0072E-06	1.0048E-06	1.0085E-06	0.0000E+00
NO2	TKO23b	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5817E-06	2.5749E-06	2.5714E-06	2.5717E-06	2.5729E-06	2.5815E-06	2.5793E-06	2.5748E-06	2.5748E-06	2.5655E-06	2.5655E-06	2.5625E-06	1.0587E-06	1.0538E-06	1.0538E-06	1.0505E-06	0.0000E+00
NO2	TKO23c	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5082E-06	2.4962E-06	2.4954E-06	2.5155E-06	2.5214E-06	2.5195E-06	2.5287E-06	2.4986E-06	2.4790E-06	2.4828E-06	2.4599E-06	2.4459E-06	9.9685E-07	9.9500E-07	1.0086E-06	1.0157E-06	0.0000E+00
NO2	TKO23c	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3724E-06	2.3771E-06	2.3956E-06	2.3809E-06	2.3499E-06	2.3666E-06	2.3779E-06	2.3514E-06	2.3779E-06	2.3499E-06	2.2856E-06	2.2617E-06	9.4985E-07	9.4185E-07	9.4185E-07	9.4185E-07	0.0000E+00
NO2	TKO23c	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4181E-06	2.4285E-06	2.4337E-06	2.4226E-06	2.4003E-06	2.3946E-06	2.3918E-06	2.3971E-06	2.3813E-06	2.3657E-06	2.3273E-06	2.3235E-06	9.3985E-07	9.3769E-07	9.3769E-07	9.3985E-07	0.0000E+00
NO2	TKO23c	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2258E-06	2.2557E-06	2.2737E-06	2.3036E-06	2.3215E-06	2.3155E-06	2.2910E-06	2.2846E-06	2.2718E-06	2.2654E-06	2.2209E-06	2.2081E-06	9.0854E-07	8.9808E-07	8.9808E-07	8.9285E-07	0.0000E+00
NO2	TKO23c	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2974E-06	2.2651E-06	2.3061E-06	2.2856E-06	2.2788E-06	2.2523E-06	2.2788E-06	2.2718E-06	2.2788E-06	2.2515E-06	2.2310E-06	2.2243E-06	8.9046E-07	8.8485E-07	8.8762E-07	8.9323E-07	0.0000E+00
NO2	TKO23c	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1701E-06	2.1782E-06	2.1947E-06	2.1699E-06	2.1810E-06	2.2053E-06	2.1951E-06	2.1959E-06	2.1159E-06	2.1810E-06	2.1772E-06	2.0842E-06	8.3354E-07	8.3131E-07	8.2769E-07	8.2415E-07	0.0000E+00
NO2	TKO23c	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0281E-06	2.0654E-06	2.0842E-06	2.1306E-06	2.2276E-06	2.1306E-06	2.1060E-06	2.1306E-06	2.1460E-06	2.1109E-06	2.0368E-06	2.0468E-06	8.3731E-07	8.2969E-07	8.2592E-07	8.4208E-07	0.0000E+00
NO2	TKO23c	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0934E-06	2.1028E-06	2.1457E-06	2.2053E-06	2.2051E-06	2.2331E-06	2.2423E-06	2.2425E-06	2.1898E-06	2.1306E-06	2.1028E-06	2.0654E-06	8.2915E-07	8.3731E-07	8.2969E-07	8.7762E-07	0.0000E+00
NO2	TKO23c	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3711E-06	2.4019E-06	2.4001E-06	2.4176E-06	2.4008E-06	2.4288E-06	2.4194E-06	2.4230E-06	2.4381E-06	2.4288E-06	2.4381E-06	2.4475E-06	9.8977E-07	9.9615E-07	9.8900E-07	9.8900E-07	0.0000E+00
NO2	TKO23c	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3803E-06	2.3809E-06	2.3828E-06	2.3634E-06	2.3634E-06	2.3403E-06	2.3264E-06	2.3264E-06	2.2935E-06	2.2852E-06	2.3015E-06	2.2705E-06	9.1938E-07	9.0992E-07	9.0992E-07	9.8669E-07	0.0000E+00
NO2	TKO23c	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4781E-06	2.4644E-06	2.4548E-06	2.4450E-06	2.4531E-06	2.4591E-06	2.4591E-06	2.4651E-06	2.4531E-06	2.4591E-06	2.4339E-06	2.4787E-06	1.0140E-06	1.0072E-06	1.0048E-06	1.0085E-06	0.0000E+00
NO2	TKO23c	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5817E-06	2.5749E-06	2.5714E-06	2.5717E-06	2.5729E-06	2.5815E-06	2.5793E-06	2.5748E-06	2.5748E-06	2.5655E-06	2.5655E-06	2.5625E-06	1.0587E-06	1.0538E-06	1.0538E-06	1.0505E-06	0.0000E+00
NO2	TKO23d	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5082E-06	2.4962E-06	2.4995E-06	2.5155E-06	2.5214E-06	2.5195E-06	2.5242E-06	2.4888E-06	2.4790E-06	2.4828E-06	2.4599E-06	2.4459E-06	9.9685E-07	9.9500E-07	1.0025E-06	1.0157E-06	0.0000E+00
NO2	TKO23d	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3771E-06	2.3771E-06	2.3956E-06	2.3858E-06	2.3707E-06	2.3666E-06	2.3779E-06	2.3514E-06	2.3574E-06	2.3215E-06	2.2856E-06	2.2617E-06	9.3985E-07	9.3123E-07	9.4185E-07	9.4185E-07	0.0000E+00
NO2	TKO23d	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4181E-06	2.4285E-06	2.4337E-06	2.4226E-06	2.4003E-06	2.3946E-06	2.3918E-06	2.3918E-06	2.3813E-06	2.3604E-06	2.3162E-06	2.2993E-06	9.3985E-07	9.3769E-07	9.3769E-07	9.3769E-07	0.0000E+00
NO2	TKO23d	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2197E-06	2.2496E-06	2.2617E-06	2.2916E-06	2.3155E-06	2.2782E-06	2.2782E-06	2.2782E-06	2.2590E-06	2.2526E-06	2.2145E-06	2.2017E-06	9.0592E-07	8.9285E-07	8.9546E-07	8.9285E-07	0.0000E+00
NO2	TKO23d	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2974E-06	2.2583E-06	2.2991E-06	2.2856E-06	2.2523E-06	2.2449E-06	2.2788E-06	2.2718E-06	2.2718E-06	2.2515E-06	2.2310E-06	2.2243E-06	8.9046E-07	8.8762E-07	8.8762E-07	8.9323E-07	0.0000E+00
NO2	TKO23d	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1701E-06	2.1782E-06	2.1947E-06	2.1616E-06	2.1635E-06	2.1866E-06	2.2053E-06	2.1772E-06	2.1400E-06	2.1547E-06	2.1772E-06	2.0748E-06	8.2969E-07	8.3131E-07	8.2769E-07	8.2415E-07	0.0000E+00
NO2	TKO23d	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0375E-06	2.0654E-06	2.0654E-06	2.1120E-06	2.1947E-06	2.0934E-06	2.0763E-06	2.1120E-06	2.1372E-06	2.1109E-06	2.0368E-06	2.0375E-06	8.3731E-07	8.2969E-07	8.2592E-07	8.2592E-07	0.0000E+00
NO2	TKO23d	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0654E-06	2.1028E-06	2.1357E-06	2.2053E-06	2.1951E-06	2.2053E-06	2.2160E-06	2.2053E-06	2.1810E-06	2.1306E-06	2.1028E-06	2.0654E-06	8.2915E-07	8.3731E-07	8.1292E-07	8.7423E-07	0.0000E+00
NO2	TKO23d	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3788E-06	2.3841E-06	2.4001E-06	2.4176E-06	2.4102E-06	2.4288E-06	2.4194E-06	2.4230E-06	2.4381E-06	2.4381E-06	2.4288E-06	2.4475E-06	9.8977E-07	9.8977E-07	9.8900E-07	9.8900E-07	0.0000E+00
NO2	TKO23d	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3867E-06	2.3809E-06	2.3828E-06	2.3634E-06	2.3557E-06	2.3324E-06	2.3100E-06	2.3100E-06	2.2852E-06	2.2688E-06	2.2861E-06	2.2628E-06	9.1623E-07	9.0992E-07	9.0992E-07	9.8262E-07	0.0000E+00
NO2	TKO23d	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4781E-06	2.4593E-06	2.4495E-06	2.4450E-06	2.4531E-06	2.4591E-06	2.4591E-06	2.4651E-06	2.4531E-06	2.4531E-06	2.4339E-06	2.4787E-06	1.0085E-06	1.0094E-06	1.0048E-06	1.0085E-06	0.0000E+00
NO2	TKO23d	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5785E-06	2.5714E-06	2.5638E-06	2.5642E-06	2.5685E-06	2.5772E-06	2.5793E-06	2.5748E-06	2.5701E-06	2.5655E-06	2.5655E-06	2.5625E-06	1.0587E-06	1.0538E-06	1.0554E-06	1.0521E-06	0.0000E+00
NO2	TKO23e	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5082E-06	2.4962E-06	2.4995E-06	2.5155E-06	2.5214E-06	2.5195E-06	2.5242E-06	2.4888E-06	2.4790E-06	2.4828E-06	2.4599E-06	2.4459E-06	9.9685E-07	9.9500E-07	1.0025E-06	1.0157E-06	0.0000E+00
NO2	TKO23e	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3771E-06	2.3771E-06	2.3956E-06	2.3858E-06	2.3707E-06	2.3666E-06	2.3779E-06	2.3514E-06	2.3574E-06	2.3215E-06	2.2856E-06	2.2617E-06	9.3985E-07	9.3123E-07	9.4185E-07	9.4185E-07	0.0000E+00
NO2	TKO23e	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4181E-06	2.4285E-06	2.4337E-06	2.4226E-06	2.4003E-06	2.3946E-06	2.3918E-06	2.3918E-06	2.3813E-06	2.3604E-06	2.3162E-06	2.2993E-06	9.3985E-07	9.3769E-07	9.3769E-07	9.3769E-07	0.0000E+00
NO2	TKO23e	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2197E-06	2.2496E-06	2.2617E-06	2.2916E-06	2.3155E-06	2.2782E-06	2.2782E-06	2.2782E-06	2.2590E-06	2.2526E-06	2.2145E-06	2.2017E-06	9.0592E-07	8.9285E-07	8.9546E-07	8.9285E-07	0.0000E+00
NO2	TKO23e	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2974E-06	2.2583E-06	2.2991E-06	2.2856E-06	2.2523E-06	2.2449E-06	2.2788E-06	2.2718E-06	2.2718E-06	2.2515E-06	2.2310E-06	2.2243E-06	8.9046E-07	8.8762E-07	8.8762E-07	8.9323E-07	0.0000E+00
NO2	TKO23e	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1701E-06	2.1782E-06	2.1947E-06	2.1616E-06	2.1635E-06	2.1866E-06	2.2053E-06	2.1772E-06	2.1400E-06	2.1547E-06	2.1772E-06	2.0748E-06	8.2969E-07	8.3131E-07	8.2769E-07	8.2415E-07	0.0000E+00
NO2	TKO23e	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0375E-06	2.0654E-06	2.0654E-06	2.1120E-06	2.1947E-06	2.0934E-06	2.0763E-06	2.1120E-06	2.1372E-06	2.1109E-06	2.0368E-06	2.0375E-06	8.3731E-07	8.2969E-07	8.2592E-07	8.2592E-07	0.0000E+00
NO2	TKO23e	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0654E-06	2.1028E-06	2.1357E-06	2.2053E-06	2.1951E-06	2.2053E-06	2.2160E-06	2.2053E-06	2.1810E-06	2.1306E-06	2.1028E-06	2.0654E-06	8.2915E-07	8.3731E-07	8.1292E-07	8.7423E-07	0.0000E+00
NO2	TKO23e	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3788E-06	2.3841E-06	2.4001E-06	2.4176E-06	2.4102E-06	2.4288E-06	2.4194E-06	2.4230E-06	2.4381E-06	2.4381E-06	2.4288E-06	2.4475E-06	9.8977E-07	9.8977E-07	9.8900E-07	9.8900E-07	0.0000E+00
NO2	TKO23e	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3867E-06	2.3809E-06	2.3828E-06	2.3634E-06	2.3557E-06	2.3324E-06	2.3100E-06	2.3100E-06	2.2852E-06	2.2688E-06	2.2861E-06	2.2628E-06	9.1623E-07	9.0992E-07	9.0992E-07	9.8262E-07	0.0000E+00
NO2	TKO23e	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4781E-06	2.4593E-06	2.4495E-06	2.4450E-06	2.4531E-06	2.4591E-06	2.4591E-06	2.4651E-06	2.4531E-06	2.4531E-06	2.4339E-06	2.4787E-06	1.0085E-06	1.0094E-06	1.0048E-06	1.0085E-06	0.0000E+00
NO2	TKO23e	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5785E-06	2.5714E-06	2.5638E-06	2.5642E-06	2.5685E-06	2.5772E-06	2.5793E-06	2.5748E-06	2.5701E-06	2.5655E-06	2.5655E-06	2.5625E-06	1.0587E-06	1.0538E-06	1.0554E-06	1.0521E-06	0.0000E+00
NO2	TKO23f	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5082E-06	2.4962E-06	2.4995E-06	2.5155E-06	2.5214E-06	2.5195E-06	2.5242E-06	2.4888E-06	2.4790E-06	2.4828E-06	2.4599E-06	2.4459E-06	9.9685E-07	9.9500E-07	1.0025E-06	1.0157E-06	0.0000E+00
NO2	TKO23f	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3771E-06	2.3771E-06	2.3956E-06	2.3858E-06	2.3707E-06	2.3666E-06	2.3779E-06	2.3514E-06	2.3574E-06	2.3215E-06	2.2856E-06	2.2617E-06	9.3985E-07	9.3123E-07	9.4185E-07	9.4185E-07	0.0000E+00
NO2	TKO23f	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4181E-06	2.4285E-06	2.4337E-06	2.4226E-06	2.4003E-06	2.3946E-06	2.3918E-06	2.3918E-06	2.3813E-06	2.3604E-06	2.3162E-06	2.2993E-06	9.3985E-07	9.3769E-07	9.3769E-07	9.3769E-07	0.0000E+00
NO2	TKO23f	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2197E-06	2.2496E-06	2.2617E-06	2.2916E-06	2.3155E-06	2.2782E-06	2.2782E-06	2.2782E-06	2.2590E-06	2.2526E-06	2.2145E-06	2.2017E-06	9.0592E-07	8.9285E-07	8.9546E-07	8.9285E-07	0.0000E+00
NO2	TKO23f	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2974E-06	2.2583E-06	2.2991E-06	2.2856E-06	2.2523E-06	2.2449E-06	2.2788E-06	2.2718E-06	2.2718E-06	2.2515E-06	2.2310E-06	2.2243E-06	8.9046E-07	8.8762E-07	8.8762E-07	8.9323E-07	0.0000E+00
NO2	TKO23f	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1701E-06	2.1782E-06	2.1947E-06	2.1616E-06	2.1635E-06	2.1866E-06	2.2053E-06	2.1772E-06	2.1400E-06	2.1547E-06	2.1772E-06	2.0748E-06	8.2969E-07	8.3131E-07	8.2769E-07	8.2415E-07	0.0000E+00
NO2	TKO23f	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0375E-06	2.0654E-06	2.0654E-06	2.1120E-06	2.1947E-06	2.0934E-06	2.0763E-06	2.1120E-06	2.1372E-06	2.1109E-06	2.0368E-06	2.0375E-06	8.3731E-07	8.2969E-07	8.2592E-07	8.2592E-07	0.0000E+00
NO2	TKO23f	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0654E-06	2.1028E-06	2.1357E-06	2.2053E-06	2.1951E-06	2.2053E-06	2.2160E-06	2.2053E-06	2.1810E-06	2.1306E-06	2.1028E-06	2.0654E-06	8.2915E-07	8.3731E-07	8.1292E-07	8.7423E-07	0.0000E+00
NO2	TKO23f	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3788E-06	2.3841E-06	2.4001E-06	2.4176E-06	2.4102E-06	2.4288E-06	2.4194E-06	2.4230E-06	2.4381E-06	2.4381E-06	2.4288E-06	2.4475E-06	9.8977E-07	9.8977E-07	9.8900E-07	9.8900E-07	0.0000E+00
NO2	TKO23f	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3867E-06	2.3809E-06	2.3828E-06	2.3634E-06	2.3557E-06	2.3324E-06	2.3100E-06	2.3100E-06	2.2852E-06	2.2688E-06	2.2861E-06	2.2628E-06	9.1623E-07	9.0992E-07	9.0992E-07	9.8262E-07	0.0000E+00
NO2	TKO23f	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4781E-06	2.4593E-06	2.4495E-06	2.4450E-06	2.4531E-06	2.4591E-06	2.4591E-06	2.4651E-06	2.4531E-06	2.4531E-06	2.4339E-06	2.4787E-06	1.0085E-06	1.0094E-06	1.0048E-06	1.0085E-06	0.0000E+00
NO2	TKO23f	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5785E-06	2.5714E-06	2.5638E-06	2.5642E-06	2.5685E-06	2.5772E-06	2.5793E-06	2.5748E-06	2.5701E-06	2.5655E-06	2.5655E-06	2.5625E-06	1.0587E-06	1.0538E-06	1.0554E-06	1.0521E-06	0.0000E+00
NO2	TKO23g	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5082E-06	2.4962E-06	2.4995E-06	2.5155E-06	2.5214E-06	2.5195E-06	2.5242E-06	2.4888E-06	2.4790E-06	2.4828E-06	2.4599E-06	2.4459E-06	9.9685E-07	9.9500E-07	1.0025E-06	1.0157E-06	0.0000E+00
NO2	TKO23g	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3771E-06	2.3771E-06	2.3956E-06	2.3858E-06	2.3707E-06	2.3666E-06	2.3779E-06	2.3514E-06	2.3574E-06	2.3215E-06	2.2856E-06	2.2617E-06	9.3985E-07	9.3123E-07	9.4185E-07	9.4185E-07	0.0000E+00
NO2	TKO23g	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4181E-06	2.4285E-06	2.4337E-06	2.4226E-06	2.4003E-06	2.3946E-06	2.3918E-06	2.3918E-06	2.3813E-06	2.3604E-06	2.3162E-06	2.2993E-06	9.3985E-07	9.3769E-07	9.3769E-07	9.3769E-07	0.0000E+00
NO2	TKO23g	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2197E-06	2.2496E-06	2.2617E-06	2.2916E-06	2.3155E-06	2.2782E-06	2.2782E-06	2.2782E-06	2.2590E-06	2.2526E-06	2.2145E-06	2.2017E-06	9.0592E-07	8.9285E-07	8.9546E-07	8.9285E-07	0.0000E+00
NO2	TKO23g	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2974E-06	2.2583E-06	2.2991E-06	2.2856E-06	2.2523E-06	2.2449E-06	2.2788E-06	2.2718E-06	2.2718E-06	2.2515E-06	2.2310E-06	2.2243E-06	8.9046E-07	8.8762E-07	8.8762E-07	8.9323E-07	0.0000E+00
NO2	TKO23g	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1701E-06	2.1782E-06	2.1947E-06	2.1616E-06	2.1635E-06	2.1866E-06	2.2053E-06	2.1772E-06	2.1400E-06	2.1547E-06	2.1772E-06	2.0748E-06	8.2969E-07	8.3131E-07	8.2769E-07	8.2415E-07	0.0000E+00
NO2	TKO23g	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0375E-06	2.0654E-06	2.0654E-06	2.1120E-06	2.1947E-06	2.0934E-06	2.0763E-06	2.1120E-06	2.1372E-06	2.1109E-06	2.0368E-06	2.0375E-06	8.3731E-07	8.2969E-07	8.2592E-07	8.2592E-07	0.0000E+00
NO2	TKO23g	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0654E-06	2.1028E-06	2.1357E-06	2.2053E-06	2.1951E-06	2.2053E-06	2.2160E-06	2.2053E-06	2.1810E-06	2.1306E-06	2.1028E-06	2.0654E-06	8.2915E-07	8.3731E-07	8.1292E-07	8.7423E-07	0.0000E+00
NO2	TKO23g	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3788E-06	2.3841E-06	2.4001E-06	2.4176E-06	2.4102E-06	2.4288E-06	2.4194E-06	2.4230E-06	2.4381E-06	2.4381E-06	2.4288E-06	2.4475E-06	9.8977E-07	9.8977E-07	9.8900E-07	9.8900E-07	0.0000E+00
NO2	TKO23g	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3867E-06	2.3809E-06	2.3828E-06	2.3634E-06	2.3557E-06	2.3324E-06	2.3100E-06	2.3100E-06	2.2852E-06	2.2688E-06	2.2861E-06	2.2628E-06	9.1623E-07	9.0992E-07	9.0992E-07	9.8262E-07	0.0000E+00
NO2	TKO23g	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4781E-06	2.4593E-06	2.4495E-06	2.4450E-06	2.4531E-06	2.4591E-06	2.4591E-06	2.4651E-06	2.4531E-06	2.4531E-06	2.4339E-06	2.4787E-06	1.0085E-06	1.0094E-06	1.0048E-06	1.0085E-06	0.0000E+00
NO2	TKO23g	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5785E-06	2.5714E-06	2.5638E-06	2.5642E-06	2.5685E-06	2.5772E-06	2.5793E-06	2.5748E-06	2.5701E-06	2.5655E-06	2.5655E-06	2.5625E-06	1.0587E-06	1.0538E-06	1.0554E-06	1.0521E-06	0.0000E+00
NO2	TKO23h	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4977E-06	2.4811E-06	2.4753E-06	2.4915E-06	2.4913E-06	2.4828E-06	2.4736E-06	2.4693E-06	2.4544E-06	2.4644E-06	2.4459E-06	2.4367E-06	9.9315E-07	9.8938E-07	9.9877E-07	1.0138E-06	0.0000E+00
NO2	TKO23h	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3587E-06	2.3495E-06	2.3632E-06	2.3514E-06	2.3288E-06	2.3106E-06	2.2993E-06	2.3442E-06	2.3275E-06	2.3036E-06	2.2677E-06	2.2496E-06	9.3769E-07	9.3777E-07	9.3985E-07	9.3777E-07	0.0000E+00
NO2	TKO23h	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3918E-06	2.3971E-06	2.4023E-06	2.3833E-06	2.3610E-06	2.3553E-06	2.3446E-06	2.3657E-06	2.3499E-06	2.3341E-06	2.2993E-06	2.2882E-06	9.2462E-07	9.2908E-07	9.2231E-07	9.3554E-07	0.0000E+00
NO2	TKO23h	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1959E-06	2.2197E-06	2.2197E-06	2.2378E-06	2.2496E-06	2.2378E-06	2.2378E-06	2.2337E-06	2.2209E-06	2.2209E-06	2.1825E-06	2.1889E-06	9.0069E-07	8.8762E-07	8.9285E-07	8.8762E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	TKO23h	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2718E-06	2.2310E-06	2.2515E-06	2.2378E-06	2.2310E-06	2.2107E-06	2.2107E-06	2.2378E-06	2.2378E-06	2.2243E-06	2.2107E-06	2.2175E-06	8.8485E-07	8.8208E-07	8.7931E-07	8.8485E-07	0.0000E+00
NO2	TKO23h	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1470E-06	2.1287E-06	2.1041E-06	2.1041E-06	2.1124E-06	2.1197E-06	2.0934E-06	2.1120E-06	2.0842E-06	2.1109E-06	2.1400E-06	2.0562E-06	8.2592E-07	8.0300E-07	8.2415E-07	8.1700E-07	0.0000E+00
NO2	TKO23h	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0095E-06	2.0375E-06	1.9774E-06	2.0169E-06	2.1536E-06	2.0468E-06	2.0169E-06	2.0748E-06	2.0759E-06	2.0671E-06	1.9871E-06	2.0095E-06	8.2592E-07	8.1831E-07	8.1831E-07	8.2208E-07	0.0000E+00
NO2	TKO23h	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0281E-06	2.0375E-06	2.0763E-06	2.1306E-06	2.1492E-06	2.1460E-06	2.1284E-06	2.1306E-06	2.1284E-06	2.0842E-06	2.0654E-06	2.0375E-06	8.1700E-07	8.2592E-07	8.0077E-07	8.4562E-07	0.0000E+00
NO2	TKO23h	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3324E-06	2.3557E-06	2.3758E-06	2.3649E-06	2.3563E-06	2.3636E-06	2.3542E-06	2.3730E-06	2.3822E-06	2.3822E-06	2.3916E-06	2.4008E-06	9.7454E-07	9.6692E-07	9.6692E-07	9.7108E-07	0.0000E+00
NO2	TKO23h	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3611E-06	2.3469E-06	2.3465E-06	2.3393E-06	2.3092E-06	2.2938E-06	2.3015E-06	2.2769E-06	2.2523E-06	2.2357E-06	2.2194E-06	2.2111E-06	9.0115E-07	8.9108E-07	8.9446E-07	9.6685E-07	0.0000E+00
NO2	TKO23h	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4644E-06	2.4397E-06	2.4234E-06	2.4337E-06	2.4283E-06	2.4172E-06	2.4172E-06	2.4292E-06	2.4232E-06	2.4350E-06	2.4051E-06	2.4411E-06	1.0011E-06	9.9131E-07	9.9569E-07	1.0021E-06	0.0000E+00
NO2	TKO23h	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5654E-06	2.5573E-06	2.5488E-06	2.5477E-06	2.5471E-06	2.5558E-06	2.5516E-06	2.5471E-06	2.5516E-06	2.5471E-06	2.5471E-06	2.5479E-06	1.0521E-06	1.0488E-06	1.0488E-06	1.0402E-06	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	CVEH14_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9375E-06	2.9477E-06	2.9529E-06	2.9316E-06	2.9370E-06	2.9370E-06	2.9093E-06	2.9268E-06	2.9210E-06	2.9151E-06	2.9093E-06	2.9035E-06	2.8977E-06	2.8801E-06	2.8801E-06	2.9151E-06	0.0000E+00
NO	CVEH14_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8218E-06	2.7990E-06	2.8115E-06	2.8239E-06	2.7958E-06	2.8024E-06	2.8024E-06	2.7877E-06	2.7806E-06	2.7735E-06	2.8024E-06	2.7891E-06	2.7825E-06	2.7928E-06	2.7928E-06	2.7866E-06	0.0000E+00
NO	CVEH14_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8115E-06	2.7891E-06	2.8024E-06	2.8091E-06	2.8091E-06	2.8091E-06	2.8157E-06	2.7948E-06	2.7948E-06	2.7806E-06	2.7664E-06	2.7594E-06	2.7523E-06	2.7692E-06	2.7692E-06	2.7692E-06	0.0000E+00
NO	CVEH14_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6681E-06	2.6482E-06	2.6563E-06	2.6723E-06	2.6376E-06	2.6462E-06	2.6884E-06	2.6633E-06	2.6547E-06	2.6462E-06	2.6291E-06	2.6563E-06	2.6120E-06	2.6322E-06	2.6242E-06	2.6242E-06	0.0000E+00
NO	CVEH14_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6322E-06	2.6034E-06	2.6205E-06	2.6291E-06	2.6291E-06	2.6376E-06	2.6376E-06	2.6108E-06	2.6016E-06	2.5926E-06	2.5744E-06	2.5653E-06	2.6034E-06	2.5778E-06	2.5692E-06	2.5692E-06	0.0000E+00
NO	CVEH14_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4969E-06	2.4748E-06	2.4954E-06	2.4954E-06	2.5056E-06	2.5159E-06	2.5159E-06	2.4758E-06	2.4758E-06	2.4758E-06	2.4648E-06	2.5056E-06	2.5056E-06	2.4646E-06	2.4543E-06	2.4543E-06	0.0000E+00
NO	CVEH14_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4954E-06	2.5056E-06	2.4758E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4575E-06	2.4975E-06	2.4866E-06	2.4866E-06	2.4758E-06	2.4648E-06	2.4954E-06	2.4954E-06	2.4851E-06	0.0000E+00
NO	CVEH14_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4851E-06	2.5159E-06	2.4866E-06	2.5193E-06	2.5193E-06	2.5193E-06	2.5084E-06	2.5193E-06	2.4975E-06	2.4866E-06	2.4758E-06	2.4540E-06	2.4540E-06	2.4851E-06	2.4748E-06	2.4748E-06	0.0000E+00
NO	CVEH14_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6653E-06	2.6514E-06	2.6804E-06	2.6901E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6595E-06	2.6493E-06	2.6390E-06	2.6390E-06	2.6185E-06	2.6514E-06	2.6418E-06	0.0000E+00
NO	CVEH14_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7607E-06	2.7687E-06	2.7572E-06	2.7658E-06	2.7744E-06	2.7829E-06	2.7471E-06	2.7562E-06	2.7471E-06	2.7380E-06	2.7289E-06	2.7198E-06	2.7016E-06	2.6926E-06	2.7230E-06	2.7316E-06	0.0000E+00
NO	CVEH14_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9443E-06	2.9298E-06	2.9153E-06	2.9286E-06	2.9151E-06	2.9151E-06	2.9080E-06	2.8869E-06	2.8718E-06	2.8868E-06	2.8726E-06	2.8726E-06	2.8656E-06	2.8514E-06	2.8514E-06	2.8821E-06	0.0000E+00
NO	CVEH14_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0164E-06	3.0041E-06	3.0041E-06	2.9862E-06	2.9917E-06	2.9917E-06	2.9971E-06	2.9910E-06	2.9852E-06	2.9735E-06	2.9618E-06	2.9501E-06	2.9501E-06	2.9534E-06	2.9479E-06	2.9479E-06	0.0000E+00
NO	CVEH14_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9375E-06	2.9477E-06	2.9529E-06	2.9316E-06	2.9370E-06	2.9370E-06	2.9093E-06	2.9268E-06	2.9210E-06	2.9151E-06	2.9093E-06	2.9035E-06	2.8977E-06	2.8801E-06	2.8801E-06	2.9151E-06	0.0000E+00
NO	CVEH14_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8218E-06	2.7990E-06	2.8115E-06	2.8239E-06	2.7958E-06	2.8024E-06	2.8024E-06	2.7877E-06	2.7806E-06	2.7735E-06	2.8024E-06	2.7891E-06	2.7825E-06	2.7928E-06	2.7928E-06	2.7866E-06	0.0000E+00
NO	CVEH14_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8115E-06	2.7891E-06	2.8024E-06	2.8091E-06	2.8091E-06	2.8091E-06	2.8157E-06	2.7948E-06	2.7948E-06	2.7806E-06	2.7664E-06	2.7594E-06	2.7523E-06	2.7692E-06	2.7692E-06	2.7692E-06	0.0000E+00
NO	CVEH14_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6681E-06	2.6482E-06	2.6563E-06	2.6723E-06	2.6376E-06	2.6462E-06	2.6884E-06	2.6633E-06	2.6547E-06	2.6462E-06	2.6291E-06	2.6563E-06	2.6120E-06	2.6322E-06	2.6242E-06	2.6242E-06	0.0000E+00
NO	CVEH14_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6322E-06	2.6034E-06	2.6205E-06	2.6291E-06	2.6291E-06	2.6376E-06	2.6376E-06	2.6108E-06	2.6016E-06	2.5926E-06	2.5744E-06	2.5653E-06	2.6034E-06	2.5778E-06	2.5692E-06	2.5692E-06	0.0000E+00
NO	CVEH14_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4969E-06	2.4748E-06	2.4954E-06	2.4954E-06	2.5056E-06	2.5159E-06	2.5159E-06	2.4758E-06	2.4758E-06	2.4758E-06	2.4648E-06	2.5056E-06	2.5056E-06	2.4646E-06	2.4543E-06	2.4543E-06	0.0000E+00
NO	CVEH14_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4954E-06	2.5056E-06	2.4758E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4575E-06	2.4975E-06	2.4866E-06	2.4866E-06	2.4758E-06	2.4648E-06	2.4954E-06	2.4954E-06	2.4851E-06	0.0000E+00
NO	CVEH14_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4851E-06	2.5159E-06	2.4866E-06	2.5193E-06	2.5193E-06	2.5193E-06	2.5084E-06	2.5193E-06	2.4975E-06	2.4866E-06	2.4758E-06	2.4540E-06	2.4540E-06	2.4851E-06	2.4748E-06	2.4748E-06	0.0000E+00
NO	CVEH14_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6653E-06	2.6514E-06	2.6804E-06	2.6901E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6595E-06	2.6493E-06	2.6390E-06	2.6390E-06	2.6185E-06	2.6514E-06	2.6418E-06	0.0000E+00
NO	CVEH14_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7607E-06	2.7687E-06	2.7572E-06	2.7658E-06	2.7744E-06	2.7829E-06	2.7471E-06	2.7562E-06	2.7471E-06	2.7380E-06	2.7289E-06	2.7198E-06	2.7016E-06	2.6926E-06	2.7230E-06	2.7316E-06	0.0000E+00
NO	CVEH14_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9443E-06	2.9298E-06	2.9153E-06	2.9286E-06	2.9151E-06	2.9151E-06	2.9080E-06	2.8869E-06	2.8718E-06	2.8868E-06	2.8726E-06	2.8726E-06	2.8656E-06	2.8514E-06	2.8514E-06	2.8821E-06	0.0000E+00
NO	CVEH14_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0164E-06	3.0041E-06	3.0041E-06	2.9862E-06	2.9917E-06	2.9917E-06	2.9971E-06	2.9910E-06	2.9852E-06	2.9735E-06	2.9618E-06	2.9501E-06	2.9501E-06	2.9534E-06	2.9479E-06	2.9479E-06	0.0000E+00
NO	CVEH14_3	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9375E-06	2.9477E-06	2.9529E-06	2.9316E-06	2.9370E-06	2.9370E-06	2.9093E-06	2.9268E-06	2.9210E-06	2.9151E-06	2.9093E-06	2.9035E-06	2.8977E-06	2.8801E-06	2.8801E-06	2.9151E-06	0.0000E+00
NO	CVEH14_3	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8218E-06	2.7990E-06	2.8115E-06	2.8239E-06	2.7958E-06	2.8024E-06	2.8024E-06	2.7877E-06	2.7806E-06	2.7735E-06	2.8024E-06	2.7891E-06	2.7825E-06	2.7928E-06	2.7928E-06	2.7866E-06	0.0000E+00
NO	CVEH14_3	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8115E-06	2.7891E-06	2.8024E-06	2.8091E-06	2.8091E-06	2.8091E-06	2.8157E-06	2.7948E-06	2.7948E-06	2.7806E-06	2.7664E-06	2.7594E-06	2.7523E-06	2.7692E-06	2.7692E-06	2.7692E-06	0.0000E+00
NO	CVEH14_3	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6681E-06	2.6482E-06	2.6563E-06	2.6723E-06	2.6376E-06	2.6462E-06	2.6884E-06	2.6633E-06	2.6547E-06	2.6462E-06	2.6291E-06	2.6563E-06	2.6120E-06	2.6322E-06	2.6242E-06	2.6242E-06	0.0000E+00
NO	CVEH14_3	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6322E-06	2.6034E-06	2.6205E-06	2.6291E-06	2.6291E-06	2.6376E-06	2.6376E-06	2.6108E-06	2.6016E-06	2.5926E-06	2.5744E-06	2.5653E-06	2.6034E-06	2.5778E-06	2.5692E-06	2.5692E-06	0.0000E+00
NO	CVEH14_3	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4969E-06	2.4748E-06	2.4954E-06	2.4954E-06	2.5056E-06	2.5159E-06	2.5159E-06	2.4758E-06	2.4758E-06	2.4758E-06	2.4648E-06	2.5056E-06	2.5056E-06	2.4646E-06	2.4543E-06	2.4543E-06	0.0000E+00
NO	CVEH14_3	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4954E-06	2.5056E-06	2.4758E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4575E-06	2.4975E-06	2.4866E-06	2.4866E-06	2.4758E-06	2.4648E-06	2.4954E-06	2.4954E-06	2.4851E-06	0.0000E+00
NO	CVEH14_3	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4851E-06	2.5159E-06	2.4866E-06	2.5193E-06	2.5193E-06	2.5193E-06	2.5084E-06	2.5193E-06	2.4975E-06	2.4866E-06	2.4758E-06	2.4540E-06	2.4540E-06	2.4851E-06	2.4748E-06	2.4748E-06	0.0000E+00
NO	CVEH14_3	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6653E-06	2.6514E-06	2.6804E-06	2.6901E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6595E-06	2.6493E-06	2.6390E-06	2.6390E-06	2.6185E-06	2.6514E-06	2.6418E-06	0.0000E+00
NO	CVEH14_3	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7607E-06	2.7687E-06	2.7572E-06	2.7658E-06	2.7744E-06	2.7829E-06	2.7471E-06	2.7562E-06	2.7471E-06	2.7380E-06	2.7289E-06	2.7198E-06	2.7016E-06	2.6926E-06	2.7230E-06	2.7316E-06	0.0000E+00
NO	CVEH14_3	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9443E-06	2.9298E-06	2.9153E-06	2.9286E-06	2.9151E-06	2.9151E-06	2.9080E-06	2.8869E-06	2.8718E-06	2.8868E-06	2.8726E-06	2.8726E-06	2.8656E-06	2.8514E-06	2.8514E-06	2.8821E-06	0.0000E+00
NO	CVEH14_3	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0164E-06	3.0041E-06	3.0041E-06	2.9862E-06	2.9917E-06	2.9917E-06	2.9971E-06	2.9910E-06	2.9852E-06	2.9735E-06	2.9618E-06	2.9501E-06	2.9501E-06	2.9534E-06	2.9479E-06	2.9479E-06	0.0000E+00
NO	CVEH14_4	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9375E-06	2.9477E-06	2.9529E-06	2.9316E-06	2.9370E-06	2.9370E-06	2.9093E-06	2.9268E-06	2.9210E-06	2.9151E-06	2.9093E-06	2.9035E-06	2.8977E-06	2.8801E-06	2.8801E-06	2.9151E-06	0.0000E+00
NO	CVEH14_4	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8218E-06	2.7990E-06	2.8115E-06	2.8239E-06	2.7958E-06	2.8024E-06	2.8024E-06	2.7877E-06	2.7806E-06	2.7735E-06	2.8024E-06	2.7891E-06	2.7825E-06	2.7928E-06	2.7928E-06	2.7866E-06	0.0000E+00
NO	CVEH14_4	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8115E-06	2.7891E-06	2.8024E-06	2.8091E-06	2.8091E-06	2.8091E-06	2.8157E-06	2.7948E-06	2.7948E-06	2.7806E-06	2.7664E-06	2.7594E-06	2.7523E-06	2.7692E-06	2.7692E-06	2.7692E-06	0.0000E+00
NO	CVEH14_4	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6681E-06	2.6482E-06	2.6563E-06	2.6723E-06	2.6376E-06	2.6462E-06	2.6884E-06	2.6633E-06	2.6547E-06	2.6462E-06	2.6291E-06	2.6563E-06	2.6120E-06	2.6322E-06	2.6242E-06	2.6242E-06	0.0000E+00
NO	CVEH14_4	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6322E-06	2.6034E-06	2.6205E-06	2.6291E-06	2.6291E-06	2.6376E-06	2.6376E-06	2.6108E-06	2.6016E-06	2.5926E-06	2.5744E-06	2.5653E-06	2.6034E-06	2.5778E-06	2.5692E-06	2.5692E-06	0.0000E+00
NO	CVEH14_4	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4969E-06	2.4748E-06	2.4954E-06	2.4954E-06	2.5056E-06	2.5159E-06	2.5159E-06	2.4758E-06	2.4758E-06	2.4758E-06	2.4648E-06	2.5056E-06	2.5056E-06	2.4646E-06	2.4543E-06	2.4543E-06	0.0000E+00
NO	CVEH14_4	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4954E-06	2.5056E-06	2.4758E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4575E-06	2.4975E-06	2.4866E-06	2.4866E-06	2.4758E-06	2.4648E-06	2.4954E-06	2.4954E-06	2.4851E-06	0.0000E+00
NO	CVEH14_4	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4851E-06	2.5159E-06	2.4866E-06	2.5193E-06	2.5193E-06	2.5193E-06	2.5084E-06	2.5193E-06	2.4975E-06	2.4866E-06	2.4758E-06	2.4540E-06	2.4540E-06	2.4851E-06	2.4748E-06	2.4748E-06	0.0000E+00
NO	CVEH14_4	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6653E-06	2.6514E-06	2.6804E-06	2.6901E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6595E-06	2.6493E-06	2.6390E-06	2.6390E-06	2.6185E-06	2.6514E-06	2.6418E-06	0.0000E+00
NO	CVEH14_4	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7607E-06	2.7687E-06	2.7572E-06	2.7658E-06	2.7744E-06	2.7829E-06	2.7471E-06	2.7562E-06	2.7471E-06	2.7380E-06	2.7289E-06	2.7198E-06	2.7016E-06	2.6926E-06	2.7230E-06	2.7316E-06	0.0000E+00
NO	CVEH14_4	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9443E-06	2.9298E-06	2.9153E-06	2.9286E-06	2.9151E-06	2.9151E-06	2.9080E-06	2.8869E-06	2.8718E-06	2.8868E-06	2.8726E-06	2.8726E-06	2.8656E-06	2.8514E-06	2.8514E-06	2.8821E-06	0.0000E+00
NO	CVEH14_4	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0164E-06	3.0041E-06	3.0041E-06	2.9862E-06	2.9917E-06	2.9917E-06	2.9971E-06	2.9910E-06	2.9852E-06	2.9735E-06	2.9618E-06	2.9501E-06	2.9501E-06	2.9534E-06	2.9479E-06	2.9479E-06	0.0000E+00
NO	CVEH14_5	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9375E-06	2.9477E-06	2.9529E-06	2.9316E-06	2.9370E-06	2.9370E-06	2.9093E-06	2.9268E-06	2.9210E-06	2.9151E-06	2.9093E-06	2.9035E-06	2.8977E-06	2.8801E-06	2.8801E-06	2.9151E-06	0.0000E+00
NO	CVEH14_5	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8218E-06	2.7990E-06	2.8115E-06	2.8239E-06	2.7958E-06	2.8024E-06	2.8024E-06	2.7877E-06	2.7806E-06	2.7735E-06	2.8024E-06	2.7891E-06	2.7825E-06	2.7928E-06	2.7928E-06	2.7866E-06	0.0000E+00
NO	CVEH14_5	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8115E-06	2.7891E-06	2.8024E-06	2.8091E-06	2.8091E-06	2.8091E-06	2.8157E-06	2.7948E-06	2.7948E-06	2.7806E-06	2.7664E-06	2.7594E-06	2.7523E-06	2.7692E-06	2.7692E-06	2.7692E-06	0.0000E+00
NO	CVEH14_5	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6681E-06	2.6482E-06	2.6563E-06	2.6723E-06	2.6376E-06	2.6462E-06	2.6884E-06	2.6633E-06	2.6547E-06	2.6462E-06	2.6291E-06	2.6563E-06	2.6120E-06	2.6322E-06	2.6242E-06	2.6242E-06	0.0000E+00
NO	CVEH14_5	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6322E-06	2.6034E-06	2.6205E-06	2.6291E-06	2.6291E-06	2.6376E-06	2.6376E-06	2.6108E-06	2.6016E-06	2.5926E-06	2.5744E-06	2.5653E-06	2.6034E-06	2.5778E-06	2.5692E-06	2.5692E-06	0.0000E+00
NO	CVEH14_5	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4969E-06	2.4748E-06	2.4954E-06	2.4954E-06	2.5056E-06	2.5159E-06	2.5159E-06	2.4758E-06	2.4758E-06	2.4758E-06	2.4648E-06	2.5056E-06	2.5056E-06	2.4646E-06	2.4543E-06	2.4543E-06	0.0000E+00
NO	CVEH14_5	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4954E-06	2.5056E-06	2.4758E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4575E-06	2.4975E-06	2.4866E-06	2.4866E-06	2.4758E-06	2.4648E-06	2.4954E-06	2.4954E-06	2.4851E-06	0.0000E+00
NO	CVEH14_5	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4851E-06	2.5159E-06	2.4866E-06	2.5193E-06	2.5193E-06	2.5193E-06	2.5084E-06	2.5193E-06	2.4975E-06	2.4866E-06	2.4758E-06	2.4540E-06	2.4540E-06	2.4851E-06	2.4748E-06	2.4748E-06	0.0000E+00
NO	CVEH14_5	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6653E-06	2.6514E-06	2.6804E-06	2.6901E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6595E-06	2.6493E-06	2.6390E-06	2.6390E-06	2.6185E-06	2.6514E-06	2.6418E-06	0.0000E+00
NO	CVEH14_5	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7607E-06	2.7687E-06	2.7572E-06	2.7658E-06	2.7744E-06	2.7829E-06	2.7471E-06	2.7562E-06	2.7471E-06	2.7380E-06	2.7289E-06	2.7198E-06	2.7016E-06	2.6926E-06	2.7230E-06	2.7316E-06	0.0000E+00
NO	CVEH14_5	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9443E-06	2.9298E-06	2.9153E-06	2.9286E-06	2.9151E-06	2.9151E-06	2.9080E-06	2.8869E-06	2.8718E-06	2.8868E-06	2.8726E-06	2.8726E-06	2.8656E-06	2.8514E-06	2.8514E-06	2.8821E-06	0.0000E+00
NO	CVEH14_5	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0164E-06	3.0041E-06	3.0041E-06	2.9862E-06	2.9917E-06	2.9917E-06	2.9971E-06	2.9910E-06	2.9852E-06	2.9735E-06	2.9618E-06	2.9501E-06	2.9501E-06	2.9534E-06	2.9479E-06	2.9479E-06	0.0000E+00
NO	CVEH14_6	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9375E-06	2.9477E-06	2.9529E-06	2.9316E-06	2.9370E-06	2.9370E-06	2.9093E-06	2.9268E-06	2.9210E-06	2.9151E-06	2.9093E-06	2.9035E-06	2.8977E-06	2.8801E-06	2.8801E-06	2.9151E-06	0.0000E+00
NO	CVEH14_6	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8218E-06	2.7990E-06	2.8115E-06	2.8239E-06	2.7958E-06	2.8024E-06	2.8024E-06	2.7877E-06	2.7806E-06	2.7735E-06	2.8024E-06	2.7891E-06	2.7825E-06	2.7928E-06	2.7928E-06	2.7866E-06	0.0000E+00
NO	CVEH14_6	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8115E-06	2.7891E-06	2.8024E-06	2.8091E-06	2.8091E-06	2.8091E-06	2.8157E-06	2.7948E-06	2.7948E-06	2.7806E-06	2.7664E-06	2.7594E-06	2.7523E-06	2.7692E-06	2.7692E-06	2.7692E-06	0.0000E+00
NO	CVEH14_6	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6681E-06	2.6482E-06	2.6563E-06	2.6723E-06	2.6376E-06	2.6462E-06	2.6884E-06	2.6633E-06	2.6547E-06	2.6462E-06	2.6291E-06	2.6563E-06	2.6120E-06	2.6322E-06	2.6242E-06	2.6242E-06	0.0000E+00
NO	CVEH14_6	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6322E-06	2.6034E-06	2.6205E-06	2.6291E-06	2.6291E-06	2.6376E-06	2.6376E-06	2.6108E-06	2.6016E-06	2.5926E-06	2.5744E-06	2.5653E-06	2.6034E-06	2.5778E-06	2.5692E-06	2.5692E-06	0.0000E+00
NO	CVEH14_6	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4969E-06	2.4748E-06	2.4954E-06	2.4954E-06	2.5056E-06	2.5159E-06	2.5159E-06	2.4758E-06	2.4758E-06	2.4758E-06	2.4648E-06	2.5056E-06	2.5056E-06	2.4646E-06	2.4543E-06	2.4543E-06	0.0000E+00
NO	CVEH14_6	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4954E-06	2.5056E-06	2.4758E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4575E-06	2.4975E-06	2.4866E-06	2.4866E-06	2.4758E-06	2.4648E-06	2.4954E-06	2.4954E-06	2.4851E-06	0.0000E+00
NO	CVEH14_6	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4851E-06	2.5159E-06	2.4866E-06	2.5193E-06	2.5193E-06	2.5193E-06	2.5084E-06	2.5193E-06	2.4975E-06	2.4866E-06	2.4758E-06	2.4540E-06	2.4540E-06	2.4851E-06	2.4748E-06	2.4748E-06	0.0000E+00
NO	CVEH14_6	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6653E-06	2.6514E-06	2.6804E-06	2.6901E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6595E-06	2.6493E-06	2.6390E-06	2.6390E-06	2.6185E-06	2.6514E-06	2.6418E-06	0.0000E+00
NO	CVEH14_6	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7607E-06	2.7687E-06	2.7572E-06	2.7658E-06	2.7744E-06	2.7829E-06	2.7471E-06	2.7562E-06	2.7471E-06	2.7380E-06	2.7289E-06	2.7198E-06	2.7016E-06	2.6926E-06	2.7230E-06	2.7316E-06	0.0000E+00
NO	CVEH14_6	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9443E-06	2.9298E-06	2.9153E-06	2.9286E-06	2.9151E-06	2.9151E-06	2.9080E-06	2.8869E-06	2.8718E-06	2.8868E-06	2.8726E-06	2.8726E-06	2.8656E-06	2.8514E-06	2.8514E-06	2.8821E-06	0.0000E+00
NO	CVEH14_6	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0164E-06	3.0041E-06	3.0041E-06	2.9862E-06	2.9917E-06	2.9917E-06	2.9971E-06	2.9910E-06	2.9852E-06	2.9735E-06	2.9618E-06	2.9501E-06	2.9501E-06	2.9534E-06	2.9479E-06	2.9479E-06	0.0000E+00
NO	CVEH14_7	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.8750E-06	5.8955E-06	5.9057E-06	5.8631E-06	5.8740E-06	5.8740E-06	5.8186E-06	5.8537E-06	5.8420E-06	5.8303E-06	5.8186E-06	5.8069E-06	5.7953E-06	5.7603E-06	5.7603E-06	5.8303E-06	0.0000E+00
NO	CVEH14_7	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6435E-06	5.5980E-06	5.6230E-06	5.6479E-06	5.5915E-06	5.6048E-06	5.6048E-06	5.5754E-06	5.5612E-06	5.5471E-06	5.6048E-06	5.5782E-06	5.5650E-06	5.5855E-06	5.5855E-06	5.5731E-06	0.0000E+00
NO	CVEH14_7	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.6230E-06	5.5782E-06	5.6048E-06	5.6181E-06	5.6181E-06	5.6181E-06	5.6314E-06	5.5896E-06	5.5896E-06	5.5612E-06	5.5329E-06	5.5188E-06	5.5046E-06	5.5384E-06	5.5384E-06	5.5384E-06	0.0000E+00
NO	CVEH14_7	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3363E-06	5.2964E-06	5.3125E-06	5.3447E-06	5.2752E-06	5.2923E-06	5.3768E-06	5.3265E-06	5.3094E-06	5.2923E-06	5.2581E-06	5.3125E-06	5.2239E-06	5.2644E-06	5.2483E-06	5.2483E-06	0.0000E+00
NO	CVEH14_7	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2644E-06	5.2069E-06	5.2410E-06	5.2581E-06	5.2581E-06	5.2752E-06	5.2752E-06	5.2215E-06	5.2032E-06	5.1851E-06	5.1488E-06	5.1306E-06	5.2069E-06	5.1556E-06	5.1384E-06	5.1384E-06	0.0000E+00
NO	CVEH14_7	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9938E-06	4.9497E-06	4.9907E-06	4.9907E-06	5.0113E-06	5.0318E-06	5.0318E-06	4.9515E-06	4.9515E-06	4.9515E-06	4.9297E-06	5.0113E-06	5.0113E-06	4.9292E-06	4.9087E-06	4.9087E-06	0.0000E+00
NO	CVEH14_7	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9907E-06	5.0113E-06	4.9515E-06	4.9950E-06	4.9950E-06	4.9950E-06	4.9950E-06	4.9150E-06	4.9950E-06	4.9732E-06	4.9732E-06	4.9515E-06	4.9297E-06	4.9907E-06	4.9907E-06	4.9703E-06	0.0000E+00
NO	CVEH14_7	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9703E-06	5.0318E-06	4.9732E-06	5.0386E-06	5.0386E-06	5.0386E-06	5.0169E-06	5.0386E-06	4.9950E-06	4.9732E-06	4.9515E-06	4.9080E-06	4.9080E-06	4.9703E-06	4.9497E-06	4.9497E-06	0.0000E+00
NO	CVEH14_7	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.3306E-06	5.3029E-06	5.3608E-06	5.3801E-06	5.3191E-06	5.3396E-06	5.3191E-06	5.3396E-06	5.3191E-06	5.3191E-06	5.2986E-06	5.2780E-06	5.2780E-06	5.2370E-06	5.3029E-06	5.2836E-06	0.0000E+00
NO	CVEH14_7	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.5214E-06	5.5375E-06	5.5145E-06	5.5316E-06	5.5487E-06	5.5657E-06	5.4942E-06	5.5123E-06	5.4942E-06	5.4759E-06	5.4578E-06	5.4396E-06	5.4032E-06	5.3851E-06	5.4461E-06	5.4632E-06	0.0000E+00
NO	CVEH14_7	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.8887E-06	5.8596E-06	5.8306E-06	5.8571E-06	5.8302E-06	5.8302E-06	5.8161E-06	5.7737E-06	5.7436E-06	5.7736E-06	5.7453E-06	5.7453E-06	5.7312E-06	5.7028E-06	5.7028E-06	5.7642E-06	0.0000E+00
NO	CVEH14_7	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.0328E-06	6.0081E-06	6.0081E-06	5.9724E-06	5.9833E-06	5.9833E-06	5.9942E-06	5.9821E-06	5.9704E-06	5.9470E-06	5.9237E-06	5.9003E-06	5.9003E-06	5.9068E-06	5.8959E-06	5.8959E-06	0.0000E+00
NO	CVEH14_8	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9375E-06	2.9477E-06	2.9529E-06	2.9316E-06	2.9370E-06	2.9370E-06	2.9093E-06	2.9268E-06	2.9210E-06	2.9151E-06	2.9093E-06	2.9035E-06	2.8977E-06	2.8801E-06	2.8801E-06	2.9151E-06	0.0000E+00
NO	CVEH14_8	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8218E-06	2.7990E-06	2.8115E-06	2.8239E-06	2.7958E-06	2.8024E-06	2.8024E-06	2.7877E-06	2.7806E-06	2.7735E-06	2.8024E-06	2.7891E-06	2.7825E-06	2.7928E-06	2.7928E-06	2.7866E-06	0.0000E+00
NO	CVEH14_8	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8115E-06	2.7891E-06	2.8024E-06	2.8091E-06	2.8091E-06	2.8091E-06	2.8157E-06	2.7948E-06	2.7948E-06	2.7806E-06	2.7664E-06	2.7594E-06	2.7523E-06	2.7692E-06	2.7692E-06	2.7692E-06	0.0000E+00
NO	CVEH14_8	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6681E-06	2.6482E-06	2.6563E-06	2.6723E-06	2.6376E-06	2.6462E-06	2.6884E-06	2.6633E-06	2.6547E-06	2.6462E-06	2.6291E-06	2.6563E-06	2.6120E-06	2.6322E-06	2.6242E-06	2.6242E-06	0.0000E+00
NO	CVEH14_8	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6322E-06	2.6034E-06	2.6205E-06	2.6291E-06	2.6291E-06	2.6376E-06	2.6376E-06	2.6108E-06	2.6016E-06	2.5926E-06	2.5744E-06	2.5653E-06	2.6034E-06	2.5778E-06	2.5692E-06	2.5692E-06	0.0000E+00
NO	CVEH14_8	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4969E-06	2.4748E-06	2.4954E-06	2.4954E-06	2.5056E-06	2.5159E-06	2.5159E-06	2.4758E-06	2.4758E-06	2.4758E-06	2.4648E-06	2.5056E-06	2.5056E-06	2.4646E-06	2.4543E-06	2.4543E-06	0.0000E+00
NO	CVEH14_8	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4954E-06	2.5056E-06	2.4758E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4975E-06	2.4575E-06	2.4975E-06	2.4866E-06	2.4866E-06	2.4758E-06	2.4648E-06	2.4954E-06	2.4954E-06	2.4851E-06	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	CVEH14_8	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4851E-06	2.5159E-06	2.4866E-06	2.5193E-06	2.5193E-06	2.5193E-06	2.5084E-06	2.5193E-06	2.4975E-06	2.4866E-06	2.4758E-06	2.4540E-06	2.4540E-06	2.4851E-06	2.4748E-06	2.4748E-06	0.0000E+00
NO	CVEH14_8	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6653E-06	2.6514E-06	2.6804E-06	2.6901E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6698E-06	2.6595E-06	2.6595E-06	2.6493E-06	2.6390E-06	2.6390E-06	2.6185E-06	2.6514E-06	2.6418E-06	0.0000E+00
NO	CVEH14_8	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7607E-06	2.7687E-06	2.7572E-06	2.7658E-06	2.7744E-06	2.7829E-06	2.7471E-06	2.7562E-06	2.7471E-06	2.7380E-06	2.7289E-06	2.7198E-06	2.7016E-06	2.6926E-06	2.7230E-06	2.7316E-06	0.0000E+00
NO	CVEH14_8	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9443E-06	2.9298E-06	2.9153E-06	2.9286E-06	2.9151E-06	2.9151E-06	2.9080E-06	2.8869E-06	2.8718E-06	2.8868E-06	2.8726E-06	2.8726E-06	2.8656E-06	2.8514E-06	2.8514E-06	2.8821E-06	0.0000E+00
NO	CVEH14_8	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0164E-06	3.0041E-06	3.0041E-06	2.9862E-06	2.9917E-06	2.9917E-06	2.9971E-06	2.9910E-06	2.9852E-06	2.9735E-06	2.9618E-06	2.9501E-06	2.9501E-06	2.9534E-06	2.9479E-06	2.9479E-06	0.0000E+00
NO	CVEH15_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0916E-06	5.1094E-06	5.1183E-06	5.0814E-06	5.0908E-06	5.0908E-06	5.0428E-06	5.0732E-06	5.0631E-06	5.0529E-06	5.0428E-06	5.0327E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8910E-06	4.8516E-06	4.8732E-06	4.8948E-06	4.8460E-06	4.8575E-06	4.8575E-06	4.8320E-06	4.8197E-06	4.8075E-06	4.8575E-06	4.8344E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8732E-06	4.8344E-06	4.8575E-06	4.8690E-06	4.8690E-06	4.8690E-06	4.8805E-06	4.8443E-06	4.8443E-06	4.8197E-06	4.7952E-06	4.7830E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6248E-06	4.5902E-06	4.6042E-06	4.6321E-06	4.5718E-06	4.5867E-06	4.6599E-06	4.6163E-06	4.6014E-06	4.5867E-06	4.5570E-06	4.6042E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5624E-06	4.5126E-06	4.5422E-06	4.5570E-06	4.5570E-06	4.5718E-06	4.5718E-06	4.5253E-06	4.5095E-06	4.4938E-06	4.4623E-06	4.4465E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3280E-06	4.2897E-06	4.3253E-06	4.3253E-06	4.3431E-06	4.3609E-06	4.3609E-06	4.2913E-06	4.2913E-06	4.2913E-06	4.2724E-06	4.3431E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3253E-06	4.3431E-06	4.2913E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.2597E-06	4.3290E-06	4.3101E-06	4.3101E-06	4.2913E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3076E-06	4.3609E-06	4.3101E-06	4.3668E-06	4.3668E-06	4.3668E-06	4.3479E-06	4.3668E-06	4.3290E-06	4.3101E-06	4.2913E-06	4.2536E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6199E-06	4.5958E-06	4.6460E-06	4.6628E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6099E-06	4.5921E-06	4.5743E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7852E-06	4.7991E-06	4.7792E-06	4.7941E-06	4.8089E-06	4.8236E-06	4.7617E-06	4.7774E-06	4.7617E-06	4.7458E-06	4.7301E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1035E-06	5.0783E-06	5.0532E-06	5.0762E-06	5.0528E-06	5.0528E-06	5.0406E-06	5.0039E-06	4.9778E-06	5.0038E-06	4.9792E-06	4.9792E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2284E-06	5.2070E-06	5.2070E-06	5.1761E-06	5.1855E-06	5.1855E-06	5.1950E-06	5.1845E-06	5.1743E-06	5.1541E-06	5.1338E-06	5.1136E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0916E-06	5.1094E-06	5.1183E-06	5.0814E-06	5.0908E-06	5.0908E-06	5.0428E-06	5.0732E-06	5.0631E-06	5.0529E-06	5.0428E-06	5.0327E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8910E-06	4.8516E-06	4.8732E-06	4.8948E-06	4.8460E-06	4.8575E-06	4.8575E-06	4.8320E-06	4.8197E-06	4.8075E-06	4.8575E-06	4.8344E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8732E-06	4.8344E-06	4.8575E-06	4.8690E-06	4.8690E-06	4.8690E-06	4.8805E-06	4.8443E-06	4.8443E-06	4.8197E-06	4.7952E-06	4.7830E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6248E-06	4.5902E-06	4.6042E-06	4.6321E-06	4.5718E-06	4.5867E-06	4.6599E-06	4.6163E-06	4.6014E-06	4.5867E-06	4.5570E-06	4.6042E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5624E-06	4.5126E-06	4.5422E-06	4.5570E-06	4.5570E-06	4.5718E-06	4.5718E-06	4.5253E-06	4.5095E-06	4.4938E-06	4.4623E-06	4.4465E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3280E-06	4.2897E-06	4.3253E-06	4.3253E-06	4.3431E-06	4.3609E-06	4.3609E-06	4.2913E-06	4.2913E-06	4.2913E-06	4.2724E-06	4.3431E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3253E-06	4.3431E-06	4.2913E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.2597E-06	4.3290E-06	4.3101E-06	4.3101E-06	4.2913E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3076E-06	4.3609E-06	4.3101E-06	4.3668E-06	4.3668E-06	4.3668E-06	4.3479E-06	4.3668E-06	4.3290E-06	4.3101E-06	4.2913E-06	4.2536E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6199E-06	4.5958E-06	4.6460E-06	4.6628E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6099E-06	4.5921E-06	4.5743E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7852E-06	4.7991E-06	4.7792E-06	4.7941E-06	4.8089E-06	4.8236E-06	4.7617E-06	4.7774E-06	4.7617E-06	4.7458E-06	4.7301E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1035E-06	5.0783E-06	5.0532E-06	5.0762E-06	5.0528E-06	5.0528E-06	5.0406E-06	5.0039E-06	4.9778E-06	5.0038E-06	4.9792E-06	4.9792E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2284E-06	5.2070E-06	5.2070E-06	5.1761E-06	5.1855E-06	5.1855E-06	5.1950E-06	5.1845E-06	5.1743E-06	5.1541E-06	5.1338E-06	5.1136E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0916E-06	5.1094E-06	5.1183E-06	5.0814E-06	5.0908E-06	5.0908E-06	5.0428E-06	5.0732E-06	5.0631E-06	5.0529E-06	5.0428E-06	5.0327E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8910E-06	4.8516E-06	4.8732E-06	4.8948E-06	4.8460E-06	4.8575E-06	4.8575E-06	4.8320E-06	4.8197E-06	4.8075E-06	4.8575E-06	4.8344E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8732E-06	4.8344E-06	4.8575E-06	4.8690E-06	4.8690E-06	4.8690E-06	4.8805E-06	4.8443E-06	4.8443E-06	4.8197E-06	4.7952E-06	4.7830E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6248E-06	4.5902E-06	4.6042E-06	4.6321E-06	4.5718E-06	4.5867E-06	4.6599E-06	4.6163E-06	4.6014E-06	4.5867E-06	4.5570E-06	4.6042E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5624E-06	4.5126E-06	4.5422E-06	4.5570E-06	4.5570E-06	4.5718E-06	4.5718E-06	4.5253E-06	4.5095E-06	4.4938E-06	4.4623E-06	4.4465E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3280E-06	4.2897E-06	4.3253E-06	4.3253E-06	4.3431E-06	4.3609E-06	4.3609E-06	4.2913E-06	4.2913E-06	4.2913E-06	4.2724E-06	4.3431E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3253E-06	4.3431E-06	4.2913E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.2597E-06	4.3290E-06	4.3101E-06	4.3101E-06	4.2913E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3076E-06	4.3609E-06	4.3101E-06	4.3668E-06	4.3668E-06	4.3668E-06	4.3479E-06	4.3668E-06	4.3290E-06	4.3101E-06	4.2913E-06	4.2536E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6199E-06	4.5958E-06	4.6460E-06	4.6628E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6099E-06	4.5921E-06	4.5743E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7852E-06	4.7991E-06	4.7792E-06	4.7941E-06	4.8089E-06	4.8236E-06	4.7617E-06	4.7774E-06	4.7617E-06	4.7458E-06	4.7301E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1035E-06	5.0783E-06	5.0532E-06	5.0762E-06	5.0528E-06	5.0528E-06	5.0406E-06	5.0039E-06	4.9778E-06	5.0038E-06	4.9792E-06	4.9792E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_3	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2284E-06	5.2070E-06	5.2070E-06	5.1761E-06	5.1855E-06	5.1855E-06	5.1950E-06	5.1845E-06	5.1743E-06	5.1541E-06	5.1338E-06	5.1136E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0916E-06	5.1094E-06	5.1183E-06	5.0814E-06	5.0908E-06	5.0908E-06	5.0428E-06	5.0732E-06	5.0631E-06	5.0529E-06	5.0428E-06	5.0327E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8910E-06	4.8516E-06	4.8732E-06	4.8948E-06	4.8460E-06	4.8575E-06	4.8575E-06	4.8320E-06	4.8197E-06	4.8075E-06	4.8575E-06	4.8344E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8732E-06	4.8344E-06	4.8575E-06	4.8690E-06	4.8690E-06	4.8690E-06	4.8805E-06	4.8443E-06	4.8443E-06	4.8197E-06	4.7952E-06	4.7830E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6248E-06	4.5902E-06	4.6042E-06	4.6321E-06	4.5718E-06	4.5867E-06	4.6599E-06	4.6163E-06	4.6014E-06	4.5867E-06	4.5570E-06	4.6042E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5624E-06	4.5126E-06	4.5422E-06	4.5570E-06	4.5570E-06	4.5718E-06	4.5718E-06	4.5253E-06	4.5095E-06	4.4938E-06	4.4623E-06	4.4465E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3280E-06	4.2897E-06	4.3253E-06	4.3253E-06	4.3431E-06	4.3609E-06	4.3609E-06	4.2913E-06	4.2913E-06	4.2913E-06	4.2724E-06	4.3431E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3253E-06	4.3431E-06	4.2913E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.2597E-06	4.3290E-06	4.3101E-06	4.3101E-06	4.2913E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3076E-06	4.3609E-06	4.3101E-06	4.3668E-06	4.3668E-06	4.3668E-06	4.3479E-06	4.3668E-06	4.3290E-06	4.3101E-06	4.2913E-06	4.2536E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6199E-06	4.5958E-06	4.6460E-06	4.6628E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6099E-06	4.5921E-06	4.5743E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7852E-06	4.7991E-06	4.7792E-06	4.7941E-06	4.8089E-06	4.8236E-06	4.7617E-06	4.7774E-06	4.7617E-06	4.7458E-06	4.7301E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1035E-06	5.0783E-06	5.0532E-06	5.0762E-06	5.0528E-06	5.0528E-06	5.0406E-06	5.0039E-06	4.9778E-06	5.0038E-06	4.9792E-06	4.9792E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_4	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2284E-06	5.2070E-06	5.2070E-06	5.1761E-06	5.1855E-06	5.1855E-06	5.1950E-06	5.1845E-06	5.1743E-06	5.1541E-06	5.1338E-06	5.1136E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0183E-05	1.0219E-05	1.0237E-05	1.0163E-05	1.0182E-05	1.0182E-05	1.0086E-05	1.0146E-05	1.0126E-05	1.0106E-05	1.0086E-05	1.0065E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7821E-06	9.7031E-06	9.7465E-06	9.7897E-06	9.6919E-06	9.7149E-06	9.7149E-06	9.6640E-06	9.6395E-06	9.6149E-06	9.7149E-06	9.6688E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7465E-06	9.6688E-06	9.7149E-06	9.7380E-06	9.7380E-06	9.7380E-06	9.7610E-06	9.6886E-06	9.6886E-06	9.6395E-06	9.5903E-06	9.5659E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2496E-06	9.1805E-06	9.2084E-06	9.2641E-06	9.1437E-06	9.1734E-06	9.3198E-06	9.2326E-06	9.2029E-06	9.1734E-06	9.1140E-06	9.2084E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1249E-06	9.0252E-06	9.0844E-06	9.1140E-06	9.1140E-06	9.1437E-06	9.1437E-06	9.0506E-06	9.0189E-06	8.9875E-06	8.9246E-06	8.8930E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6559E-06	8.5795E-06	8.6506E-06	8.6506E-06	8.6862E-06	8.7218E-06	8.7218E-06	8.5826E-06	8.5826E-06	8.5826E-06	8.5448E-06	8.6862E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6506E-06	8.6862E-06	8.5826E-06	8.6581E-06	8.6581E-06	8.6581E-06	8.6581E-06	8.5194E-06	8.6581E-06	8.6203E-06	8.6203E-06	8.5826E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6151E-06	8.7218E-06	8.6203E-06	8.7336E-06	8.7336E-06	8.7336E-06	8.6959E-06	8.7336E-06	8.6581E-06	8.6203E-06	8.5826E-06	8.5071E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2397E-06	9.1917E-06	9.2921E-06	9.3255E-06	9.2197E-06	9.2552E-06	9.2197E-06	9.2552E-06	9.2197E-06	9.2197E-06	9.1842E-06	9.1486E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5704E-06	9.5983E-06	9.5584E-06	9.5882E-06	9.6178E-06	9.6473E-06	9.5233E-06	9.5547E-06	9.5233E-06	9.4916E-06	9.4602E-06	9.4287E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0207E-05	1.0157E-05	1.0106E-05	1.0152E-05	1.0106E-05	1.0106E-05	1.0081E-05	1.0008E-05	9.9556E-06	1.0008E-05	9.9584E-06	9.9584E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_5	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0457E-05	1.0414E-05	1.0414E-05	1.0352E-05	1.0371E-05	1.0371E-05	1.0390E-05	1.0369E-05	1.0349E-05	1.0308E-05	1.0268E-05	1.0227E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0183E-05	1.0219E-05	1.0237E-05	1.0163E-05	1.0182E-05	1.0182E-05	1.0086E-05	1.0146E-05	1.0126E-05	1.0106E-05	1.0086E-05	1.0065E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7821E-06	9.7031E-06	9.7465E-06	9.7897E-06	9.6919E-06	9.7149E-06	9.7149E-06	9.6640E-06	9.6395E-06	9.6149E-06	9.7149E-06	9.6688E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7465E-06	9.6688E-06	9.7149E-06	9.7380E-06	9.7380E-06	9.7380E-06	9.7610E-06	9.6886E-06	9.6886E-06	9.6395E-06	9.5903E-06	9.5659E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2496E-06	9.1805E-06	9.2084E-06	9.2641E-06	9.1437E-06	9.1734E-06	9.3198E-06	9.2326E-06	9.2029E-06	9.1734E-06	9.1140E-06	9.2084E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1249E-06	9.0252E-06	9.0844E-06	9.1140E-06	9.1140E-06	9.1437E-06	9.1437E-06	9.0506E-06	9.0189E-06	8.9875E-06	8.9246E-06	8.8930E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6559E-06	8.5795E-06	8.6506E-06	8.6506E-06	8.6862E-06	8.7218E-06	8.7218E-06	8.5826E-06	8.5826E-06	8.5826E-06	8.5448E-06	8.6862E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6506E-06	8.6862E-06	8.5826E-06	8.6581E-06	8.6581E-06	8.6581E-06	8.6581E-06	8.5194E-06	8.6581E-06	8.6203E-06	8.6203E-06	8.5826E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6151E-06	8.7218E-06	8.6203E-06	8.7336E-06	8.7336E-06	8.7336E-06	8.6959E-06	8.7336E-06	8.6581E-06	8.6203E-06	8.5826E-06	8.5071E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2397E-06	9.1917E-06	9.2921E-06	9.3255E-06	9.2197E-06	9.2552E-06	9.2197E-06	9.2552E-06	9.2197E-06	9.2197E-06	9.1842E-06	9.1486E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5704E-06	9.5983E-06	9.5584E-06	9.5882E-06	9.6178E-06	9.6473E-06	9.5233E-06	9.5547E-06	9.5233E-06	9.4916E-06	9.4602E-06	9.4287E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0207E-05	1.0157E-05	1.0106E-05	1.0152E-05	1.0106E-05	1.0106E-05	1.0081E-05	1.0008E-05	9.9556E-06	1.0008E-05	9.9584E-06	9.9584E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_6	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0457E-05	1.0414E-05	1.0414E-05	1.0352E-05	1.0371E-05	1.0371E-05	1.0390E-05	1.0369E-05	1.0349E-05	1.0308E-05	1.0268E-05	1.0227E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0183E-05	1.0219E-05	1.0237E-05	1.0163E-05	1.0182E-05	1.0182E-05	1.0086E-05	1.0146E-05	1.0126E-05	1.0106E-05	1.0086E-05	1.0065E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7821E-06	9.7031E-06	9.7465E-06	9.7897E-06	9.6919E-06	9.7149E-06	9.7149E-06	9.6640E-06	9.6395E-06	9.6149E-06	9.7149E-06	9.6688E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7465E-06	9.6688E-06	9.7149E-06	9.7380E-06	9.7380E-06	9.7380E-06	9.7610E-06	9.6886E-06	9.6886E-06	9.6395E-06	9.5903E-06	9.5659E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2496E-06	9.1805E-06	9.2084E-06	9.2641E-06	9.1437E-06	9.1734E-06	9.3198E-06	9.2326E-06	9.2029E-06	9.1734E-06	9.1140E-06	9.2084E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1249E-06	9.0252E-06	9.0844E-06	9.1140E-06	9.1140E-06	9.1437E-06	9.1437E-06	9.0506E-06	9.0189E-06	8.9875E-06	8.9246E-06	8.8930E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6559E-06	8.5795E-06	8.6506E-06	8.6506E-06	8.6862E-06	8.7218E-06	8.7218E-06	8.5826E-06	8.5826E-06	8.5826E-06	8.5448E-06	8.6862E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6506E-06	8.6862E-06	8.5826E-06	8.6581E-06	8.6581E-06	8.6581E-06	8.6581E-06	8.5194E-06	8.6581E-06	8.6203E-06	8.6203E-06	8.5826E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6151E-06	8.7218E-06	8.6203E-06	8.7336E-06	8.7336E-06	8.7336E-06	8.6959E-06	8.7336E-06	8.6581E-06	8.6203E-06	8.5826E-06	8.5071E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2397E-06	9.1917E-06	9.2921E-06	9.3255E-06	9.2197E-06	9.2552E-06	9.2197E-06	9.2552E-06	9.2197E-06	9.2197E-06	9.1842E-06	9.1486E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5704E-06	9.5983E-06	9.5584E-06	9.5882E-06	9.6178E-06	9.6473E-06	9.5233E-06	9.5547E-06	9.5233E-06	9.4916E-06	9.4602E-06	9.4287E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0207E-05	1.0157E-05	1.0106E-05	1.0152E-05	1.0106E-05	1.0106E-05	1.0081E-05	1.0008E-05	9.9556E-06	1.0008E-05	9.9584E-06	9.9584E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_7	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0457E-05	1.0414E-05	1.0414E-05	1.0352E-05	1.0371E-05	1.0371E-05	1.0390E-05	1.0369E-05	1.0349E-05	1.0308E-05	1.0268E-05	1.0227E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0183E-05	1.0219E-05	1.0237E-05	1.0163E-05	1.0182E-05	1.0182E-05	1.0086E-05	1.0146E-05	1.0126E-05	1.0106E-05	1.0086E-05	1.0065E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7821E-06	9.7031E-06	9.7465E-06	9.7897E-06	9.6919E-06	9.7149E-06	9.7149E-06	9.6640E-06	9.6395E-06	9.6149E-06	9.7149E-06	9.6688E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	CVEH15_8	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7465E-06	9.6688E-06	9.7149E-06	9.7380E-06	9.7380E-06	9.7380E-06	9.7610E-06	9.6886E-06	9.6886E-06	9.6395E-06	9.5903E-06	9.5659E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2496E-06	9.1805E-06	9.2084E-06	9.2641E-06	9.1437E-06	9.1734E-06	9.3198E-06	9.2326E-06	9.2029E-06	9.1734E-06	9.1140E-06	9.2084E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1249E-06	9.0252E-06	9.0844E-06	9.1140E-06	9.1140E-06	9.1437E-06	9.1437E-06	9.0506E-06	9.0189E-06	8.9875E-06	8.9246E-06	8.8930E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6559E-06	8.5795E-06	8.6506E-06	8.6506E-06	8.6862E-06	8.7218E-06	8.7218E-06	8.5826E-06	8.5826E-06	8.5826E-06	8.5448E-06	8.6862E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6506E-06	8.6862E-06	8.5826E-06	8.6581E-06	8.6581E-06	8.6581E-06	8.6581E-06	8.5194E-06	8.6581E-06	8.6203E-06	8.6203E-06	8.5826E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6151E-06	8.7218E-06	8.6203E-06	8.7336E-06	8.7336E-06	8.7336E-06	8.6959E-06	8.7336E-06	8.6581E-06	8.6203E-06	8.5826E-06	8.5071E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.2397E-06	9.1917E-06	9.2921E-06	9.3255E-06	9.2197E-06	9.2552E-06	9.2197E-06	9.2552E-06	9.2197E-06	9.2197E-06	9.1842E-06	9.1486E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5704E-06	9.5983E-06	9.5584E-06	9.5882E-06	9.6178E-06	9.6473E-06	9.5233E-06	9.5547E-06	9.5233E-06	9.4916E-06	9.4602E-06	9.4287E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0207E-05	1.0157E-05	1.0106E-05	1.0152E-05	1.0106E-05	1.0106E-05	1.0081E-05	1.0008E-05	9.9556E-06	1.0008E-05	9.9584E-06	9.9584E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_8	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0457E-05	1.0414E-05	1.0414E-05	1.0352E-05	1.0371E-05	1.0371E-05	1.0390E-05	1.0369E-05	1.0349E-05	1.0308E-05	1.0268E-05	1.0227E-05	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0916E-06	5.1094E-06	5.1183E-06	5.0814E-06	5.0908E-06	5.0908E-06	5.0428E-06	5.0732E-06	5.0631E-06	5.0529E-06	5.0428E-06	5.0327E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8910E-06	4.8516E-06	4.8732E-06	4.8948E-06	4.8460E-06	4.8575E-06	4.8575E-06	4.8320E-06	4.8197E-06	4.8075E-06	4.8575E-06	4.8344E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8732E-06	4.8344E-06	4.8575E-06	4.8690E-06	4.8690E-06	4.8690E-06	4.8805E-06	4.8443E-06	4.8443E-06	4.8197E-06	4.7952E-06	4.7830E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6248E-06	4.5902E-06	4.6042E-06	4.6321E-06	4.5718E-06	4.5867E-06	4.6599E-06	4.6163E-06	4.6014E-06	4.5867E-06	4.5570E-06	4.6042E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5624E-06	4.5126E-06	4.5422E-06	4.5570E-06	4.5570E-06	4.5718E-06	4.5718E-06	4.5253E-06	4.5095E-06	4.4938E-06	4.4623E-06	4.4465E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3280E-06	4.2897E-06	4.3253E-06	4.3253E-06	4.3431E-06	4.3609E-06	4.3609E-06	4.2913E-06	4.2913E-06	4.2913E-06	4.2724E-06	4.3431E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3253E-06	4.3431E-06	4.2913E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.3290E-06	4.2597E-06	4.3290E-06	4.3101E-06	4.3101E-06	4.2913E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3076E-06	4.3609E-06	4.3101E-06	4.3668E-06	4.3668E-06	4.3668E-06	4.3479E-06	4.3668E-06	4.3290E-06	4.3101E-06	4.2913E-06	4.2536E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6199E-06	4.5958E-06	4.6460E-06	4.6628E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6276E-06	4.6099E-06	4.6099E-06	4.5921E-06	4.5743E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.7852E-06	4.7991E-06	4.7792E-06	4.7941E-06	4.8089E-06	4.8236E-06	4.7617E-06	4.7774E-06	4.7617E-06	4.7458E-06	4.7301E-06	4.7143E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.1035E-06	5.0783E-06	5.0532E-06	5.0762E-06	5.0528E-06	5.0528E-06	5.0406E-06	5.0039E-06	4.9778E-06	5.0038E-06	4.9792E-06	4.9792E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH15_9	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2284E-06	5.2070E-06	5.2070E-06	5.1761E-06	5.1855E-06	5.1855E-06	5.1950E-06	5.1845E-06	5.1743E-06	5.1541E-06	5.1338E-06	5.1136E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	CVEH16_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1750E-06	1.1791E-06	1.1811E-06	1.1726E-06	1.1748E-06	1.1748E-06	1.1637E-06	1.1707E-06	1.1684E-06	1.1661E-06	1.1637E-06	1.1614E-06	1.1591E-06	1.1521E-06	1.1521E-06	1.1661E-06	0.0000E+00
NO	CVEH16_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1287E-06	1.1196E-06	1.1246E-06	1.1296E-06	1.1183E-06	1.1210E-06	1.1210E-06	1.1151E-06	1.1122E-06	1.1094E-06	1.1210E-06	1.1156E-06	1.1130E-06	1.1171E-06	1.1171E-06	1.1146E-06	0.0000E+00
NO	CVEH16_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1246E-06	1.1156E-06	1.1210E-06	1.1236E-06	1.1236E-06	1.1236E-06	1.1263E-06	1.1179E-06	1.1179E-06	1.1122E-06	1.1066E-06	1.1038E-06	1.1009E-06	1.1077E-06	1.1077E-06	1.1077E-06	0.0000E+00
NO	CVEH16_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0673E-06	1.0593E-06	1.0625E-06	1.0689E-06	1.0550E-06	1.0585E-06	1.0754E-06	1.0653E-06	1.0619E-06	1.0585E-06	1.0516E-06	1.0625E-06	1.0448E-06	1.0529E-06	1.0497E-06	1.0497E-06	0.0000E+00
NO	CVEH16_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0529E-06	1.0414E-06	1.0482E-06	1.0516E-06	1.0516E-06	1.0550E-06	1.0550E-06	1.0443E-06	1.0406E-06	1.0370E-06	1.0298E-06	1.0261E-06	1.0414E-06	1.0311E-06	1.0277E-06	1.0277E-06	0.0000E+00
NO	CVEH16_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9876E-07	9.8994E-07	9.9815E-07	9.9815E-07	1.0023E-06	1.0064E-06	1.0064E-06	9.9030E-07	9.9030E-07	9.9030E-07	9.8594E-07	1.0023E-06	1.0023E-06	9.8584E-07	9.8173E-07	9.8173E-07	0.0000E+00
NO	CVEH16_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9815E-07	1.0023E-06	9.9030E-07	9.9901E-07	9.9901E-07	9.9901E-07	9.9901E-07	9.8301E-07	9.9901E-07	9.9465E-07	9.9465E-07	9.9030E-07	9.8594E-07	9.9815E-07	9.9815E-07	9.9405E-07	0.0000E+00
NO	CVEH16_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9405E-07	1.0064E-06	9.9465E-07	1.0077E-06	1.0077E-06	1.0077E-06	1.0034E-06	1.0077E-06	9.9901E-07	9.9465E-07	9.9030E-07	9.8159E-07	9.8159E-07	9.9405E-07	9.8994E-07	9.8994E-07	0.0000E+00
NO	CVEH16_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0661E-06	1.0606E-06	1.0722E-06	1.0760E-06	1.0638E-06	1.0679E-06	1.0638E-06	1.0679E-06	1.0638E-06	1.0638E-06	1.0597E-06	1.0556E-06	1.0556E-06	1.0474E-06	1.0606E-06	1.0567E-06	0.0000E+00
NO	CVEH16_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1043E-06	1.1075E-06	1.1029E-06	1.1063E-06	1.1097E-06	1.1131E-06	1.0988E-06	1.1025E-06	1.0988E-06	1.0952E-06	1.0916E-06	1.0879E-06	1.0806E-06	1.0770E-06	1.0892E-06	1.0926E-06	0.0000E+00
NO	CVEH16_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1777E-06	1.1719E-06	1.1661E-06	1.1714E-06	1.1660E-06	1.1660E-06	1.1632E-06	1.1547E-06	1.1487E-06	1.1547E-06	1.1491E-06	1.1491E-06	1.1462E-06	1.1406E-06	1.1406E-06	1.1528E-06	0.0000E+00
NO	CVEH16_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2066E-06	1.2016E-06	1.2016E-06	1.1945E-06	1.1967E-06	1.1967E-06	1.1988E-06	1.1964E-06	1.1941E-06	1.1894E-06	1.1847E-06	1.1801E-06	1.1801E-06	1.1814E-06	1.1792E-06	1.1792E-06	0.0000E+00
NO	CVEH16_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1750E-06	1.1791E-06	1.1811E-06	1.1726E-06	1.1748E-06	1.1748E-06	1.1637E-06	1.1707E-06	1.1684E-06	1.1661E-06	1.1637E-06	1.1614E-06	1.1591E-06	1.1521E-06	1.1521E-06	1.1661E-06	0.0000E+00
NO	CVEH16_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1287E-06	1.1196E-06	1.1246E-06	1.1296E-06	1.1183E-06	1.1210E-06	1.1210E-06	1.1151E-06	1.1122E-06	1.1094E-06	1.1210E-06	1.1156E-06	1.1130E-06	1.1171E-06	1.1171E-06	1.1146E-06	0.0000E+00
NO	CVEH16_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1246E-06	1.1156E-06	1.1210E-06	1.1236E-06	1.1236E-06	1.1236E-06	1.1263E-06	1.1179E-06	1.1179E-06	1.1122E-06	1.1066E-06	1.1038E-06	1.1009E-06	1.1077E-06	1.1077E-06	1.1077E-06	0.0000E+00
NO	CVEH16_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0673E-06	1.0593E-06	1.0625E-06	1.0689E-06	1.0550E-06	1.0585E-06	1.0754E-06	1.0653E-06	1.0619E-06	1.0585E-06	1.0516E-06	1.0625E-06	1.0448E-06	1.0529E-06	1.0497E-06	1.0497E-06	0.0000E+00
NO	CVEH16_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0529E-06	1.0414E-06	1.0482E-06	1.0516E-06	1.0516E-06	1.0550E-06	1.0550E-06	1.0443E-06	1.0406E-06	1.0370E-06	1.0298E-06	1.0261E-06	1.0414E-06	1.0311E-06	1.0277E-06	1.0277E-06	0.0000E+00
NO	CVEH16_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9876E-07	9.8994E-07	9.9815E-07	9.9815E-07	1.0023E-06	1.0064E-06	1.0064E-06	9.9030E-07	9.9030E-07	9.9030E-07	9.8594E-07	1.0023E-06	1.0023E-06	9.8584E-07	9.8173E-07	9.8173E-07	0.0000E+00
NO	CVEH16_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9815E-07	1.0023E-06	9.9030E-07	9.9901E-07	9.9901E-07	9.9901E-07	9.9901E-07	9.8301E-07	9.9901E-07	9.9465E-07	9.9465E-07	9.9030E-07	9.8594E-07	9.9815E-07	9.9815E-07	9.9405E-07	0.0000E+00
NO	CVEH16_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9405E-07	1.0064E-06	9.9465E-07	1.0077E-06	1.0077E-06	1.0077E-06	1.0034E-06	1.0077E-06	9.9901E-07	9.9465E-07	9.9030E-07	9.8159E-07	9.8159E-07	9.9405E-07	9.8994E-07	9.8994E-07	0.0000E+00
NO	CVEH16_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0661E-06	1.0606E-06	1.0722E-06	1.0760E-06	1.0638E-06	1.0679E-06	1.0638E-06	1.0679E-06	1.0638E-06	1.0638E-06	1.0597E-06	1.0556E-06	1.0556E-06	1.0474E-06	1.0606E-06	1.0567E-06	0.0000E+00
NO	CVEH16_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1043E-06	1.1075E-06	1.1029E-06	1.1063E-06	1.1097E-06	1.1131E-06	1.0988E-06	1.1025E-06	1.0988E-06	1.0952E-06	1.0916E-06	1.0879E-06	1.0806E-06	1.0770E-06	1.0892E-06	1.0926E-06	0.0000E+00
NO	CVEH16_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1777E-06	1.1719E-06	1.1661E-06	1.1714E-06	1.1660E-06	1.1660E-06	1.1632E-06	1.1547E-06	1.1487E-06	1.1547E-06	1.1491E-06	1.1491E-06	1.1462E-06	1.1406E-06	1.1406E-06	1.1528E-06	0.0000E+00
NO	CVEH16_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2066E-06	1.2016E-06	1.2016E-06	1.1945E-06	1.1967E-06	1.1967E-06	1.1988E-06	1.1964E-06	1.1941E-06	1.1894E-06	1.1847E-06	1.1801E-06	1.1801E-06	1.1814E-06	1.1792E-06	1.1792E-06	0.0000E+00
NO	R1a_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3097E-06	8.2533E-06	8.3143E-06	8.2398E-06	8.2833E-06	8.2833E-06	8.1625E-06	8.1392E-06	8.1964E-06	8.1529E-06	8.1093E-06	8.0876E-06	8.0224E-06	8.1311E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7914E-06	7.7607E-06	7.8349E-06	7.7620E-06	7.7882E-06	7.8146E-06	7.8146E-06	7.7882E-06	7.7354E-06	7.7607E-06	7.7111E-06	7.6616E-06	7.7217E-06	7.6984E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7854E-06	7.7354E-06	7.7882E-06	7.8146E-06	7.8146E-06	7.7168E-06	7.7168E-06	7.6887E-06	7.7354E-06	7.6828E-06	7.6036E-06	7.7111E-06	7.6616E-06	7.6122E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1609E-06	7.2247E-06	7.2005E-06	7.2343E-06	7.2680E-06	7.2680E-06	7.2680E-06	7.2343E-06	7.2883E-06	7.1929E-06	7.2566E-06	7.2268E-06	7.1369E-06	7.1070E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1292E-06	7.0650E-06	7.1327E-06	7.1665E-06	7.1665E-06	7.1665E-06	7.0409E-06	7.0050E-06	7.0650E-06	6.9633E-06	6.8958E-06	7.0337E-06	6.9381E-06	6.9064E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6440E-06	6.6162E-06	6.6566E-06	6.7379E-06	6.7784E-06	6.7784E-06	6.5556E-06	6.7379E-06	6.6973E-06	6.6162E-06	6.6821E-06	6.6821E-06	6.5294E-06	6.4911E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6162E-06	6.7379E-06	6.6847E-06	6.7277E-06	6.7707E-06	6.7277E-06	6.7277E-06	6.6847E-06	6.5986E-06	6.6973E-06	6.6162E-06	6.5756E-06	6.6440E-06	6.6058E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7968E-06	6.7784E-06	6.7277E-06	6.8138E-06	6.7707E-06	6.7277E-06	6.7277E-06	6.6416E-06	6.7379E-06	6.6162E-06	6.5349E-06	6.4945E-06	6.6058E-06	6.5675E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2927E-06	7.2936E-06	7.3701E-06	7.3057E-06	7.3463E-06	7.3057E-06	7.3057E-06	7.2652E-06	7.2246E-06	7.2936E-06	7.2172E-06	7.1790E-06	7.2568E-06	7.1849E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6067E-06	7.6704E-06	7.6405E-06	7.7081E-06	7.7081E-06	7.7081E-06	7.7422E-06	7.7081E-06	7.6066E-06	7.5390E-06	7.4712E-06	7.4036E-06	7.5112E-06	7.4794E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.2784E-06	8.2554E-06	8.2365E-06	8.2893E-06	8.2893E-06	8.1945E-06	8.1663E-06	8.0819E-06	8.1047E-06	8.0255E-06	7.9992E-06	7.9728E-06	8.0575E-06	8.0327E-06	0.0000E+00	0.0000E+00
NO	R1a_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5195E-06	8.5575E-06	8.5179E-06	8.5382E-06	8.4789E-06	8.5007E-06	8.4407E-06	8.3944E-06	8.4354E-06	8.3485E-06	8.3050E-06	8.3755E-06	8.3143E-06	8.3860E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3097E-06	8.2736E-06	8.2181E-06	8.2398E-06	8.2833E-06	8.2833E-06	8.1625E-06	8.1392E-06	8.1964E-06	8.1529E-06	8.1093E-06	8.0876E-06	8.0224E-06	8.0224E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7914E-06	7.7607E-06	7.8349E-06	7.7620E-06	7.7882E-06	7.7882E-06	7.7882E-06	7.7620E-06	7.7092E-06	7.7607E-06	7.7111E-06	7.6616E-06	7.7217E-06	7.6984E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7854E-06	7.7092E-06	7.7882E-06	7.8146E-06	7.7882E-06	7.6887E-06	7.6887E-06	7.6606E-06	7.7354E-06	7.6564E-06	7.6036E-06	7.7111E-06	7.6616E-06	7.6122E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1292E-06	7.1929E-06	7.2883E-06	7.2005E-06	7.2005E-06	7.2005E-06	7.2343E-06	7.2005E-06	7.2883E-06	7.1609E-06	7.2268E-06	7.2268E-06	7.1369E-06	7.1070E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1292E-06	7.0650E-06	7.0988E-06	7.1327E-06	7.1665E-06	7.1665E-06	7.0409E-06	6.9689E-06	7.0311E-06	6.9633E-06	6.8958E-06	7.0337E-06	6.9381E-06	6.9064E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6440E-06	6.5756E-06	6.6566E-06	6.6566E-06	6.7379E-06	6.6973E-06	6.6973E-06	6.6973E-06	6.6566E-06	6.6162E-06	6.6821E-06	6.6821E-06	6.5294E-06	6.4911E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.5756E-06	6.6973E-06	6.6416E-06	6.6847E-06	6.6847E-06	6.6847E-06	6.6847E-06	6.6416E-06	6.5556E-06	6.6973E-06	6.6162E-06	6.5756E-06	6.6440E-06	6.6440E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6162E-06	6.7784E-06	6.7277E-06	6.7707E-06	6.7277E-06	6.6847E-06	6.6847E-06	6.6416E-06	6.7379E-06	6.6162E-06	6.4945E-06	6.4945E-06	6.6058E-06	6.5675E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2927E-06	7.2555E-06	7.3701E-06	7.3057E-06	7.3057E-06	7.3057E-06	7.3057E-06	7.2246E-06	7.1841E-06	7.2936E-06	7.2172E-06	7.1790E-06	7.2568E-06	7.2208E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6067E-06	7.6704E-06	7.6405E-06	7.6744E-06	7.7081E-06	7.7081E-06	7.6166E-06	7.6744E-06	7.6066E-06	7.5390E-06	7.4712E-06	7.4036E-06	7.5112E-06	7.4794E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.2784E-06	8.2554E-06	8.2365E-06	8.2893E-06	8.1945E-06	8.1945E-06	8.1663E-06	8.0819E-06	8.1047E-06	8.0255E-06	7.9992E-06	7.9728E-06	7.9465E-06	8.0327E-06	0.0000E+00	0.0000E+00
NO	R1b_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5195E-06	8.4773E-06	8.5179E-06	8.4571E-06	8.4789E-06	8.5007E-06	8.4407E-06	8.3944E-06	8.4138E-06	8.3485E-06	8.3050E-06	8.3755E-06	8.3143E-06	8.3860E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.3097E-06	8.2533E-06	8.3143E-06	8.2398E-06	8.2833E-06	8.2833E-06	8.1625E-06	8.1392E-06	8.1964E-06	8.1529E-06	8.1093E-06	8.0876E-06	8.0224E-06	8.1311E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7914E-06	7.7607E-06	7.8349E-06	7.7620E-06	7.7882E-06	7.8146E-06	7.8146E-06	7.7882E-06	7.7354E-06	7.7607E-06	7.7111E-06	7.6616E-06	7.7217E-06	7.6984E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7854E-06	7.7354E-06	7.7882E-06	7.8146E-06	7.8146E-06	7.7168E-06	7.7168E-06	7.6887E-06	7.7354E-06	7.6828E-06	7.6036E-06	7.7111E-06	7.6616E-06	7.6122E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1609E-06	7.2247E-06	7.2005E-06	7.2343E-06	7.2680E-06	7.2680E-06	7.2680E-06	7.2343E-06	7.2883E-06	7.1929E-06	7.2566E-06	7.2268E-06	7.1369E-06	7.1070E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.1292E-06	7.0650E-06	7.1327E-06	7.1665E-06	7.1665E-06	7.1665E-06	7.0409E-06	7.0050E-06	7.0650E-06	6.9633E-06	6.8958E-06	7.0337E-06	6.9381E-06	6.9064E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6440E-06	6.6162E-06	6.6566E-06	6.7379E-06	6.7784E-06	6.7784E-06	6.5556E-06	6.7379E-06	6.6973E-06	6.6162E-06	6.6821E-06	6.6821E-06	6.5294E-06	6.4911E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6162E-06	6.7379E-06	6.6847E-06	6.7277E-06	6.7707E-06	6.7277E-06	6.7277E-06	6.6847E-06	6.5986E-06	6.6973E-06	6.6162E-06	6.5756E-06	6.6440E-06	6.6058E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7968E-06	6.7784E-06	6.7277E-06	6.8138E-06	6.7707E-06	6.7277E-06	6.7277E-06	6.6416E-06	6.7379E-06	6.6162E-06	6.5349E-06	6.4945E-06	6.6058E-06	6.5675E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2927E-06	7.2936E-06	7.3701E-06	7.3057E-06	7.3463E-06	7.3057E-06	7.3057E-06	7.2652E-06	7.2246E-06	7.2936E-06	7.2172E-06	7.1790E-06	7.2568E-06	7.1849E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6067E-06	7.6704E-06	7.6405E-06	7.7081E-06	7.7081E-06	7.7081E-06	7.7422E-06	7.7081E-06	7.6066E-06	7.5390E-06	7.4712E-06	7.4036E-06	7.5112E-06	7.4794E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.2784E-06	8.2554E-06	8.2365E-06	8.2893E-06	8.2893E-06	8.1945E-06	8.1663E-06	8.0819E-06	8.1047E-06	8.0255E-06	7.9992E-06	7.9728E-06	8.0575E-06	8.0327E-06	0.0000E+00	0.0000E+00
NO	R1b_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5195E-06	8.5575E-06	8.5179E-06	8.5382E-06	8.4789E-06	8.5007E-06	8.4407E-06	8.3944E-06	8.4354E-06	8.3485E-06	8.3050E-06	8.3755E-06	8.3143E-06	8.3860E-06	0.0000E+00	0.0000E+00
NO	R2a_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1975E-05	2.7915E-05	3.1883E-05	2.5261E-05	2.0975E-05	2.4049E-05	2.6328E-05	2.4019E-05	2.1125E-05	1.3665E-05	3.3979E-06	8.2985E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1225E-05	2.6243E-05	3.0038E-05	2.3791E-05	1.9717E-05	2.2684E-05	2.5203E-05	2.2980E-05	1.9933E-05	1.3005E-05	3.2305E-06	7.8600E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1216E-05	2.6157E-05	2.9858E-05	2.3953E-05	1.9784E-05	2.2398E-05	2.4886E-05	2.2685E-05	1.9933E-05	1.2874E-05	3.1853E-06	7.9109E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0314E-05	2.4425E-05	2.7599E-05	2.2169E-05	1.8396E-05	2.1092E-05	2.3435E-05	2.1340E-05	1.8778E-05	1.2051E-05	3.0395E-06	7.4123E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.3883E-05	2.7338E-05	2.1961E-05	1.8138E-05	2.0797E-05	2.2700E-05	2.0662E-05	1.8200E-05	1.1665E-05	2.8879E-06	7.2137E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5670E-06	2.2361E-05	2.5508E-05	2.0643E-05	1.7153E-05	1.9667E-05	2.1131E-05	1.9872E-05	1.7250E-05	1.1082E-05	2.7981E-06	6.8520E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5267E-06	2.2774E-05	2.5615E-05	2.0612E-05	1.7134E-05	1.9520E-05	2.1687E-05	1.9714E-05	1.6996E-05	1.1218E-05	2.7704E-06	6.7423E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7879E-06	2.2911E-05	2.5781E-05	2.0877E-05	1.7134E-05	1.9520E-05	2.1687E-05	1.9587E-05	1.7355E-05	1.1082E-05	2.7363E-06	6.6589E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0504E-05	2.4658E-05	2.8250E-05	2.2388E-05	1.8595E-05	2.1202E-05	2.3556E-05	2.1432E-05	1.8613E-05	1.2220E-05	3.0229E-06	7.3632E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	R2a_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0958E-05	2.5936E-05	2.9290E-05	2.3626E-05	1.9514E-05	2.2374E-05	2.4968E-05	2.2743E-05	1.9600E-05	1.2632E-05	3.1296E-06	7.5942E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1929E-05	2.7920E-05	3.1582E-05	2.5412E-05	2.0989E-05	2.3789E-05	2.6340E-05	2.3849E-05	2.0887E-05	1.3450E-05	3.3515E-06	8.1800E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2a_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2277E-05	2.8947E-05	3.2665E-05	2.6179E-05	2.1471E-05	2.4681E-05	2.7229E-05	2.4774E-05	2.1743E-05	1.3993E-05	3.4801E-06	8.5948E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1975E-05	2.7983E-05	3.1512E-05	2.5261E-05	2.0975E-05	2.4049E-05	2.6328E-05	2.4019E-05	2.1125E-05	1.3665E-05	3.3979E-06	8.2985E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1225E-05	2.6243E-05	3.0038E-05	2.3791E-05	1.9717E-05	2.2607E-05	2.5117E-05	2.2902E-05	1.9865E-05	1.3005E-05	3.2305E-06	7.8600E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1216E-05	2.6068E-05	2.9858E-05	2.3953E-05	1.9717E-05	2.2317E-05	2.4795E-05	2.2602E-05	1.9933E-05	1.2830E-05	3.1853E-06	7.9109E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.4317E-05	2.7936E-05	2.2065E-05	1.8225E-05	2.0896E-05	2.3325E-05	2.1241E-05	1.8778E-05	1.1997E-05	3.0269E-06	7.4123E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.3883E-05	2.7208E-05	2.1857E-05	1.8138E-05	2.0797E-05	2.2700E-05	2.0555E-05	1.8113E-05	1.1665E-05	2.8879E-06	7.2137E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5670E-06	2.2223E-05	2.5508E-05	2.0394E-05	1.7050E-05	1.9431E-05	2.1589E-05	1.9752E-05	1.7146E-05	1.1082E-05	2.7981E-06	6.8520E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4681E-06	2.2636E-05	2.5450E-05	2.0480E-05	1.6915E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.6884E-05	1.1218E-05	2.7704E-06	6.7423E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5267E-06	2.2911E-05	2.5781E-05	2.0744E-05	1.7025E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.7355E-05	1.1082E-05	2.7193E-06	6.6589E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0504E-05	2.4529E-05	2.8250E-05	2.2388E-05	1.8492E-05	2.1202E-05	2.3556E-05	2.1312E-05	1.8508E-05	1.2220E-05	3.0229E-06	7.3632E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0958E-05	2.5936E-05	2.9290E-05	2.3522E-05	1.9514E-05	2.2374E-05	2.4562E-05	2.2643E-05	1.9600E-05	1.2632E-05	3.1296E-06	7.5942E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1929E-05	2.7920E-05	3.1582E-05	2.5412E-05	2.0748E-05	2.3789E-05	2.6340E-05	2.3849E-05	2.0887E-05	1.3450E-05	3.3515E-06	8.1800E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2b_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2277E-05	2.8674E-05	3.2665E-05	2.5929E-05	2.1471E-05	2.4681E-05	2.7229E-05	2.4774E-05	2.1687E-05	1.3993E-05	3.4801E-06	8.5948E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1975E-05	2.7983E-05	3.1512E-05	2.5261E-05	2.0975E-05	2.4049E-05	2.6328E-05	2.4019E-05	2.1125E-05	1.3665E-05	3.3979E-06	8.2985E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1225E-05	2.6243E-05	3.0038E-05	2.3791E-05	1.9717E-05	2.2607E-05	2.5117E-05	2.2902E-05	1.9865E-05	1.3005E-05	3.2305E-06	7.8600E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1216E-05	2.6068E-05	2.9858E-05	2.3953E-05	1.9717E-05	2.2317E-05	2.4795E-05	2.2602E-05	1.9933E-05	1.2830E-05	3.1853E-06	7.9109E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.4317E-05	2.7936E-05	2.2065E-05	1.8225E-05	2.0896E-05	2.3325E-05	2.1241E-05	1.8778E-05	1.1997E-05	3.0269E-06	7.4123E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.3883E-05	2.7208E-05	2.1857E-05	1.8138E-05	2.0797E-05	2.2700E-05	2.0555E-05	1.8113E-05	1.1665E-05	2.8879E-06	7.2137E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5670E-06	2.2223E-05	2.5508E-05	2.0394E-05	1.7050E-05	1.9431E-05	2.1589E-05	1.9752E-05	1.7146E-05	1.1082E-05	2.7981E-06	6.8520E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4681E-06	2.2636E-05	2.5450E-05	2.0480E-05	1.6915E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.6884E-05	1.1218E-05	2.7704E-06	6.7423E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5267E-06	2.2911E-05	2.5781E-05	2.0744E-05	1.7025E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.7355E-05	1.1082E-05	2.7193E-06	6.6589E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0504E-05	2.4529E-05	2.8250E-05	2.2388E-05	1.8492E-05	2.1202E-05	2.3556E-05	2.1312E-05	1.8508E-05	1.2220E-05	3.0229E-06	7.3632E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0958E-05	2.5936E-05	2.9290E-05	2.3522E-05	1.9514E-05	2.2374E-05	2.4562E-05	2.2643E-05	1.9600E-05	1.2632E-05	3.1296E-06	7.5942E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1929E-05	2.7920E-05	3.1582E-05	2.5412E-05	2.0748E-05	2.3789E-05	2.6340E-05	2.3849E-05	2.0887E-05	1.3450E-05	3.3515E-06	8.1800E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2c_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2277E-05	2.8674E-05	3.2665E-05	2.5929E-05	2.1471E-05	2.4681E-05	2.7229E-05	2.4774E-05	2.1687E-05	1.3993E-05	3.4801E-06	8.5948E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1975E-05	2.7983E-05	3.1512E-05	2.5261E-05	2.0975E-05	2.4049E-05	2.6328E-05	2.4019E-05	2.1125E-05	1.3665E-05	3.3979E-06	8.2985E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1225E-05	2.6243E-05	3.0038E-05	2.3791E-05	1.9717E-05	2.2607E-05	2.5117E-05	2.2902E-05	1.9865E-05	1.3005E-05	3.2305E-06	7.8600E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1216E-05	2.6068E-05	2.9858E-05	2.3953E-05	1.9717E-05	2.2317E-05	2.4795E-05	2.2602E-05	1.9933E-05	1.2830E-05	3.1853E-06	7.9109E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.4317E-05	2.7936E-05	2.2065E-05	1.8225E-05	2.0896E-05	2.3325E-05	2.1241E-05	1.8778E-05	1.1997E-05	3.0269E-06	7.4123E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.3883E-05	2.7208E-05	2.1857E-05	1.8138E-05	2.0797E-05	2.2700E-05	2.0555E-05	1.8113E-05	1.1665E-05	2.8879E-06	7.2137E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5670E-06	2.2223E-05	2.5508E-05	2.0394E-05	1.7050E-05	1.9431E-05	2.1589E-05	1.9752E-05	1.7146E-05	1.1082E-05	2.7981E-06	6.8520E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4681E-06	2.2636E-05	2.5450E-05	2.0480E-05	1.6915E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.6884E-05	1.1218E-05	2.7704E-06	6.7423E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5267E-06	2.2911E-05	2.5781E-05	2.0744E-05	1.7025E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.7355E-05	1.1082E-05	2.7193E-06	6.6589E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0504E-05	2.4529E-05	2.8250E-05	2.2388E-05	1.8492E-05	2.1202E-05	2.3556E-05	2.1312E-05	1.8508E-05	1.2220E-05	3.0229E-06	7.3632E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0958E-05	2.5936E-05	2.9290E-05	2.3522E-05	1.9514E-05	2.2374E-05	2.4562E-05	2.2643E-05	1.9600E-05	1.2632E-05	3.1296E-06	7.5942E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1929E-05	2.7920E-05	3.1582E-05	2.5412E-05	2.0748E-05	2.3789E-05	2.6340E-05	2.3849E-05	2.0887E-05	1.3450E-05	3.3515E-06	8.1800E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2d_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2277E-05	2.8674E-05	3.2665E-05	2.5929E-05	2.1471E-05	2.4681E-05	2.7229E-05	2.4774E-05	2.1687E-05	1.3993E-05	3.4801E-06	8.5948E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1975E-05	2.7983E-05	3.1512E-05	2.5261E-05	2.0975E-05	2.4049E-05	2.6328E-05	2.4019E-05	2.1125E-05	1.3665E-05	3.3979E-06	8.2985E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1225E-05	2.6243E-05	3.0038E-05	2.3791E-05	1.9717E-05	2.2607E-05	2.5117E-05	2.2902E-05	1.9865E-05	1.3005E-05	3.2305E-06	7.8600E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1216E-05	2.6068E-05	2.9858E-05	2.3953E-05	1.9717E-05	2.2317E-05	2.4795E-05	2.2602E-05	1.9933E-05	1.2830E-05	3.1853E-06	7.9109E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.4317E-05	2.7936E-05	2.2065E-05	1.8225E-05	2.0896E-05	2.3325E-05	2.1241E-05	1.8778E-05	1.1997E-05	3.0269E-06	7.4123E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.3883E-05	2.7208E-05	2.1857E-05	1.8138E-05	2.0797E-05	2.2700E-05	2.0555E-05	1.8113E-05	1.1665E-05	2.8879E-06	7.2137E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5670E-06	2.2223E-05	2.5508E-05	2.0394E-05	1.7050E-05	1.9431E-05	2.1589E-05	1.9752E-05	1.7146E-05	1.1082E-05	2.7981E-06	6.8520E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4681E-06	2.2636E-05	2.5450E-05	2.0480E-05	1.6915E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.6884E-05	1.1218E-05	2.7704E-06	6.7423E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5267E-06	2.2911E-05	2.5781E-05	2.0744E-05	1.7025E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.7355E-05	1.1082E-05	2.7193E-06	6.6589E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0504E-05	2.4529E-05	2.8250E-05	2.2388E-05	1.8492E-05	2.1202E-05	2.3556E-05	2.1312E-05	1.8508E-05	1.2220E-05	3.0229E-06	7.3632E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0958E-05	2.5936E-05	2.9290E-05	2.3522E-05	1.9514E-05	2.2374E-05	2.4562E-05	2.2643E-05	1.9600E-05	1.2632E-05	3.1296E-06	7.5942E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1929E-05	2.7920E-05	3.1582E-05	2.5412E-05	2.0748E-05	2.3789E-05	2.6340E-05	2.3849E-05	2.0887E-05	1.3450E-05	3.3515E-06	8.1800E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2e_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2277E-05	2.8674E-05	3.2665E-05	2.5929E-05	2.1471E-05	2.4681E-05	2.7229E-05	2.4774E-05	2.1687E-05	1.3993E-05	3.4801E-06	8.5948E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1864E-05	2.7912E-05	3.1335E-05	2.5115E-05	2.0744E-05	2.3784E-05	2.6228E-05	2.3996E-05	2.0900E-05	1.3555E-05	3.3796E-06	8.2539E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1091E-05	2.6190E-05	2.9782E-05	2.3882E-05	1.9396E-05	2.2239E-05	2.4948E-05	2.2825E-05	1.9871E-05	1.2839E-05	3.1993E-06	7.8346E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1191E-05	2.5907E-05	2.9467E-05	2.3559E-05	1.9459E-05	2.2383E-05	2.4606E-05	2.2512E-05	1.9524E-05	1.2653E-05	3.1520E-06	7.6917E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0236E-05	2.4127E-05	2.7469E-05	2.2054E-05	1.8291E-05	2.0885E-05	2.2986E-05	2.0935E-05	1.8202E-05	1.1783E-05	2.9892E-06	7.1810E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9920E-06	2.3561E-05	2.6835E-05	2.1553E-05	1.7801E-05	2.0410E-05	2.2340E-05	2.0339E-05	1.7675E-05	1.1438E-05	2.8452E-06	7.1154E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5167E-06	2.1937E-05	2.5018E-05	2.0002E-05	1.6521E-05	1.8942E-05	2.0670E-05	1.8911E-05	1.6516E-05	1.0741E-05	2.7500E-06	6.7341E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4565E-06	2.1673E-05	2.4884E-05	1.9895E-05	1.6432E-05	1.8840E-05	2.1064E-05	1.9271E-05	1.6726E-05	1.0877E-05	2.7022E-06	6.6171E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4565E-06	2.2456E-05	2.5039E-05	2.0144E-05	1.6535E-05	1.8958E-05	2.1064E-05	1.9271E-05	1.6726E-05	1.0741E-05	2.6681E-06	6.5754E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0244E-05	2.4290E-05	2.7815E-05	2.2238E-05	1.8073E-05	2.0722E-05	2.3147E-05	2.1064E-05	1.8396E-05	1.1899E-05	2.9747E-06	7.2845E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0884E-05	2.5288E-05	2.8915E-05	2.3216E-05	1.9175E-05	2.1986E-05	2.4202E-05	2.2042E-05	1.9163E-05	1.2405E-05	3.0870E-06	7.5245E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1761E-05	2.7763E-05	3.1275E-05	2.5080E-05	2.0454E-05	2.3451E-05	2.6056E-05	2.3682E-05	2.0615E-05	1.3317E-05	3.3293E-06	8.1257E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2167E-05	2.8559E-05	3.2452E-05	2.5741E-05	2.1261E-05	2.4436E-05	2.7071E-05	2.4703E-05	2.1462E-05	1.3884E-05	3.4618E-06	8.4551E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1975E-05	2.7983E-05	3.1512E-05	2.5261E-05	2.0975E-05	2.4049E-05	2.6328E-05	2.4019E-05	2.1125E-05	1.3665E-05	3.3979E-06	8.2985E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1225E-05	2.6243E-05	3.0038E-05	2.3791E-05	1.9717E-05	2.2607E-05	2.5117E-05	2.2902E-05	1.9865E-05	1.3005E-05	3.2305E-06	7.8600E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1216E-05	2.6068E-05	2.9858E-05	2.3953E-05	1.9717E-05	2.2317E-05	2.4795E-05	2.2602E-05	1.9933E-05	1.2830E-05	3.1853E-06	7.9109E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.4317E-05	2.7936E-05	2.2065E-05	1.8225E-05	2.0896E-05	2.3325E-05	2.1241E-05	1.8778E-05	1.1997E-05	3.0269E-06	7.4123E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0268E-05	2.3883E-05	2.7208E-05	2.1857E-05	1.8138E-05	2.0797E-05	2.2700E-05	2.0555E-05	1.8113E-05	1.1665E-05	2.8879E-06	7.2137E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5670E-06	2.2223E-05	2.5508E-05	2.0394E-05	1.7050E-05	1.9431E-05	2.1589E-05	1.9752E-05	1.7146E-05	1.1082E-05	2.7981E-06	6.8520E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4681E-06	2.2636E-05	2.5450E-05	2.0480E-05	1.6915E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.6884E-05	1.1218E-05	2.7704E-06	6.7423E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5267E-06	2.2911E-05	2.5781E-05	2.0744E-05	1.7025E-05	1.9394E-05	2.1548E-05	1.9587E-05	1.7355E-05	1.1082E-05	2.7193E-06	6.6589E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0504E-05	2.4529E-05	2.8250E-05	2.2388E-05	1.8492E-05	2.1202E-05	2.3556E-05	2.1312E-05	1.8508E-05	1.2220E-05	3.0229E-06	7.3632E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0958E-05	2.5936E-05	2.9290E-05	2.3522E-05	1.9514E-05	2.2374E-05	2.4562E-05	2.2643E-05	1.9600E-05	1.2632E-05	3.1296E-06	7.5942E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1929E-05	2.7920E-05	3.1582E-05	2.5412E-05	2.0748E-05	2.3789E-05	2.6340E-05	2.3849E-05	2.0887E-05	1.3450E-05	3.3515E-06	8.1800E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R2f_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2277E-05	2.8674E-05	3.2665E-05	2.5929E-05	2.1471E-05	2.4681E-05	2.7229E-05	2.4774E-05	2.1687E-05	1.3993E-05	3.4801E-06	8.5948E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1864E-05	2.7912E-05	3.1335E-05	2.5115E-05	2.0744E-05	2.3784E-05	2.6228E-05	2.3996E-05	2.0900E-05	1.3555E-05	3.3796E-06	8.2539E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1091E-05	2.6190E-05	2.9782E-05	2.3882E-05	1.9396E-05	2.2239E-05	2.4948E-05	2.2825E-05	1.9871E-05	1.2839E-05	3.1993E-06	7.8346E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1191E-05	2.5907E-05	2.9467E-05	2.3559E-05	1.9459E-05	2.2383E-05	2.4606E-05	2.2512E-05	1.9524E-05	1.2653E-05	3.1520E-06	7.6917E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0236E-05	2.4127E-05	2.7469E-05	2.2054E-05	1.8291E-05	2.0885E-05	2.2986E-05	2.0935E-05	1.8202E-05	1.1783E-05	2.9892E-06	7.1810E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9920E-06	2.3561E-05	2.6835E-05	2.1553E-05	1.7801E-05	2.0410E-05	2.2340E-05	2.0339E-05	1.7675E-05	1.1438E-05	2.8452E-06	7.1154E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5167E-06	2.1937E-05	2.5018E-05	2.0002E-05	1.6521E-05	1.8942E-05	2.0670E-05	1.8911E-05	1.6516E-05	1.0741E-05	2.7500E-06	6.7341E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4565E-06	2.1673E-05	2.4884E-05	1.9895E-05	1.6432E-05	1.8840E-05	2.1064E-05	1.9271E-05	1.6726E-05	1.0877E-05	2.7022E-06	6.6171E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4565E-06	2.2456E-05	2.5039E-05	2.0144E-05	1.6535E-05	1.8958E-05	2.1064E-05	1.9271E-05	1.6726E-05	1.0741E-05	2.6681E-06	6.5754E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0244E-05	2.4290E-05	2.7815E-05	2.2238E-05	1.8073E-05	2.0722E-05	2.3147E-05	2.1064E-05	1.8396E-05	1.1899E-05	2.9747E-06	7.2845E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0884E-05	2.5288E-05	2.8915E-05	2.3216E-05	1.9175E-05	2.1986E-05	2.4202E-05	2.2042E-05	1.9163E-05	1.2405E-05	3.0870E-06	7.5245E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1761E-05	2.7763E-05	3.1275E-05	2.5080E-05	2.0454E-05	2.3451E-05	2.6056E-05	2.3682E-05	2.0615E-05	1.3317E-05	3.3293E-06	8.1257E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R3_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2167E-05	2.8559E-05	3.2452E-05	2.5741E-05	2.1261E-05	2.4436E-05	2.7071E-05	2.4703E-05	2.1462E-05	1.3884E-05	3.4618E-06	8.4551E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1864E-05	2.7912E-05	3.1335E-05	2.5115E-05	2.0744E-05	2.3784E-05	2.6228E-05	2.3996E-05	2.0900E-05	1.3555E-05	3.3796E-06	8.2539E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1091E-05	2.6190E-05	2.9782E-05	2.3882E-05	1.9396E-05	2.2239E-05	2.4948E-05	2.2825E-05	1.9871E-05	1.2839E-05	3.1993E-06	7.8346E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1191E-05	2.5907E-05	2.9467E-05	2.3559E-05	1.9459E-05	2.2383E-05	2.4606E-05	2.2512E-05	1.9524E-05	1.2653E-05	3.1520E-06	7.6917E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0236E-05	2.4127E-05	2.7469E-05	2.2054E-05	1.8291E-05	2.0885E-05	2.2986E-05	2.0935E-05	1.8202E-05	1.1783E-05	2.9892E-06	7.1810E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	R4_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.9920E-06	2.3561E-05	2.6835E-05	2.1553E-05	1.7801E-05	2.0410E-05	2.2340E-05	2.0339E-05	1.7675E-05	1.1438E-05	2.8452E-06	7.1154E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5167E-06	2.1937E-05	2.5018E-05	2.0002E-05	1.6521E-05	1.8942E-05	2.0670E-05	1.8911E-05	1.6516E-05	1.0741E-05	2.7500E-06	6.7341E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4565E-06	2.1673E-05	2.4884E-05	1.9895E-05	1.6432E-05	1.8840E-05	2.1064E-05	1.9271E-05	1.6726E-05	1.0877E-05	2.7022E-06	6.6171E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4565E-06	2.2456E-05	2.5039E-05	2.0144E-05	1.6535E-05	1.8958E-05	2.1064E-05	1.9271E-05	1.6726E-05	1.0741E-05	2.6681E-06	6.5754E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0244E-05	2.4290E-05	2.7815E-05	2.2238E-05	1.8073E-05	2.0722E-05	2.3147E-05	2.1064E-05	1.8396E-05	1.1899E-05	2.9747E-06	7.2845E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0884E-05	2.5288E-05	2.8915E-05	2.3216E-05	1.9175E-05	2.1986E-05	2.4202E-05	2.2042E-05	1.9163E-05	1.2405E-05	3.0870E-06	7.5245E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1761E-05	2.7763E-05	3.1275E-05	2.5080E-05	2.0454E-05	2.3451E-05	2.6056E-05	2.3682E-05	2.0615E-05	1.3317E-05	3.3293E-06	8.1257E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	R4_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2167E-05	2.8559E-05	3.2452E-05	2.5741E-05	2.1261E-05	2.4436E-05	2.7071E-05	2.4703E-05	2.1462E-05	1.3884E-05	3.4618E-06	8.4551E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO	TKO15	1	1.7647E-06	6.2636E-07	2.2245E-08	1.2818E-08	1.5733E-08	6.2467E-07	2.3436E-06	3.2447E-06	3.7520E-06	4.0098E-06	4.2114E-06	5.0187E-06	4.1909E-06	3.8364E-06	4.8073E-06	3.5784E-06	4.7758E-06	5.2457E-06	4.7715E-06	3.5150E-06	2.6548E-06	2.7122E-06	1.7450E-06	1.0938E-06
NO	TKO15	2	1.7363E-06	6.1463E-07	2.0355E-08	1.1741E-08	1.4327E-08	6.1506E-07	2.2967E-06	3.1669E-06	3.6534E-06	3.9117E-06	4.1099E-06	4.8905E-06	4.0968E-06	3.7535E-06	4.7229E-06	3.5230E-06	4.6676E-06	5.1466E-06	4.6855E-06	3.4580E-06	2.6248E-06	2.6686E-06	1.7155E-06	1.0734E-06
NO	TKO15	3	1.7392E-06	6.1510E-07	2.0355E-08	1.1481E-08	1.4053E-08	6.1325E-07	2.2932E-06	3.1826E-06	3.6518E-06	3.9063E-06	4.0996E-06	4.9044E-06	4.1018E-06	3.7363E-06	4.6992E-06	3.5073E-06	4.6676E-06	5.1266E-06	4.6620E-06	3.4645E-06	2.6185E-06	2.6598E-06	1.7114E-06	1.0706E-06
NO	TKO15	4	1.7074E-06	6.0493E-07	1.8965E-08	1.0423E-08	1.2721E-08	6.0185E-07	2.2513E-06	3.0936E-06	3.5361E-06	3.8069E-06	3.9788E-06	4.7512E-06	3.9987E-06	3.6576E-06	4.5916E-06	3.4366E-06	4.5637E-06	5.0036E-06	4.5878E-06	3.4000E-06	2.5661E-06	2.6092E-06	1.6785E-06	1.0553E-06
NO	TKO15	5	1.6973E-06	6.0100E-07	1.8484E-08	1.0128E-08	1.2349E-08	5.9900E-07	2.2405E-06	3.0756E-06	3.5302E-06	3.7761E-06	3.9649E-06	4.7333E-06	3.9795E-06	3.6398E-06	4.5374E-06	3.4011E-06	4.5120E-06	4.9463E-06	4.5111E-06	3.3748E-06	2.5465E-06	2.5893E-06	1.6662E-06	1.0488E-06
NO	TKO15	6	1.6683E-06	5.9131E-07	1.7318E-08	9.3116E-09	1.1313E-08	5.8839E-07	2.2028E-06	3.0333E-06	3.4419E-06	3.6911E-06	3.8691E-06	4.6219E-06	3.9071E-06	3.5724E-06	4.4226E-06	3.3600E-06	4.4279E-06	4.8604E-06	4.4661E-06	3.3293E-06	2.5063E-06	2.5483E-06	1.6523E-06	1.0328E-06
NO	TKO15	7	1.6681E-06	5.9196E-07	1.7561E-08	9.5036E-09	1.1473E-08	5.9213E-07	2.1995E-06	3.0341E-06	3.4376E-06	3.7148E-06	3.8759E-06	4.6201E-06	3.9060E-06	3.5639E-06	4.4640E-06	3.3520E-06	4.4057E-06	4.8807E-06	4.4525E-06	3.3157E-06	2.5176E-06	2.5596E-06	1.6501E-06	1.0298E-06
NO	TKO15	8	1.6749E-06	5.9349E-07	1.7585E-08	9.5037E-09	1.1559E-08	5.9063E-07	2.2086E-06	3.0238E-06	3.4701E-06	3.7228E-06	3.8848E-06	4.6428E-06	3.9060E-06	3.5639E-06	4.4640E-06	3.3453E-06	4.4373E-06	4.8604E-06	4.4352E-06	3.3050E-06	2.5138E-06	2.5558E-06	1.6454E-06	1.0283E-06
NO	TKO15	9	1.7067E-06	6.0402E-07	1.8789E-08	1.0356E-08	1.2654E-08	6.0464E-07	2.2477E-06	3.1121E-06	3.5611E-06	3.8221E-06	4.0149E-06	4.7717E-06	4.0141E-06	3.6648E-06	4.6021E-06	3.4419E-06	4.5502E-06	5.0292E-06	4.5797E-06	3.3944E-06	2.5781E-06	2.6169E-06	1.6829E-06	1.0515E-06
NO	TKO15	10	1.7258E-06	6.1310E-07	1.9864E-08	1.1068E-08	1.3559E-08	6.1235E-07	2.2899E-06	3.1583E-06	3.6182E-06	3.8937E-06	4.0693E-06	4.8761E-06	4.0815E-06	3.7347E-06	4.7054E-06	3.5103E-06	4.6376E-06	5.0901E-06	4.6332E-06	3.4234E-06	2.6031E-06	2.6460E-06	1.7028E-06	1.0660E-06
NO	TKO15	11	1.7619E-06	6.2399E-07	2.1431E-08	1.2435E-08	1.5269E-08	6.2447E-07	2.3353E-06	3.2493E-06	3.7427E-06	4.0073E-06	4.1914E-06	5.0292E-06	4.1910E-06	3.8199E-06	4.8069E-06	3.5684E-06	4.7531E-06	5.2121E-06	4.7458E-06	3.4982E-06	2.6576E-06	2.7014E-06	1.7368E-06	1.0864E-06
NO	TKO15	12	1.7785E-06	6.3068E-07	2.3091E-08	1.3500E-08	1.6636E-08	6.3024E-07	2.3647E-06	3.2858E-06	3.7908E-06	4.0711E-06	4.2535E-06	5.0992E-06	4.2278E-06	3.8746E-06	4.8739E-06	3.6180E-06	4.8312E-06	5.2946E-06	4.8130E-06	3.5537E-06	2.6841E-06	2.7379E-06	1.7586E-06	1.1028E-06
NO	TKO16	1	1.9439E-06	6.6284E-07	7.7738E-08	8.0751E-07	2.6951E-07	7.5830E-07	1.1064E-06	2.3738E-06	2.8083E-06	4.5076E-06	2.8272E-06	2.9292E-06	2.5819E-06	2.6056E-06	4.2490E-06	3.2215E-06	4.1372E-06	3.0014E-06	4.2408E-06	3.1701E-06	3.6155E-06	1.7804E-06	2.1051E-06	1.0030E-06
NO	TKO16	2	1.8786E-06	6.4837E-07	6.9781E-08	7.9233E-07	2.5512E-07	7.3830E-07	1.0583E-06	2.2645E-06	2.6815E-06	4.3439E-06	2.6978E-06	2.8161E-06	2.4923E-06	2.5206E-06	4.1395E-06	3.1444E-06	3.9976E-06	2.9164E-06	4.1344E-06	3.0826E-06	3.5521E-06	1.7402E-06	2.0597E-06	9.7698E-07
NO	TKO16	3	1.8846E-06	6.4893E-07	6.9781E-08	7.8858E-07	2.5230E-07	7.3444E-07	1.0541E-06	2.2845E-06	2.6776E-06	4.3347E-06	2.6835E-06	2.8277E-06	2.4968E-06	2.5032E-06	4.1089E-06	3.1223E-06	3.9976E-06	2.8979E-06	4.1046E-06	3.0921E-06	3.5378E-06	1.7318E-06	2.0533E-06	9.7288E-07
NO	TKO16	4	1.8133E-06	6.3669E-07	6.4118E-08	7.7080E-07	2.3759E-07	7.1241E-07	1.0154E-06	2.1669E-06	2.5426E-06	4.1761E-06	2.5465E-06	2.7008E-06	2.4041E-06	2.4273E-06	3.9734E-06	3.0271E-06	3.8684E-06	2.7977E-06	4.0145E-06	2.9941E-06	3.4271E-06	1.6865E-06	2.0031E-06	9.5368E-07
NO	TKO16	5	1.7918E-06	6.3205E-07	6.2068E-08	7.6517E-07	2.3321E-07	7.0722E-07	1.0060E-06	2.1436E-06	2.5359E-06	4.1281E-06	2.5305E-06	2.6856E-06	2.3864E-06	2.4096E-06	3.9061E-06	2.9800E-06	3.8052E-06	2.7527E-06	3.9243E-06	2.9564E-06	3.3863E-06	1.6691E-06	1.9845E-06	9.4559E-07
NO	TKO16	6	1.7326E-06	6.2074E-07	5.7139E-08	7.4785E-07	2.2027E-07	6.8831E-07	9.7452E-07	2.0913E-06	2.4399E-06	4.0003E-06	2.4310E-06	2.6021E-06	2.3271E-06	2.3492E-06	3.7680E-06	2.9274E-06	3.7088E-06	2.6919E-06	3.8745E-06	2.8917E-06	3.3057E-06	1.6348E-06	1.9640E-06	9.2662E-07
NO	TKO16	7	1.7341E-06	6.2162E-07	5.8236E-08	7.5025E-07	2.2161E-07	6.9530E-07	9.7255E-07	2.0941E-06	2.4383E-06	4.0388E-06	2.4439E-06	2.6054E-06	2.3294E-06	2.3437E-06	3.8216E-06	2.9188E-06	3.6851E-06	2.7080E-06	3.8607E-06	2.8732E-06	3.3293E-06	1.6448E-06	1.9608E-06	9.2332E-07
NO	TKO16	8	1.7470E-06	6.2333E-07	5.8304E-08	7.5152E-07	2.2318E-07	6.9250E-07	9.7955E-07	2.0806E-06	2.4727E-06	4.0515E-06	2.4542E-06	2.6251E-06	2.3294E-06	2.3437E-06	3.8216E-06	2.9096E-06	3.7205E-06	2.6919E-06	3.8401E-06	2.8572E-06	3.3213E-06	1.6415E-06	1.9539E-06	9.2145E-07
NO	TKO16	9	1.8140E-06	6.3573E-07	6.3540E-08	7.6918E-07	2.3665E-07	7.1780E-07	1.0128E-06	2.1923E-06	2.5756E-06	4.2079E-06	2.5951E-06	2.7292E-06	2.4254E-06	2.4406E-06	3.9956E-06	3.0393E-06	3.8608E-06	2.8239E-06	4.0094E-06	2.9889E-06	3.4541E-06	1.6946E-06	2.0101E-06	9.4880E-07
NO	TKO16	10	1.8544E-06	6.4642E-07	6.8116E-08	7.8347E-07	2.4763E-07	7.3195E-07	1.0488E-06	2.2510E-06	2.6382E-06	4.3161E-06	2.6513E-06	2.8067E-06	2.4802E-06	2.5032E-06	4.1199E-06	3.1276E-06	3.9612E-06	2.8681E-06	4.0695E-06	3.0292E-06	3.5044E-06	1.7191E-06	2.0399E-06	9.6598E-07
NO	TKO16	11	1.9326E-06	6.5942E-07	7.4459E-08	8.0697E-07	2.6675E-07	7.5527E-07	1.0910E-06	2.3713E-06	2.7826E-06	4.4958E-06	2.7877E-06	2.9315E-06	2.5774E-06	2.5845E-06	4.2461E-06	3.2053E-06	4.1025E-06	2.9654E-06	4.2033E-06	3.1403E-06	3.6185E-06	1.7680E-06	2.0914E-06	9.9151E-07
NO	TKO16	12	1.9799E-06	6.6833E-07	8.1380E-08	8.1614E-07	2.7835E-07	7.7043E-07	1.1285E-06	2.4331E-06	2.8541E-06	4.6132E-06	2.8763E-06	3.0058E-06	2.6161E-06	2.6436E-06	4.3339E-06	3.2750E-06	4.2061E-06	3.0402E-06	4.2898E-06	3.2313E-06	3.6794E-06	1.8056E-06	2.1265E-06	1.0151E-06
NO	TKO17	1	1.5252E-07	1.9579E-09	0.0000E+00	0.0000E+00	1.5691E-08	1.2421E-08	1.6929E-06	2.2443E-06	2.0119E-06	2.7376E-06	3.1322E-06	2.4951E-06	3.0208E-06	2.4113E-06	3.5752E-06	2.6464E-06	2.8200E-06	3.3189E-06	2.7340E-06	2.5851E-06	1.5555E-06	1.2505E-06	9.9161E-07	5.8739E-07
NO	TKO17	2	1.4938E-07	1.8052E-09	0.0000E+00	0.0000E+00	1.4230E-08	1.1287E-08	1.6605E-06	2.1946E-06	1.9683E-06	2.6664E-06	3.0579E-06	2.4375E-06	2.9536E-06	2.3624E-06	3.5119E-06	2.6016E-06	2.7535E-06	3.2563E-06	2.6908E-06	2.5435E-06	1.5396E-06	1.2330E-06	9.7560E-07	5.7609E-07
NO	TKO17	3	1.4967E-07	1.8090E-09	0.0000E+00	0.0000E+00	1.3956E-08	1.1070E-08	1.6581E-06	2.2048E-06	1.9674E-06	2.6624E-06	3.0505E-06	2.4438E-06	2.9571E-06	2.3522E-06	3.4941E-06	2.5889E-06	2.7535E-06	3.2435E-06	2.6790E-06	2.5482E-06	1.5363E-06	1.2295E-06	9.7332E-07	5.7453E-07
NO	TKO17	4	1.4622E-07	1.7007E-09	0.0000E+00	0.0000E+00	1.2574E-08	9.9423E-09	1.6293E-06	2.1476E-06	1.9166E-06	2.5903E-06	2.9623E-06	2.3753E-06	2.8835E-06	2.3062E-06	3.4135E-06	2.5319E-06	2.6906E-06	3.1667E-06	2.6417E-06	2.5010E-06	1.5086E-06	1.2090E-06	9.5546E-07	5.6611E-07
NO	TKO17	5	1.4516E-07	1.6645E-09	0.0000E+00	0.0000E+00	1.2189E-08	9.6968E-09	1.6219E-06	2.1359E-06	1.9141E-06	2.5680E-06	2.9521E-06	2.3673E-06	2.8699E-06	2.2957E-06	3.3729E-06	2.5035E-06	2.6595E-06	3.1312E-06	2.6031E-06	2.4825E-06	1.4981E-06	1.2009E-06	9.4878E-07	5.6250E-07
NO	TKO17	6	1.4223E-07	1.5975E-09	0.0000E+00	0.0000E+00	1.1101E-08	8.8559E-09	1.5960E-06	2.1084E-06	1.8756E-06	2.5062E-06	2.8824E-06	2.3186E-06	2.8184E-06	2.2566E-06	3.2872E-06	2.4709E-06	2.6100E-06	3.0793E-06	2.5806E-06	2.4493E-06	1.4766E-06	1.1842E-06	9.4126E-07	5.5383E-07
NO	TKO17	7	1.4228E-07	1.6078E-09	0.0000E+00	0.0000E+00	1.1266E-08	9.1905E-09	1.5937E-06	2.1089E-06	1.8738E-06	2.5234E-06	2.8875E-06	2.3185E-06	2.8178E-06	2.2519E-06	3.3183E-06	2.4650E-06	2.5971E-06	3.0919E-06	2.5739E-06	2.4394E-06	1.4827E-06	1.1889E-06	9.3999E-07	5.5226E-07
NO	TKO17	8	1.4292E-07	1.6050E-09	0.0000E+00	0.0000E+00	1.1362E-08	9.0564E-09	1.6000E-06	2.1022E-06	1.8880E-06	2.5291E-06	2.8940E-06	2.3287E-06	2.8178E-06	2.2519E-06	3.3183E-06	2.4595E-06	2.6157E-06	3.0793E-06	2.5652E-06	2.4317E-06	1.4807E-06	1.1873E-06	9.3749E-07	5.5142E-07
NO	TKO17	9	1.4617E-07	1.6717E-09	0.0000E+00	0.0000E+00	1.2531E-08	1.0205E-08	1.6269E-06	2.1596E-06	1.9276E-06	2.6011E-06	2.9888E-06	2.3860E-06	2.8948E-06	2.3110E-06	3.4218E-06	2.5374E-06	2.6839E-06	3.1836E-06	2.6377E-06	2.4968E-06	1.5149E-06	1.2121E-06	9.5774E-07	5.6406E-07
NO	TKO17	10	1.4814E-07	1.7359E-09	0.0000E+00	0.0000E+00	1.3483E-08	1.0872E-08	1.6559E-06	2.1896E-06	1.9526E-06	2.6531E-06	3.0284E-06	2.4315E-06	2.9428E-06	2.3515E-06	3.4990E-06	2.5917E-06	2.7354E-06	3.2206E-06	2.6645E-06	2.5179E-06	1.5283E-06	1.2240E-06	9.6858E-07	5.7193E-07
NO	TKO17	11	1.5199E-07	1.8579E-09	0.0000E+00	0.0000E+00	1.5238E-08	1.2059E-08	1.6870E-06	2.2479E-06	2.0073E-06	2.7358E-06	3.1175E-06	2.4996E-06	3.0208E-06	2.4013E-06	3.5750E-06	2.6383E-06	2.8049E-06	3.2964E-06	2.7211E-06	2.5726E-06	1.5571E-06	1.2464E-06	9.8708E-07	5.8311E-07
NO	TKO17	12	1.5418E-07	2.0191E-09	0.0000E+00	0.0000E+00	1.6636E-08	1.3152E-08	1.7076E-06	2.2706E-06	2.0289E-06	2.7819E-06	3.1629E-06	2.5322E-06	3.0471E-06	2.4337E-06	3.6252E-06	2.6783E-06	2.8534E-06	3.3491E-06	2.7548E-06	2.6134E-06	1.5710E-06	1.2608E-06	9.9895E-07	5.9254E-07
NO	TKO19	1	2.3491E-07	7.1139E-07	9.1782E-08	1.7905E-07	1.1374E-07	2.4449E-06	2.7023E-06	1.1305E-05	2.0411E-05	3.0513E-05	3.2950E-05	2.8837E-05	2.6009E-05	2.7667E-05	2.9480E-05	2.8343E-05	2.5299E-05	2.1120E-05	1.3185E-05	2.4171E-06	2.1320E-06	1.0454E-06	8.3667E-07	4.7384E-08
NO	TKO19	2	2.2130E-07	6.9184E-07	8.7706E-08	1.7292E-07	1.0854E-07	2.4044E-06	2.6316E-06	1.0954E-05	1.9818E-05	2.9688E-05	3.2082E-05	2.8082E-05	2.5306E-05	2.6960E-05	2.8916E-05	2.7795E-05	2.4652E-05	2.0650E-05	1.2883E-05	2.3564E-06	2.1046E-06	1.0262E-06	8.1715E-07	4.4903E-08
NO	TKO19	3	2.2236E-07	6.9252E-07	8.7706E-08	1.7139E-07	1.0750E-07	2.3967E-06	2.6260E-06	1.1026E-05	1.9809E-05	2.9644E-05	3.1997E-05	2.8164E-05	2.5344E-05	2.6812E-05	2.8757E-05	2.7640E-05	2.4652E-05	2.0555E-05	1.2801E-05	2.3632E-06	2.0985E-06	1.0220E-06	8.1402E-07	4.4411E-08
NO	TKO19	4	2.0772E-07	6.7655E-07	8.4535E-08	1.6460E-07	1.0220E-07	2.3490E-06	2.5664E-06	1.0621E-05	1.9106E-05	2.8795E-05	3.0942E-05	2.7253E-05	2.4571E-05	2.6138E-05	2.8032E-05	2.6934E-05	2.4026E-05	1.9972E-05	1.2539E-05	2.2946E-06	2.0503E-06	1.0002E-06	7.9276E-07	4.2677E-08
NO	TKO19	5	2.0339E-07	6.7049E-07	8.3284E-08	1.6253E-07	1.0063E-07	2.3371E-06	2.5512E-06	1.0538E-05	1.9070E-05	2.8530E-05	3.0820E-05	2.7147E-05	2.4428E-05	2.5986E-05	2.7667E-05	2.6579E-05	2.3714E-05	1.9700E-05	1.2268E-05	2.2678E-06	2.0323E-06	9.9193E-07	7.8515E-07	4.1890E-08
NO	TKO19	6	1.9258E-07	6.5598E-07	8.0070E-08	1.5631E-07	9.6021E-08	2.2931E-06	2.4995E-06	1.0343E-05	1.8528E-05	2.7791E-05	2.9972E-05	2.6479E-05	2.3884E-05	2.5407E-05	2.6887E-05	2.6166E-05	2.3202E-05	1.9292E-05	1.2109E-05	2.2197E-06	1.9961E-06	9.7533E-07	7.7679E-07	4.0235E-08
NO	TKO19	7	1.9326E-07	6.5735E-07	8.0586E-08	1.5728E-07	9.6491E-08	2.3086E-06	2.4956E-06	1.0346E-05	1.8500E-05	2.7992E-05	3.0025E-05	2.6466E-05	2.3876E-05	2.5333E-05	2.7165E-05	2.6085E-05	2.3066E-05	1.9388E-05	1.2060E-05	2.2056E-06	2.0063E-06	9.7988E-07	7.7561E-07	4.0028E-08
NO	TKO19	8	1.9523E-07	6.5939E-07	8.0763E-08	1.5762E-07	9.7029E-08	2.3024E-06	2.5076E-06	1.0299E-05	1.8700E-05	2.8060E-05	3.0102E-05	2.6601E-05	2.3876E-05	2.5333E-05	2.7165E-05	2.6018E-05	2.3259E-05	1.9292E-05	1.1999E-05	2.1943E-06	2.0029E-06	9.7834E-07	7.7275E-07	3.9879E-08
NO	TKO19	9	2.0736E-07	6.7534E-07	8.4070E-08	1.6398E-07	1.0181E-07	2.3605E-06	2.5617E-06	1.0705E-05	1.9255E-05	2.8912E-05	3.1249E-05	2.7368E-05	2.4684E-05	2.6198E-05	2.8095E-05	2.6984E-05	2.3939E-05	2.0093E-05	1.2510E-05	2.2887E-06	2.0609E-06	1.0031E-06	7.9572E-07	4.2103E-08
NO	TKO19	10	2.1476E-07	6.8914E-07	8.6949E-08	1.6918E-07	1.0573E-07	2.3926E-06	2.6201E-06	1.0917E-05	1.9606E-05	2.9534E-05	3.1731E-05	2.7994E-05	2.5190E-05	2.6798E-05	2.8797E-05	2.7669E-05	2.4471E-05	2.0381E-05	1.2700E-05	2.3190E-06	2.0836E-06	1.0150E-06	8.0777E-07	4.3493E-08
NO	TKO19	11	2.3095E-07	7.0603E-07	9.0640E-08	1.7816E-07	1.1267E-07	2.4434E-06	2.6847E-06	1.1331E-05	2.0363E-05	3.0507E-05	3.2799E-05	2.8905E-05	2.6011E-05	2.7528E-05	2.9481E-05	2.8250E-05	2.5168E-05	2.0960E-05	1.3097E-05	2.3986E-06	2.1337E-06	1.0389E-06	8.2961E-07	4.5906E-08
NO	TKO19	12	2.4316E-07	7.1912E-07	9.3523E-08	1.8262E-07	1.1694E-07	2.4684E-06	2.7346E-06	1.1489E-05	2.0647E-05	3.1022E-05	3.3316E-05	2.9309E-05	2.6285E-05	2.7993E-05	2.9928E-05	2.8738E-05	2.5633E-05	2.1352E-05	1.3332E-05	2.4585E-06	2.1594E-06	1.0569E-06	8.4612E-07	4.8639E-08
NO	TKO20	1	2.2004E-06	1.3801E-06	7.5931E-08	9.0177E-07	2.5117E-07	1.1889E-06	2.1719E-06	2.6317E-06	5.2695E-06	6.0084E-06	3.9695E-06	4.3437E-06	2.9997E-06	3.0714E-06	4.7776E-06	3.0173E-06	4.2554E-06	4.5427E-06	5.3307E-06	2.4707E-06	2.0400E-06	1.3219E-06	1.2976E-06	6.3642E-07
NO	TKO20	2	2.1449E-06	1.3538E-06	6.7464E-08	8.8397E-07	2.3788E-07	1.1624E-06	2.1079E-06	2.5333E-06	5.0756E-06	5.7920E-06	3.7955E-06	4.1754E-06	2.8895E-06	2.9697E-06	4.6474E-06	2.9427E-06	4.1097E-06	4.4088E-06	5.1884E-06	2.4114E-06	2.0098E-06	1.2938E-06	1.2729E-06	6.1933E-07
NO	TKO20	3	2.1501E-06	1.3549E-06	6.7464E-08	8.7957E-07	2.3531E-07	1.1573E-06	2.1028E-06	2.5515E-06	5.0709E-06	5.7800E-06	3.7770E-06	4.1931E-06	2.8952E-06	2.9484E-06	4.6108E-06	2.9214E-06	4.1097E-06	4.3810E-06	5.1489E-06	2.4178E-06	2.0025E-06	1.2879E-06	1.2692E-06	6.1653E-07
NO	TKO20	4	2.0892E-06	1.3322E-06	6.1536E-08	8.5864E-07	2.2175E-07	1.1276E-06	2.0491E-06	2.4447E-06	4.8524E-06	5.5660E-06	3.5830E-06	3.9981E-06	2.7790E-06	2.8552E-06	4.4468E-06	2.8285E-06	3.9735E-06	4.2193E-06	5.0275E-06	2.3517E-06	1.9495E-06	1.2564E-06	1.2422E-06	6.0405E-07
NO	TKO20	5	2.0707E-06	1.3234E-06	5.9401E-08	8.5201E-07	2.1771E-07	1.1205E-06	2.0356E-06	2.4237E-06	4.8416E-06	5.5006E-06	3.5605E-06	3.9751E-06	2.7570E-06	2.8338E-06	4.3646E-06	2.7822E-06	3.9065E-06	4.1449E-06	4.9033E-06	2.3267E-06	1.9302E-06	1.2442E-06	1.2322E-06	5.9879E-07
NO	TKO20	6	2.0196E-06	1.3015E-06	5.4206E-08	8.3152E-07	2.0582E-07	1.0943E-06	1.9895E-06	2.3758E-06	4.6796E-06	5.3232E-06	3.4131E-06	3.8397E-06	2.6803E-06	2.7568E-06	4.1939E-06	2.7301E-06	3.8028E-06	4.0382E-06	4.8333E-06	2.2833E-06	1.8931E-06	1.2205E-06	1.2213E-06	5.8654E-07
NO	TKO20	7	2.0208E-06	1.3030E-06	5.5413E-08	8.3432E-07	2.0705E-07	1.1038E-06	1.9862E-06	2.3782E-06	4.6737E-06	5.3747E-06	3.4279E-06	3.8408E-06	2.6820E-06	2.7484E-06	4.2578E-06	2.7212E-06	3.7767E-06	4.0648E-06	4.8131E-06	2.2711E-06	1.9040E-06	1.2275E-06	1.2198E-06	5.8457E-07
NO	TKO20	8	2.0319E-06	1.3065E-06	5.5451E-08	8.3584E-07	2.0849E-07	1.1000E-06	1.9968E-06	2.3660E-06	4.7330E-06	5.3919E-06	3.4422E-06	3.8703E-06	2.6820E-06	2.7484E-06	4.2578E-06	2.7123E-06	3.8152E-06	4.0382E-06	4.7850E-06	2.2605E-06	1.9005E-06	1.2252E-06	1.2160E-06	5.8333E-07
NO	TKO20	9	2.0893E-06	1.3302E-06	6.0945E-08	8.5670E-07	2.2087E-07	1.1348E-06	2.0450E-06	2.4673E-06	4.9026E-06	5.6044E-06	3.6461E-06	4.0321E-06	2.8023E-06	2.8672E-06	4.4683E-06	2.8388E-06	3.9628E-06	4.2562E-06	5.0180E-06	2.3484E-06	1.9623E-06	1.2621E-06	1.2460E-06	6.0090E-07
NO	TKO20	10	2.1238E-06	1.3508E-06	6.5793E-08	8.7359E-07	2.3093E-07	1.1543E-06	2.0971E-06	2.5207E-06	5.0075E-06	5.7539E-06	3.7297E-06	4.1587E-06	2.8734E-06	2.9474E-06	4.6220E-06	2.9261E-06	4.0710E-06	4.3327E-06	5.1022E-06	2.3752E-06	1.9857E-06	1.2791E-06	1.2618E-06	6.1197E-07
NO	TKO20	11	2.1911E-06	1.3750E-06	7.2381E-08	9.0127E-07	2.4858E-07	1.1858E-06	2.1553E-06	2.6301E-06	5.2421E-06	5.9975E-06	3.9242E-06	4.3522E-06	2.9959E-06	3.0478E-06	4.7761E-06	3.0019E-06	4.2203E-06	4.4918E-06	5.2846E-06	2.4498E-06	2.0400E-06	1.3132E-06	1.2896E-06	6.2860E-07
NO	TKO20	12	2.2303E-06	1.3898E-06	7.9873E-08	9.1184E-07	2.5932E-07	1.2048E-06	2.2011E-06	2.6848E-06	5.3432E-06	6.1463E-06	4.0381E-06	4.4531E-06	3.0419E-06	3.1170E-06	4.8799E-06	3.0694E-06	4.3278E-06	4.6060E-06	5.3975E-06	2.5119E-06	2.0710E-06	1.3397E-06	1.3095E-06	6.4457E-07
NO	TKO21	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9315E-06	1.6260E-05	2.7734E-05	3.0156E-05	2.6522E-05	2.3640E-05	2.5448E-05	2.7105E-05	2.5890E-05	2.4663E-05	1.9550E-05	1.3192E-05	2.1372E-06	5.3043E-07	2.2693E-07	8.0764E-08	0.0000E+00
NO	TKO21	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6879E-06	1.5788E-05	2.6981E-05	2.9364E-05	2.5826E-05	2.2998E-05	2.4795E-05	2.6586E-05	2.5388E-05	2.4039E-05	1.9120E-05	1.2893E-05	2.0864E-06	5.2154E-07	2.2151E-07	7.8580E-08	0.0000E+00
NO	TKO21	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.7389E-06	1.5781E-05	2.6942E-05	2.9286E-05	2.5902E-05	2.3033E-05	2.4658E-05	2.6439E-05	2.5246E-05	2.4039E-05	1.9033E-05	1.2812E-05	2.0922E-06	5.1976E-07	2.2042E-07	7.8283E-08	0.0000E+00
NO	TKO21	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4543E-06	1.5219E-05	2.6165E-05	2.8319E-05	2.5058E-05	2.2326E-05	2.4034E-05	2.5770E-05	2.4598E-05	2.3434E-05	1.8498E-05	1.2552E-05	2.0346E-06	5.0426E-07	2.1409E-07	7.5834E-08	0.0000E+00
NO	TKO21	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.3957E-06	1.5191E-05	2.5923E-05	2.8207E-05	2.4960E-05	2.2195E-05	2.3893E-05	2.5431E-05	2.4272E-05	2.3132E-05	1.8249E-05	1.2284E-05	2.0117E-06	4.9839E-07	2.1158E-07	7.4911E-08	0.0000E+00
NO	TKO21	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2566E-06	1.4756E-05	2.5244E-05	2.7426E-05	2.4338E-05	2.1694E-05	2.3354E-05	2.4708E-05	2.3892E-05	2.2635E-05	1.7873E-05	1.2127E-05	1.9702E-06	4.8635E-07	2.0640E-07	7.3869E-08	0.0000E+00
NO	TKO21	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2582E-06	1.4732E-05	2.5428E-05	2.7472E-05	2.4324E-05	2.1685E-05	2.3284E-05	2.4965E-05	2.3816E-05	2.2503E-05	1.7961E-05	1.2078E-05	1.9576E-06	4.8972E-07	2.0783E-07	7.3694E-08	0.0000E+00
NO	TKO21	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2245E-06	1.4893E-05	2.5489E-05	2.7543E-05	2.4450E-05	2.1685E-05	2.3284E-05	2.4965E-05	2.3755E-05	2.2690E-05	1.7873E-05	1.2018E-05	1.9480E-06	4.8860E-07	2.0735E-07	7.3347E-08	0.0000E+00
NO	TKO21	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5136E-06	1.5338E-05	2.6271E-05	2.8598E-05	2.5163E-05	2.2427E-05	2.4087E-05	2.5826E-05	2.4643E-05	2.3348E-05	1.8609E-05	1.2524E-05	2.0290E-06	5.0777E-07	2.1505E-07	7.6156E-08	0.0000E+00
NO	TKO21	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6645E-06	1.5619E-05	2.6842E-05	2.9043E-05	2.5746E-05	2.2894E-05	2.4645E-05	2.6476E-05	2.5273E-05	2.3864E-05	1.8875E-05	1.2712E-05	2.0554E-06	5.1527E-07	2.1873E-07	7.7654E-08	0.0000E+00
NO	TKO21	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9545E-06	1.6225E-05	2.7732E-05	3.0023E-05	2.6590E-05	2.3645E-05	2.5322E-05	2.7109E-05	2.5806E-05	2.4538E-05	1.9406E-05	1.3105E-05	2.1230E-06	5.3140E-07	2.2567E-07	8.0187E-08	0.0000E+00
NO	TKO21	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.0598E-06	1.6448E-05	2.8198E-05	3.0491E-05	2.6958E-05	2.3893E-05	2.5750E-05	2.7520E-05	2.6253E-05	2.4987E-05	1.9763E-05	1.3337E-05	2.1715E-06	5.3907E-07	2.3014E-07	8.1757E-08	0.0000E+00
NO	TKO22a	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7247E-06	8.5736E-06	9.2576E-06	9.0147E-06	8.0404E-06	8.3376E-06	8.9825E-06	9.0618E-06	9.8728E-06	6.9074E-06	5.3110E-06	2.6516E-06	1.0418E-06	4.4926E-07	1.5786E-07	0.0000E+00
NO	TKO22a	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5541E-06	8.0601E-06	8.7220E-06	8.4901E-06	7.5581E-06	7.8643E-06	8.5986E-06	8.6697E-06	9.3157E-06	6.5741E-06	5.0493E-06	2.5115E-06	1.0026E-06	4.2528E-07	1.4860E-07	0.0000E+00
NO	TKO22a	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5521E-06	8.0338E-06	8.6697E-06	8.5479E-06	7.5839E-06	7.7654E-06	8.4904E-06	8.5585E-06	9.3157E-06	6.5078E-06	4.9787E-06	2.5278E-06	9.9479E-07	4.2049E-07	1.4736E-07	0.0000E+00
NO	TKO22a	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3468E-06	7.5018E-06	8.0136E-06	7.9112E-06	7.0519E-06	7.3126E-06	7.9954E-06	8.0512E-06	8.7756E-06	6.0916E-06	4.7506E-06	2.3684E-06	9.2641E-07	3.9250E-07	1.3696E-07	0.0000E+00
NO	TKO22a	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.3354E-06	7.9380E-06	7.8369E-06	6.9531E-06	7.2101E-06	7.7448E-06	7.7953E-06	8.5059E-06	5.8967E-06	4.5136E-06	2.3050E-06	9.0053E-07	3.8137E-07	1.3302E-07	0.0000E+00
NO	TKO22a	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1769E-06	6.8680E-06	7.4066E-06	7.3668E-06	6.5754E-06	6.8185E-06	7.2094E-06	7.4971E-06	8.0618E-06	5.6017E-06	4.3733E-06	2.1894E-06	8.4729E-07	3.5837E-07	1.2856E-07	0.0000E+00
NO	TKO22a	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1677E-06	6.9947E-06	7.4378E-06	7.3557E-06	6.5680E-06	6.7674E-06	7.3992E-06	7.4378E-06	7.9428E-06	5.6706E-06	4.3300E-06	2.1543E-06	8.6222E-07	3.6472E-07	1.2779E-07	0.0000E+00
NO	TKO22a	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2271E-06	7.0369E-06	7.4859E-06	7.4501E-06	6.5680E-06	6.7674E-06	7.3992E-06	7.3898E-06	8.1108E-06	5.6017E-06	4.2766E-06	2.1277E-06	8.5723E-07	3.6260E-07	1.2631E-07	0.0000E+00
NO	TKO22a	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3901E-06	7.5736E-06	8.2029E-06	7.9896E-06	7.1280E-06	7.3506E-06	8.0369E-06	8.0857E-06	8.6987E-06	6.1772E-06	4.7248E-06	2.3527E-06	9.4203E-07	3.9681E-07	1.3835E-07	0.0000E+00
NO	TKO22a	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4934E-06	7.9659E-06	8.5047E-06	8.4311E-06	7.4803E-06	7.7568E-06	8.5184E-06	8.5804E-06	9.1601E-06	6.3856E-06	4.8916E-06	2.4266E-06	9.7515E-07	4.1312E-07	1.4478E-07	0.0000E+00
NO	TKO22a	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7142E-06	8.5753E-06	9.1702E-06	9.0686E-06	8.0459E-06	8.2475E-06	8.9865E-06	8.9976E-06	9.7615E-06	6.7990E-06	5.2385E-06	2.6137E-06	1.0463E-06	4.4379E-07	1.5554E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	TKO22a	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7937E-06	8.8906E-06	9.4849E-06	9.3422E-06	8.2307E-06	8.5569E-06	9.2898E-06	9.3467E-06	1.0161E-05	7.0736E-06	5.4395E-06	2.7463E-06	1.0799E-06	4.6339E-07	1.6205E-07	0.0000E+00
NO	TKO22b	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7247E-06	8.5947E-06	9.1501E-06	9.0147E-06	8.0404E-06	8.3376E-06	8.9825E-06	9.0618E-06	9.8728E-06	6.9074E-06	5.3110E-06	2.6516E-06	1.0418E-06	4.4323E-07	1.5786E-07	0.0000E+00
NO	TKO22b	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5541E-06	8.0601E-06	8.7220E-06	8.4901E-06	7.5581E-06	7.8376E-06	8.5694E-06	8.6404E-06	9.2839E-06	6.5741E-06	5.0493E-06	2.5115E-06	1.0026E-06	4.2528E-07	1.4860E-07	0.0000E+00
NO	TKO22b	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5521E-06	8.0064E-06	8.6697E-06	8.5479E-06	7.5581E-06	7.7371E-06	8.4595E-06	8.5271E-06	9.3157E-06	6.4854E-06	4.9787E-06	2.5278E-06	9.9479E-07	4.2049E-07	1.4736E-07	0.0000E+00
NO	TKO22b	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.4686E-06	8.1116E-06	7.8743E-06	6.9862E-06	7.2445E-06	7.9581E-06	8.0136E-06	8.7756E-06	6.0645E-06	4.7310E-06	2.3684E-06	9.2641E-07	3.9250E-07	1.3696E-07	0.0000E+00
NO	TKO22b	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.3354E-06	7.9001E-06	7.7999E-06	6.9531E-06	7.2101E-06	7.7448E-06	7.7550E-06	8.4650E-06	5.8967E-06	4.5136E-06	2.3050E-06	9.0053E-07	3.8137E-07	1.3302E-07	0.0000E+00
NO	TKO22b	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1769E-06	6.8257E-06	7.4066E-06	7.2778E-06	6.5359E-06	6.7366E-06	7.3656E-06	7.4518E-06	8.0129E-06	5.6017E-06	4.3733E-06	2.1894E-06	8.4729E-07	3.5837E-07	1.2482E-07	0.0000E+00
NO	TKO22b	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1543E-06	6.9525E-06	7.3898E-06	7.3085E-06	6.4842E-06	6.7240E-06	7.3517E-06	7.3898E-06	7.8909E-06	5.6706E-06	4.3300E-06	2.1543E-06	8.6222E-07	3.6684E-07	1.2779E-07	0.0000E+00
NO	TKO22b	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1677E-06	7.0369E-06	7.4859E-06	7.4029E-06	6.5261E-06	6.7240E-06	7.3517E-06	7.3898E-06	8.1108E-06	5.6017E-06	4.2500E-06	2.1277E-06	8.5723E-07	3.6260E-07	1.2631E-07	0.0000E+00
NO	TKO22b	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3901E-06	7.5338E-06	8.2029E-06	7.9896E-06	7.0885E-06	7.3506E-06	8.0369E-06	8.0405E-06	8.6497E-06	6.1772E-06	4.7248E-06	2.3527E-06	9.4203E-07	3.9879E-07	1.3835E-07	0.0000E+00
NO	TKO22b	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4934E-06	7.9659E-06	8.5047E-06	8.3941E-06	7.4803E-06	7.7568E-06	8.3801E-06	8.5427E-06	9.1601E-06	6.3856E-06	4.8916E-06	2.4266E-06	9.7515E-07	4.1312E-07	1.4478E-07	0.0000E+00
NO	TKO22b	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7142E-06	8.5753E-06	9.1702E-06	9.0686E-06	7.9534E-06	8.2475E-06	8.9865E-06	8.9976E-06	9.7615E-06	6.7990E-06	5.2385E-06	2.6137E-06	1.0319E-06	4.4379E-07	1.5554E-07	0.0000E+00
NO	TKO22b	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7937E-06	8.8069E-06	9.4849E-06	9.2531E-06	8.2307E-06	8.5569E-06	9.2898E-06	9.3467E-06	1.0135E-05	7.0736E-06	5.4395E-06	2.7463E-06	1.0799E-06	4.6339E-07	1.6205E-07	0.0000E+00
NO	TKO22c	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7247E-06	8.5947E-06	9.1501E-06	9.0147E-06	8.0404E-06	8.3376E-06	8.9825E-06	9.0618E-06	9.8728E-06	6.9074E-06	5.3110E-06	2.6516E-06	1.0418E-06	4.4323E-07	1.5786E-07	0.0000E+00
NO	TKO22c	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5541E-06	8.0601E-06	8.7220E-06	8.4901E-06	7.5581E-06	7.8376E-06	8.5694E-06	8.6404E-06	9.2839E-06	6.5741E-06	5.0493E-06	2.5115E-06	1.0026E-06	4.2528E-07	1.4860E-07	0.0000E+00
NO	TKO22c	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5521E-06	8.0064E-06	8.6697E-06	8.5479E-06	7.5581E-06	7.7371E-06	8.4595E-06	8.5271E-06	9.3157E-06	6.4854E-06	4.9787E-06	2.5278E-06	9.9479E-07	4.2049E-07	1.4736E-07	0.0000E+00
NO	TKO22c	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.4686E-06	8.1116E-06	7.8743E-06	6.9862E-06	7.2445E-06	7.9581E-06	8.0136E-06	8.7756E-06	6.0645E-06	4.7310E-06	2.3684E-06	9.2641E-07	3.9250E-07	1.3696E-07	0.0000E+00
NO	TKO22c	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.3354E-06	7.9001E-06	7.7999E-06	6.9531E-06	7.2101E-06	7.7448E-06	7.7550E-06	8.4650E-06	5.8967E-06	4.5136E-06	2.3050E-06	9.0053E-07	3.8137E-07	1.3302E-07	0.0000E+00
NO	TKO22c	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1769E-06	6.8257E-06	7.4066E-06	7.2778E-06	6.5359E-06	6.7366E-06	7.3656E-06	7.4518E-06	8.0129E-06	5.6017E-06	4.3733E-06	2.1894E-06	8.4729E-07	3.5837E-07	1.2482E-07	0.0000E+00
NO	TKO22c	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1543E-06	6.9525E-06	7.3898E-06	7.3085E-06	6.4842E-06	6.7240E-06	7.3517E-06	7.3898E-06	7.8909E-06	5.6706E-06	4.3300E-06	2.1543E-06	8.6222E-07	3.6684E-07	1.2779E-07	0.0000E+00
NO	TKO22c	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1677E-06	7.0369E-06	7.4859E-06	7.4029E-06	6.5261E-06	6.7240E-06	7.3517E-06	7.3898E-06	8.1108E-06	5.6017E-06	4.2500E-06	2.1277E-06	8.5723E-07	3.6260E-07	1.2631E-07	0.0000E+00
NO	TKO22c	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3901E-06	7.5338E-06	8.2029E-06	7.9896E-06	7.0885E-06	7.3506E-06	8.0369E-06	8.0405E-06	8.6497E-06	6.1772E-06	4.7248E-06	2.3527E-06	9.4203E-07	3.9879E-07	1.3835E-07	0.0000E+00
NO	TKO22c	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4934E-06	7.9659E-06	8.5047E-06	8.3941E-06	7.4803E-06	7.7568E-06	8.3801E-06	8.5427E-06	9.1601E-06	6.3856E-06	4.8916E-06	2.4266E-06	9.7515E-07	4.1312E-07	1.4478E-07	0.0000E+00
NO	TKO22c	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7142E-06	8.5753E-06	9.1702E-06	9.0686E-06	7.9534E-06	8.2475E-06	8.9865E-06	8.9976E-06	9.7615E-06	6.7990E-06	5.2385E-06	2.6137E-06	1.0319E-06	4.4379E-07	1.5554E-07	0.0000E+00
NO	TKO22c	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7937E-06	8.8069E-06	9.4849E-06	9.2531E-06	8.2307E-06	8.5569E-06	9.2898E-06	9.3467E-06	1.0135E-05	7.0736E-06	5.4395E-06	2.7463E-06	1.0799E-06	4.6339E-07	1.6205E-07	0.0000E+00
NO	TKO22d	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7247E-06	8.5947E-06	9.1501E-06	9.0147E-06	8.0404E-06	8.3376E-06	8.9825E-06	9.0618E-06	9.8728E-06	6.9074E-06	5.3110E-06	2.6516E-06	1.0418E-06	4.4323E-07	1.5786E-07	0.0000E+00
NO	TKO22d	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5541E-06	8.0601E-06	8.7220E-06	8.4901E-06	7.5581E-06	7.8376E-06	8.5694E-06	8.6404E-06	9.2839E-06	6.5741E-06	5.0493E-06	2.5115E-06	1.0026E-06	4.2528E-07	1.4860E-07	0.0000E+00
NO	TKO22d	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5521E-06	8.0064E-06	8.6697E-06	8.5479E-06	7.5581E-06	7.7371E-06	8.4595E-06	8.5271E-06	9.3157E-06	6.4854E-06	4.9787E-06	2.5278E-06	9.9479E-07	4.2049E-07	1.4736E-07	0.0000E+00
NO	TKO22d	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.4686E-06	8.1116E-06	7.8743E-06	6.9862E-06	7.2445E-06	7.9581E-06	8.0136E-06	8.7756E-06	6.0645E-06	4.7310E-06	2.3684E-06	9.2641E-07	3.9250E-07	1.3696E-07	0.0000E+00
NO	TKO22d	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.3354E-06	7.9001E-06	7.7999E-06	6.9531E-06	7.2101E-06	7.7448E-06	7.7550E-06	8.4650E-06	5.8967E-06	4.5136E-06	2.3050E-06	9.0053E-07	3.8137E-07	1.3302E-07	0.0000E+00
NO	TKO22d	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1769E-06	6.8257E-06	7.4066E-06	7.2778E-06	6.5359E-06	6.7366E-06	7.3656E-06	7.4518E-06	8.0129E-06	5.6017E-06	4.3733E-06	2.1894E-06	8.4729E-07	3.5837E-07	1.2482E-07	0.0000E+00
NO	TKO22d	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1543E-06	6.9525E-06	7.3898E-06	7.3085E-06	6.4842E-06	6.7240E-06	7.3517E-06	7.3898E-06	7.8909E-06	5.6706E-06	4.3300E-06	2.1543E-06	8.6222E-07	3.6684E-07	1.2779E-07	0.0000E+00
NO	TKO22d	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1677E-06	7.0369E-06	7.4859E-06	7.4029E-06	6.5261E-06	6.7240E-06	7.3517E-06	7.3898E-06	8.1108E-06	5.6017E-06	4.2500E-06	2.1277E-06	8.5723E-07	3.6260E-07	1.2631E-07	0.0000E+00
NO	TKO22d	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3901E-06	7.5338E-06	8.2029E-06	7.9896E-06	7.0885E-06	7.3506E-06	8.0369E-06	8.0405E-06	8.6497E-06	6.1772E-06	4.7248E-06	2.3527E-06	9.4203E-07	3.9879E-07	1.3835E-07	0.0000E+00
NO	TKO22d	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4934E-06	7.9659E-06	8.5047E-06	8.3941E-06	7.4803E-06	7.7568E-06	8.3801E-06	8.5427E-06	9.1601E-06	6.3856E-06	4.8916E-06	2.4266E-06	9.7515E-07	4.1312E-07	1.4478E-07	0.0000E+00
NO	TKO22d	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7142E-06	8.5753E-06	9.1702E-06	9.0686E-06	7.9534E-06	8.2475E-06	8.9865E-06	8.9976E-06	9.7615E-06	6.7990E-06	5.2385E-06	2.6137E-06	1.0319E-06	4.4379E-07	1.5554E-07	0.0000E+00
NO	TKO22d	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7937E-06	8.8069E-06	9.4849E-06	9.2531E-06	8.2307E-06	8.5569E-06	9.2898E-06	9.3467E-06	1.0135E-05	7.0736E-06	5.4395E-06	2.7463E-06	1.0799E-06	4.6339E-07	1.6205E-07	0.0000E+00
NO	TKO22e	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7247E-06	8.5947E-06	9.1501E-06	9.0147E-06	8.0404E-06	8.3376E-06	8.9825E-06	9.0618E-06	9.8728E-06	6.9074E-06	5.3110E-06	2.6516E-06	1.0418E-06	4.4323E-07	1.5786E-07	0.0000E+00
NO	TKO22e	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5541E-06	8.0601E-06	8.7220E-06	8.4901E-06	7.5581E-06	7.8376E-06	8.5694E-06	8.6404E-06	9.2839E-06	6.5741E-06	5.0493E-06	2.5115E-06	1.0026E-06	4.2528E-07	1.4860E-07	0.0000E+00
NO	TKO22e	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5521E-06	8.0064E-06	8.6697E-06	8.5479E-06	7.5581E-06	7.7371E-06	8.4595E-06	8.5271E-06	9.3157E-06	6.4854E-06	4.9787E-06	2.5278E-06	9.9479E-07	4.2049E-07	1.4736E-07	0.0000E+00
NO	TKO22e	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.4686E-06	8.1116E-06	7.8743E-06	6.9862E-06	7.2445E-06	7.9581E-06	8.0136E-06	8.7756E-06	6.0645E-06	4.7310E-06	2.3684E-06	9.2641E-07	3.9250E-07	1.3696E-07	0.0000E+00
NO	TKO22e	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.3354E-06	7.9001E-06	7.7999E-06	6.9531E-06	7.2101E-06	7.7448E-06	7.7550E-06	8.4650E-06	5.8967E-06	4.5136E-06	2.3050E-06	9.0053E-07	3.8137E-07	1.3302E-07	0.0000E+00
NO	TKO22e	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1769E-06	6.8257E-06	7.4066E-06	7.2778E-06	6.5359E-06	6.7366E-06	7.3656E-06	7.4518E-06	8.0129E-06	5.6017E-06	4.3733E-06	2.1894E-06	8.4729E-07	3.5837E-07	1.2482E-07	0.0000E+00
NO	TKO22e	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1543E-06	6.9525E-06	7.3898E-06	7.3085E-06	6.4842E-06	6.7240E-06	7.3517E-06	7.3898E-06	7.8909E-06	5.6706E-06	4.3300E-06	2.1543E-06	8.6222E-07	3.6684E-07	1.2779E-07	0.0000E+00
NO	TKO22e	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1677E-06	7.0369E-06	7.4859E-06	7.4029E-06	6.5261E-06	6.7240E-06	7.3517E-06	7.3898E-06	8.1108E-06	5.6017E-06	4.2500E-06	2.1277E-06	8.5723E-07	3.6260E-07	1.2631E-07	0.0000E+00
NO	TKO22e	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3901E-06	7.5338E-06	8.2029E-06	7.9896E-06	7.0885E-06	7.3506E-06	8.0369E-06	8.0405E-06	8.6497E-06	6.1772E-06	4.7248E-06	2.3527E-06	9.4203E-07	3.9879E-07	1.3835E-07	0.0000E+00
NO	TKO22e	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4934E-06	7.9659E-06	8.5047E-06	8.3941E-06	7.4803E-06	7.7568E-06	8.3801E-06	8.5427E-06	9.1601E-06	6.3856E-06	4.8916E-06	2.4266E-06	9.7515E-07	4.1312E-07	1.4478E-07	0.0000E+00
NO	TKO22e	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7142E-06	8.5753E-06	9.1702E-06	9.0686E-06	7.9534E-06	8.2475E-06	8.9865E-06	8.9976E-06	9.7615E-06	6.7990E-06	5.2385E-06	2.6137E-06	1.0319E-06	4.4379E-07	1.5554E-07	0.0000E+00
NO	TKO22e	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7937E-06	8.8069E-06	9.4849E-06	9.2531E-06	8.2307E-06	8.5569E-06	9.2898E-06	9.3467E-06	1.0135E-05	7.0736E-06	5.4395E-06	2.7463E-06	1.0799E-06	4.6339E-07	1.6205E-07	0.0000E+00
NO	TKO22f	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7247E-06	8.5947E-06	9.1501E-06	9.0147E-06	8.0404E-06	8.3376E-06	8.9825E-06	9.0618E-06	9.8728E-06	6.9074E-06	5.3110E-06	2.6516E-06	1.0418E-06	4.4323E-07	1.5786E-07	0.0000E+00
NO	TKO22f	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5541E-06	8.0601E-06	8.7220E-06	8.4901E-06	7.5581E-06	7.8376E-06	8.5694E-06	8.6404E-06	9.2839E-06	6.5741E-06	5.0493E-06	2.5115E-06	1.0026E-06	4.2528E-07	1.4860E-07	0.0000E+00
NO	TKO22f	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5521E-06	8.0064E-06	8.6697E-06	8.5479E-06	7.5581E-06	7.7371E-06	8.4595E-06	8.5271E-06	9.3157E-06	6.4854E-06	4.9787E-06	2.5278E-06	9.9479E-07	4.2049E-07	1.4736E-07	0.0000E+00
NO	TKO22f	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.4686E-06	8.1116E-06	7.8743E-06	6.9862E-06	7.2445E-06	7.9581E-06	8.0136E-06	8.7756E-06	6.0645E-06	4.7310E-06	2.3684E-06	9.2641E-07	3.9250E-07	1.3696E-07	0.0000E+00
NO	TKO22f	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.3354E-06	7.9001E-06	7.7999E-06	6.9531E-06	7.2101E-06	7.7448E-06	7.7550E-06	8.4650E-06	5.8967E-06	4.5136E-06	2.3050E-06	9.0053E-07	3.8137E-07	1.3302E-07	0.0000E+00
NO	TKO22f	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1769E-06	6.8257E-06	7.4066E-06	7.2778E-06	6.5359E-06	6.7366E-06	7.3656E-06	7.4518E-06	8.0129E-06	5.6017E-06	4.3733E-06	2.1894E-06	8.4729E-07	3.5837E-07	1.2482E-07	0.0000E+00
NO	TKO22f	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1543E-06	6.9525E-06	7.3898E-06	7.3085E-06	6.4842E-06	6.7240E-06	7.3517E-06	7.3898E-06	7.8909E-06	5.6706E-06	4.3300E-06	2.1543E-06	8.6222E-07	3.6684E-07	1.2779E-07	0.0000E+00
NO	TKO22f	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1677E-06	7.0369E-06	7.4859E-06	7.4029E-06	6.5261E-06	6.7240E-06	7.3517E-06	7.3898E-06	8.1108E-06	5.6017E-06	4.2500E-06	2.1277E-06	8.5723E-07	3.6260E-07	1.2631E-07	0.0000E+00
NO	TKO22f	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3901E-06	7.5338E-06	8.2029E-06	7.9896E-06	7.0885E-06	7.3506E-06	8.0369E-06	8.0405E-06	8.6497E-06	6.1772E-06	4.7248E-06	2.3527E-06	9.4203E-07	3.9879E-07	1.3835E-07	0.0000E+00
NO	TKO22f	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4934E-06	7.9659E-06	8.5047E-06	8.3941E-06	7.4803E-06	7.7568E-06	8.3801E-06	8.5427E-06	9.1601E-06	6.3856E-06	4.8916E-06	2.4266E-06	9.7515E-07	4.1312E-07	1.4478E-07	0.0000E+00
NO	TKO22f	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7142E-06	8.5753E-06	9.1702E-06	9.0686E-06	7.9534E-06	8.2475E-06	8.9865E-06	8.9976E-06	9.7615E-06	6.7990E-06	5.2385E-06	2.6137E-06	1.0319E-06	4.4379E-07	1.5554E-07	0.0000E+00
NO	TKO22f	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7937E-06	8.8069E-06	9.4849E-06	9.2531E-06	8.2307E-06	8.5569E-06	9.2898E-06	9.3467E-06	1.0135E-05	7.0736E-06	5.4395E-06	2.7463E-06	1.0799E-06	4.6339E-07	1.6205E-07	0.0000E+00
NO	TKO22g	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7247E-06	8.5947E-06	9.1501E-06	9.0147E-06	8.0404E-06	8.3376E-06	8.9825E-06	9.0618E-06	9.8728E-06	6.9074E-06	5.3110E-06	2.6516E-06	1.0418E-06	4.4323E-07	1.5786E-07	0.0000E+00
NO	TKO22g	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5541E-06	8.0601E-06	8.7220E-06	8.4901E-06	7.5581E-06	7.8376E-06	8.5694E-06	8.6404E-06	9.2839E-06	6.5741E-06	5.0493E-06	2.5115E-06	1.0026E-06	4.2528E-07	1.4860E-07	0.0000E+00
NO	TKO22g	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5521E-06	8.0064E-06	8.6697E-06	8.5479E-06	7.5581E-06	7.7371E-06	8.4595E-06	8.5271E-06	9.3157E-06	6.4854E-06	4.9787E-06	2.5278E-06	9.9479E-07	4.2049E-07	1.4736E-07	0.0000E+00
NO	TKO22g	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.4686E-06	8.1116E-06	7.8743E-06	6.9862E-06	7.2445E-06	7.9581E-06	8.0136E-06	8.7756E-06	6.0645E-06	4.7310E-06	2.3684E-06	9.2641E-07	3.9250E-07	1.3696E-07	0.0000E+00
NO	TKO22g	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.3354E-06	7.9001E-06	7.7999E-06	6.9531E-06	7.2101E-06	7.7448E-06	7.7550E-06	8.4650E-06	5.8967E-06	4.5136E-06	2.3050E-06	9.0053E-07	3.8137E-07	1.3302E-07	0.0000E+00
NO	TKO22g	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1769E-06	6.8257E-06	7.4066E-06	7.2778E-06	6.5359E-06	6.7366E-06	7.3656E-06	7.4518E-06	8.0129E-06	5.6017E-06	4.3733E-06	2.1894E-06	8.4729E-07	3.5837E-07	1.2482E-07	0.0000E+00
NO	TKO22g	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1543E-06	6.9525E-06	7.3898E-06	7.3085E-06	6.4842E-06	6.7240E-06	7.3517E-06	7.3898E-06	7.8909E-06	5.6706E-06	4.3300E-06	2.1543E-06	8.6222E-07	3.6684E-07	1.2779E-07	0.0000E+00
NO	TKO22g	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1677E-06	7.0369E-06	7.4859E-06	7.4029E-06	6.5261E-06	6.7240E-06	7.3517E-06	7.3898E-06	8.1108E-06	5.6017E-06	4.2500E-06	2.1277E-06	8.5723E-07	3.6260E-07	1.2631E-07	0.0000E+00
NO	TKO22g	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3901E-06	7.5338E-06	8.2029E-06	7.9896E-06	7.0885E-06	7.3506E-06	8.0369E-06	8.0405E-06	8.6497E-06	6.1772E-06	4.7248E-06	2.3527E-06	9.4203E-07	3.9879E-07	1.3835E-07	0.0000E+00
NO	TKO22g	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4934E-06	7.9659E-06	8.5047E-06	8.3941E-06	7.4803E-06	7.7568E-06	8.3801E-06	8.5427E-06	9.1601E-06	6.3856E-06	4.8916E-06	2.4266E-06	9.7515E-07	4.1312E-07	1.4478E-07	0.0000E+00
NO	TKO22g	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7142E-06	8.5753E-06	9.1702E-06	9.0686E-06	7.9534E-06	8.2475E-06	8.9865E-06	8.9976E-06	9.7615E-06	6.7990E-06	5.2385E-06	2.6137E-06	1.0319E-06	4.4379E-07	1.5554E-07	0.0000E+00
NO	TKO22g	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7937E-06	8.8069E-06	9.4849E-06	9.2531E-06	8.2307E-06	8.5569E-06	9.2898E-06	9.3467E-06	1.0135E-05	7.0736E-06	5.4395E-06	2.7463E-06	1.0799E-06	4.6339E-07	1.6205E-07	0.0000E+00
NO	TKO22h	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7247E-06	8.5736E-06	9.2576E-06	9.0147E-06	8.0404E-06	8.3376E-06	8.9825E-06	9.0618E-06	9.8728E-06	6.9074E-06	5.3110E-06	2.6516E-06	1.0418E-06	4.4926E-07	1.5786E-07	0.0000E+00
NO	TKO22h	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5541E-06	8.0601E-06	8.7220E-06	8.4901E-06	7.5581E-06	7.8643E-06	8.5986E-06	8.6697E-06	9.3157E-06	6.5741E-06	5.0493E-06	2.5115E-06	1.0026E-06	4.2528E-07	1.4860E-07	0.0000E+00
NO	TKO22h	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5521E-06	8.0338E-06	8.6697E-06	8.5479E-06	7.5839E-06	7.7654E-06	8.4904E-06	8.5585E-06	9.3157E-06	6.5078E-06	4.9787E-06	2.5278E-06	9.9479E-07	4.2049E-07	1.4736E-07	0.0000E+00
NO	TKO22h	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3468E-06	7.5018E-06	8.0136E-06	7.9112E-06	7.0519E-06	7.3126E-06	7.9954E-06	8.0512E-06	8.7756E-06	6.0916E-06	4.7506E-06	2.3684E-06	9.2641E-07	3.9250E-07	1.3696E-07	0.0000E+00
NO	TKO22h	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3364E-06	7.3354E-06	7.9380E-06	7.8369E-06	6.9531E-06	7.2101E-06	7.7448E-06	7.7953E-06	8.5059E-06	5.8967E-06	4.5136E-06	2.3050E-06	9.0053E-07	3.8137E-07	1.3302E-07	0.0000E+00
NO	TKO22h	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1769E-06	6.8680E-06	7.4066E-06	7.3668E-06	6.5754E-06	6.8185E-06	7.2094E-06	7.4971E-06	8.0618E-06	5.6017E-06	4.3733E-06	2.1894E-06	8.4729E-07	3.5837E-07	1.2856E-07	0.0000E+00
NO	TKO22h	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1677E-06	6.9947E-06	7.4378E-06	7.3557E-06	6.5680E-06	6.7674E-06	7.3992E-06	7.4378E-06	7.9428E-06	5.6706E-06	4.3300E-06	2.1543E-06	8.6222E-07	3.6472E-07	1.2779E-07	0.0000E+00
NO	TKO22h	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2271E-06	7.0369E-06	7.4859E-06	7.4501E-06	6.5680E-06	6.7674E-06	7.3992E-06	7.3898E-06	8.1108E-06	5.6017E-06	4.2766E-06	2.1277E-06	8.5723E-07	3.6260E-07	1.2631E-07	0.0000E+00
NO	TKO22h	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3901E-06	7.5736E-06	8.2029E-06	7.9896E-06	7.1280E-06	7.3506E-06	8.0369E-06	8.0857E-06	8.6987E-06	6.1772E-06	4.7248E-06	2.3527E-06	9.4203E-07	3.9681E-07	1.3835E-07	0.0000E+00
NO	TKO22h	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4934E-06	7.9659E-06	8.5047E-06	8.4311E-06	7.4803E-06	7.7568E-06	8.5184E-06	8.5804E-06	9.1601E-06	6.3856E-06	4.8916E-06	2.4266E-06	9.7515E-07	4.1312E-07	1.4478E-07	0.0000E+00
NO	TKO22h	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7142E-06	8.5753E-06	9.1702E-06	9.0686E-06	8.0459E-06	8.2475E-06	8.9865E-06	8.9976E-06	9.7615E-06	6.7990E-06	5.2385E-06	2.6137E-06	1.0463E-06	4.4379E-07	1.5554E-07	0.0000E+00
NO	TKO22h	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7937E-06	8.8906E-06	9.4849E-06	9.3422E-06	8.2307E-06	8.5569E-06	9.2898E-06	9.3467E-06	1.0161E-05	7.0736E-06	5.4395E-06	2.7463E-06	1.0799E-06	4.6339E-07	1.6205E-07	0.0000E+00
NO	TKO23a	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1998E-05	1.2081E-05	1.1999E-05	1.2088E-05	1.1979E-05	1.2043E-05	1.2043E-05	1.1867E-05	1.1833E-05	1.1916E-05	1.1853E-05	1.1790E-05	4.8102E-06	4.7714E-06	4.8360E-06	4.8482E-06	0.0000E+00
NO	TKO23a	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1192E-05	1.1328E-05	1.1283E-05	1.1391E-05	1.1285E-05	1.1323E-05	1.1361E-05	1.1361E-05	1.1323E-05	1.1246E-05	1.1283E-05	1.1211E-05	4.5568E-06	4.5925E-06	4.5787E-06	4.5649E-06	0.0000E+00
NO	TKO23a	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1361E-05	1.1319E-05	1.1246E-05	1.1323E-05	1.1361E-05	1.1361E-05	1.1219E-05	1.1219E-05	1.1178E-05	1.1246E-05	1.1170E-05	1.1055E-05	4.5862E-06	4.5568E-06	4.5274E-06	4.5274E-06	0.0000E+00
NO	TKO23a	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0420E-05	1.0411E-05	1.0504E-05	1.0468E-05	1.0518E-05	1.0567E-05	1.0567E-05	1.0567E-05	1.0518E-05	1.0596E-05	1.0457E-05	1.0550E-05	4.2982E-06	4.2447E-06	4.2269E-06	4.2092E-06	0.0000E+00
NO	TKO23a	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0226E-05	1.0365E-05	1.0271E-05	1.0370E-05	1.0419E-05	1.0419E-05	1.0419E-05	1.0236E-05	1.0184E-05	1.0271E-05	1.0124E-05	1.0025E-05	4.1833E-06	4.1265E-06	4.1076E-06	4.0887E-06	0.0000E+00
NO	TKO23a	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7656E-06	9.6593E-06	9.6189E-06	9.6777E-06	9.7958E-06	9.8547E-06	9.8547E-06	9.5309E-06	9.7958E-06	9.7368E-06	9.6189E-06	9.7148E-06	3.9742E-06	3.8834E-06	3.8606E-06	3.9522E-06	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	TKO23a	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7704E-06	9.6189E-06	9.7958E-06	9.7185E-06	9.7810E-06	9.8436E-06	9.7810E-06	9.7810E-06	9.7185E-06	9.5933E-06	9.7368E-06	9.6189E-06	3.9108E-06	3.9515E-06	3.9288E-06	3.9288E-06	0.0000E+00
NO	TKO23a	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6593E-06	9.8816E-06	9.8547E-06	9.7810E-06	9.9062E-06	9.8436E-06	9.7810E-06	9.7810E-06	9.6559E-06	9.7958E-06	9.6189E-06	9.5008E-06	3.8626E-06	3.9288E-06	3.9061E-06	3.8834E-06	0.0000E+00
NO	TKO23a	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0616E-05	1.0602E-05	1.0604E-05	1.0715E-05	1.0621E-05	1.0680E-05	1.0621E-05	1.0621E-05	1.0562E-05	1.0503E-05	1.0604E-05	1.0493E-05	4.2698E-06	4.3160E-06	4.2732E-06	4.2518E-06	0.0000E+00
NO	TKO23a	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1115E-05	1.1059E-05	1.1152E-05	1.1108E-05	1.1206E-05	1.1206E-05	1.1206E-05	1.1256E-05	1.1206E-05	1.1059E-05	1.0961E-05	1.0862E-05	4.4033E-06	4.4673E-06	4.4484E-06	4.4484E-06	0.0000E+00
NO	TKO23a	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2074E-05	1.2036E-05	1.2002E-05	1.1975E-05	1.2051E-05	1.2051E-05	1.1913E-05	1.1872E-05	1.1750E-05	1.1783E-05	1.1668E-05	1.1630E-05	4.7418E-06	4.7922E-06	4.7775E-06	4.7775E-06	0.0000E+00
NO	TKO23a	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2422E-05	1.2386E-05	1.2441E-05	1.2384E-05	1.2413E-05	1.2327E-05	1.2359E-05	1.2271E-05	1.2204E-05	1.2264E-05	1.2137E-05	1.2074E-05	4.9814E-06	4.9450E-06	4.9876E-06	4.9762E-06	0.0000E+00
NO	TKO23b	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1998E-05	1.2081E-05	1.1999E-05	1.2088E-05	1.1979E-05	1.2043E-05	1.2043E-05	1.1867E-05	1.1833E-05	1.1916E-05	1.1853E-05	1.1790E-05	4.8102E-06	4.7714E-06	4.8360E-06	4.8482E-06	0.0000E+00
NO	TKO23b	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1192E-05	1.1328E-05	1.1283E-05	1.1391E-05	1.1285E-05	1.1323E-05	1.1361E-05	1.1361E-05	1.1323E-05	1.1246E-05	1.1283E-05	1.1211E-05	4.5568E-06	4.5925E-06	4.5787E-06	4.5649E-06	0.0000E+00
NO	TKO23b	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1361E-05	1.1319E-05	1.1246E-05	1.1323E-05	1.1361E-05	1.1361E-05	1.1219E-05	1.1219E-05	1.1178E-05	1.1246E-05	1.1170E-05	1.1055E-05	4.5862E-06	4.5568E-06	4.5274E-06	4.5274E-06	0.0000E+00
NO	TKO23b	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0420E-05	1.0411E-05	1.0504E-05	1.0468E-05	1.0518E-05	1.0567E-05	1.0567E-05	1.0567E-05	1.0518E-05	1.0596E-05	1.0457E-05	1.0550E-05	4.2982E-06	4.2447E-06	4.2269E-06	4.2092E-06	0.0000E+00
NO	TKO23b	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0226E-05	1.0365E-05	1.0271E-05	1.0370E-05	1.0419E-05	1.0419E-05	1.0419E-05	1.0236E-05	1.0184E-05	1.0271E-05	1.0124E-05	1.0025E-05	4.1833E-06	4.1265E-06	4.1076E-06	4.0887E-06	0.0000E+00
NO	TKO23b	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7656E-06	9.6593E-06	9.6189E-06	9.6777E-06	9.7958E-06	9.8547E-06	9.8547E-06	9.5309E-06	9.7958E-06	9.7368E-06	9.6189E-06	9.7148E-06	3.9742E-06	3.8834E-06	3.8606E-06	3.9522E-06	0.0000E+00
NO	TKO23b	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7704E-06	9.6189E-06	9.7958E-06	9.7185E-06	9.7810E-06	9.8436E-06	9.7810E-06	9.7810E-06	9.7185E-06	9.5933E-06	9.7368E-06	9.6189E-06	3.9108E-06	3.9515E-06	3.9288E-06	3.9288E-06	0.0000E+00
NO	TKO23b	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6593E-06	9.8816E-06	9.8547E-06	9.7810E-06	9.9062E-06	9.8436E-06	9.7810E-06	9.7810E-06	9.6559E-06	9.7958E-06	9.6189E-06	9.5008E-06	3.8626E-06	3.9288E-06	3.9061E-06	3.8834E-06	0.0000E+00
NO	TKO23b	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0616E-05	1.0602E-05	1.0604E-05	1.0715E-05	1.0621E-05	1.0680E-05	1.0621E-05	1.0621E-05	1.0562E-05	1.0503E-05	1.0604E-05	1.0493E-05	4.2698E-06	4.3160E-06	4.2732E-06	4.2518E-06	0.0000E+00
NO	TKO23b	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1115E-05	1.1059E-05	1.1152E-05	1.1108E-05	1.1206E-05	1.1206E-05	1.1206E-05	1.1256E-05	1.1206E-05	1.1059E-05	1.0961E-05	1.0862E-05	4.4033E-06	4.4673E-06	4.4484E-06	4.4484E-06	0.0000E+00
NO	TKO23b	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2074E-05	1.2036E-05	1.2002E-05	1.1975E-05	1.2051E-05	1.2051E-05	1.1913E-05	1.1872E-05	1.1750E-05	1.1783E-05	1.1668E-05	1.1630E-05	4.7418E-06	4.7922E-06	4.7775E-06	4.7775E-06	0.0000E+00
NO	TKO23b	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2422E-05	1.2386E-05	1.2441E-05	1.2384E-05	1.2413E-05	1.2327E-05	1.2359E-05	1.2271E-05	1.2204E-05	1.2264E-05	1.2137E-05	1.2074E-05	4.9814E-06	4.9450E-06	4.9876E-06	4.9762E-06	0.0000E+00
NO	TKO23c	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1998E-05	1.2081E-05	1.1999E-05	1.2088E-05	1.1979E-05	1.2043E-05	1.2043E-05	1.1867E-05	1.1833E-05	1.1916E-05	1.1853E-05	1.1790E-05	4.8102E-06	4.7714E-06	4.8360E-06	4.8482E-06	0.0000E+00
NO	TKO23c	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1192E-05	1.1328E-05	1.1283E-05	1.1391E-05	1.1285E-05	1.1323E-05	1.1361E-05	1.1361E-05	1.1323E-05	1.1246E-05	1.1283E-05	1.1211E-05	4.5568E-06	4.5925E-06	4.5787E-06	4.5649E-06	0.0000E+00
NO	TKO23c	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1361E-05	1.1319E-05	1.1246E-05	1.1323E-05	1.1361E-05	1.1361E-05	1.1219E-05	1.1219E-05	1.1178E-05	1.1246E-05	1.1170E-05	1.1055E-05	4.5862E-06	4.5568E-06	4.5274E-06	4.5274E-06	0.0000E+00
NO	TKO23c	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0420E-05	1.0411E-05	1.0504E-05	1.0468E-05	1.0518E-05	1.0567E-05	1.0567E-05	1.0567E-05	1.0518E-05	1.0596E-05	1.0457E-05	1.0550E-05	4.2982E-06	4.2447E-06	4.2269E-06	4.2092E-06	0.0000E+00
NO	TKO23c	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0226E-05	1.0365E-05	1.0271E-05	1.0370E-05	1.0419E-05	1.0419E-05	1.0419E-05	1.0236E-05	1.0184E-05	1.0271E-05	1.0124E-05	1.0025E-05	4.1833E-06	4.1265E-06	4.1076E-06	4.0887E-06	0.0000E+00
NO	TKO23c	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7656E-06	9.6593E-06	9.6189E-06	9.6777E-06	9.7958E-06	9.8547E-06	9.8547E-06	9.5309E-06	9.7958E-06	9.7368E-06	9.6189E-06	9.7148E-06	3.9742E-06	3.8834E-06	3.8606E-06	3.9522E-06	0.0000E+00
NO	TKO23c	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7704E-06	9.6189E-06	9.7958E-06	9.7185E-06	9.7810E-06	9.8436E-06	9.7810E-06	9.7810E-06	9.7185E-06	9.5933E-06	9.7368E-06	9.6189E-06	3.9108E-06	3.9515E-06	3.9288E-06	3.9288E-06	0.0000E+00
NO	TKO23c	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6593E-06	9.8816E-06	9.8547E-06	9.7810E-06	9.9062E-06	9.8436E-06	9.7810E-06	9.7810E-06	9.6559E-06	9.7958E-06	9.6189E-06	9.5008E-06	3.8626E-06	3.9288E-06	3.9061E-06	3.8834E-06	0.0000E+00
NO	TKO23c	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0616E-05	1.0602E-05	1.0604E-05	1.0715E-05	1.0621E-05	1.0680E-05	1.0621E-05	1.0621E-05	1.0562E-05	1.0503E-05	1.0604E-05	1.0493E-05	4.2698E-06	4.3160E-06	4.2732E-06	4.2518E-06	0.0000E+00
NO	TKO23c	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1115E-05	1.1059E-05	1.1152E-05	1.1108E-05	1.1206E-05	1.1206E-05	1.1206E-05	1.1256E-05	1.1206E-05	1.1059E-05	1.0961E-05	1.0862E-05	4.4033E-06	4.4673E-06	4.4484E-06	4.4484E-06	0.0000E+00
NO	TKO23c	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2074E-05	1.2036E-05	1.2002E-05	1.1975E-05	1.2051E-05	1.2051E-05	1.1913E-05	1.1872E-05	1.1750E-05	1.1783E-05	1.1668E-05	1.1630E-05	4.7418E-06	4.7922E-06	4.7775E-06	4.7775E-06	0.0000E+00
NO	TKO23c	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2422E-05	1.2386E-05	1.2441E-05	1.2384E-05	1.2413E-05	1.2327E-05	1.2359E-05	1.2271E-05	1.2204E-05	1.2264E-05	1.2137E-05	1.2074E-05	4.9814E-06	4.9450E-06	4.9876E-06	4.9762E-06	0.0000E+00
NO	TKO23d	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2026E-05	1.2081E-05	1.2029E-05	1.1948E-05	1.1979E-05	1.2043E-05	1.2043E-05	1.1867E-05	1.1833E-05	1.1916E-05	1.1853E-05	1.1790E-05	4.8102E-06	4.7714E-06	4.7714E-06	4.8482E-06	0.0000E+00
NO	TKO23d	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1192E-05	1.1328E-05	1.1283E-05	1.1391E-05	1.1285E-05	1.1323E-05	1.1323E-05	1.1323E-05	1.1285E-05	1.1208E-05	1.1283E-05	1.1211E-05	4.5568E-06	4.5925E-06	4.5787E-06	4.5649E-06	0.0000E+00
NO	TKO23d	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1175E-05	1.1319E-05	1.1208E-05	1.1323E-05	1.1361E-05	1.1323E-05	1.1178E-05	1.1178E-05	1.1137E-05	1.1246E-05	1.1131E-05	1.1055E-05	4.5862E-06	4.5568E-06	4.5274E-06	4.5274E-06	0.0000E+00
NO	TKO23d	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0420E-05	1.0365E-05	1.0457E-05	1.0596E-05	1.0468E-05	1.0468E-05	1.0468E-05	1.0518E-05	1.0468E-05	1.0596E-05	1.0411E-05	1.0507E-05	4.2982E-06	4.2447E-06	4.2269E-06	4.2092E-06	0.0000E+00
NO	TKO23d	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0226E-05	1.0365E-05	1.0271E-05	1.0321E-05	1.0370E-05	1.0419E-05	1.0419E-05	1.0236E-05	1.0132E-05	1.0222E-05	1.0124E-05	1.0025E-05	4.1833E-06	4.1265E-06	4.1076E-06	4.0887E-06	0.0000E+00
NO	TKO23d	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7133E-06	9.6593E-06	9.5598E-06	9.6777E-06	9.6777E-06	9.7958E-06	9.7368E-06	9.7368E-06	9.7368E-06	9.6777E-06	9.6189E-06	9.7148E-06	3.9742E-06	3.8834E-06	3.8606E-06	3.8379E-06	0.0000E+00
NO	TKO23d	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5008E-06	9.5598E-06	9.7368E-06	9.6559E-06	9.7185E-06	9.7185E-06	9.7185E-06	9.7185E-06	9.6559E-06	9.5309E-06	9.7368E-06	9.6189E-06	3.9108E-06	3.9515E-06	3.9515E-06	3.9288E-06	0.0000E+00
NO	TKO23d	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6593E-06	9.6189E-06	9.8547E-06	9.7810E-06	9.8436E-06	9.7810E-06	9.7185E-06	9.7185E-06	9.6559E-06	9.7958E-06	9.6189E-06	9.4419E-06	3.8626E-06	3.9288E-06	3.9061E-06	3.8834E-06	0.0000E+00
NO	TKO23d	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0616E-05	1.0602E-05	1.0548E-05	1.0715E-05	1.0621E-05	1.0621E-05	1.0621E-05	1.0621E-05	1.0503E-05	1.0445E-05	1.0604E-05	1.0493E-05	4.2698E-06	4.3160E-06	4.2946E-06	4.2518E-06	0.0000E+00
NO	TKO23d	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1115E-05	1.1059E-05	1.1152E-05	1.1108E-05	1.1157E-05	1.1206E-05	1.1206E-05	1.1073E-05	1.1157E-05	1.1059E-05	1.0961E-05	1.0862E-05	4.4033E-06	4.4673E-06	4.4484E-06	4.4484E-06	0.0000E+00
NO	TKO23d	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2074E-05	1.2036E-05	1.2002E-05	1.1975E-05	1.2051E-05	1.1913E-05	1.1913E-05	1.1872E-05	1.1750E-05	1.1783E-05	1.1668E-05	1.1630E-05	4.7418E-06	4.7262E-06	4.7775E-06	4.7775E-06	0.0000E+00
NO	TKO23d	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2447E-05	1.2386E-05	1.2325E-05	1.2384E-05	1.2295E-05	1.2327E-05	1.2359E-05	1.2271E-05	1.2204E-05	1.2232E-05	1.2137E-05	1.2074E-05	4.9814E-06	4.9450E-06	4.9876E-06	4.9762E-06	0.0000E+00
NO	TKO23e	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2026E-05	1.2081E-05	1.2029E-05	1.1948E-05	1.1979E-05	1.2043E-05	1.2043E-05	1.1867E-05	1.1833E-05	1.1916E-05	1.1853E-05	1.1790E-05	4.8102E-06	4.7714E-06	4.7714E-06	4.8482E-06	0.0000E+00
NO	TKO23e	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1192E-05	1.1328E-05	1.1283E-05	1.1391E-05	1.1285E-05	1.1323E-05	1.1323E-05	1.1323E-05	1.1285E-05	1.1208E-05	1.1283E-05	1.1211E-05	4.5568E-06	4.5925E-06	4.5787E-06	4.5649E-06	0.0000E+00
NO	TKO23e	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1175E-05	1.1319E-05	1.1208E-05	1.1323E-05	1.1361E-05	1.1323E-05	1.1178E-05	1.1178E-05	1.1137E-05	1.1246E-05	1.1131E-05	1.1055E-05	4.5862E-06	4.5568E-06	4.5274E-06	4.5274E-06	0.0000E+00
NO	TKO23e	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0420E-05	1.0365E-05	1.0457E-05	1.0596E-05	1.0468E-05	1.0468E-05	1.0468E-05	1.0518E-05	1.0468E-05	1.0596E-05	1.0411E-05	1.0507E-05	4.2982E-06	4.2447E-06	4.2269E-06	4.2092E-06	0.0000E+00
NO	TKO23e	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0226E-05	1.0365E-05	1.0271E-05	1.0321E-05	1.0370E-05	1.0419E-05	1.0419E-05	1.0236E-05	1.0132E-05	1.0222E-05	1.0124E-05	1.0025E-05	4.1833E-06	4.1265E-06	4.1076E-06	4.0887E-06	0.0000E+00
NO	TKO23e	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7133E-06	9.6593E-06	9.5598E-06	9.6777E-06	9.6777E-06	9.7958E-06	9.7368E-06	9.7368E-06	9.7368E-06	9.6777E-06	9.6189E-06	9.7148E-06	3.9742E-06	3.8834E-06	3.8606E-06	3.8379E-06	0.0000E+00
NO	TKO23e	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5008E-06	9.5598E-06	9.7368E-06	9.6559E-06	9.7185E-06	9.7185E-06	9.7185E-06	9.7185E-06	9.6559E-06	9.5309E-06	9.7368E-06	9.6189E-06	3.9108E-06	3.9515E-06	3.9515E-06	3.9288E-06	0.0000E+00
NO	TKO23e	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6593E-06	9.6189E-06	9.8547E-06	9.7810E-06	9.8436E-06	9.7810E-06	9.7185E-06	9.7185E-06	9.6559E-06	9.7958E-06	9.6189E-06	9.4419E-06	3.8626E-06	3.9288E-06	3.9061E-06	3.8834E-06	0.0000E+00
NO	TKO23e	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0616E-05	1.0602E-05	1.0548E-05	1.0715E-05	1.0621E-05	1.0621E-05	1.0621E-05	1.0621E-05	1.0503E-05	1.0445E-05	1.0604E-05	1.0493E-05	4.2698E-06	4.3160E-06	4.2946E-06	4.2518E-06	0.0000E+00
NO	TKO23e	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1115E-05	1.1059E-05	1.1152E-05	1.1108E-05	1.1157E-05	1.1206E-05	1.1206E-05	1.1073E-05	1.1157E-05	1.1059E-05	1.0961E-05	1.0862E-05	4.4033E-06	4.4673E-06	4.4484E-06	4.4484E-06	0.0000E+00
NO	TKO23e	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2074E-05	1.2036E-05	1.2002E-05	1.1975E-05	1.2051E-05	1.1913E-05	1.1913E-05	1.1872E-05	1.1750E-05	1.1783E-05	1.1668E-05	1.1630E-05	4.7418E-06	4.7262E-06	4.7775E-06	4.7775E-06	0.0000E+00
NO	TKO23e	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2447E-05	1.2386E-05	1.2325E-05	1.2384E-05	1.2295E-05	1.2327E-05	1.2359E-05	1.2271E-05	1.2204E-05	1.2232E-05	1.2137E-05	1.2074E-05	4.9814E-06	4.9450E-06	4.9876E-06	4.9762E-06	0.0000E+00
NO	TKO23f	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2026E-05	1.2081E-05	1.2029E-05	1.1948E-05	1.1979E-05	1.2043E-05	1.2043E-05	1.1867E-05	1.1833E-05	1.1916E-05	1.1853E-05	1.1790E-05	4.8102E-06	4.7714E-06	4.7714E-06	4.8482E-06	0.0000E+00
NO	TKO23f	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1192E-05	1.1328E-05	1.1283E-05	1.1391E-05	1.1285E-05	1.1323E-05	1.1323E-05	1.1323E-05	1.1285E-05	1.1208E-05	1.1283E-05	1.1211E-05	4.5568E-06	4.5925E-06	4.5787E-06	4.5649E-06	0.0000E+00
NO	TKO23f	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1175E-05	1.1319E-05	1.1208E-05	1.1323E-05	1.1361E-05	1.1323E-05	1.1178E-05	1.1178E-05	1.1137E-05	1.1246E-05	1.1131E-05	1.1055E-05	4.5862E-06	4.5568E-06	4.5274E-06	4.5274E-06	0.0000E+00
NO	TKO23f	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0420E-05	1.0365E-05	1.0457E-05	1.0596E-05	1.0468E-05	1.0468E-05	1.0468E-05	1.0518E-05	1.0468E-05	1.0596E-05	1.0411E-05	1.0507E-05	4.2982E-06	4.2447E-06	4.2269E-06	4.2092E-06	0.0000E+00
NO	TKO23f	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0226E-05	1.0365E-05	1.0271E-05	1.0321E-05	1.0370E-05	1.0419E-05	1.0419E-05	1.0236E-05	1.0132E-05	1.0222E-05	1.0124E-05	1.0025E-05	4.1833E-06	4.1265E-06	4.1076E-06	4.0887E-06	0.0000E+00
NO	TKO23f	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7133E-06	9.6593E-06	9.5598E-06	9.6777E-06	9.6777E-06	9.7958E-06	9.7368E-06	9.7368E-06	9.7368E-06	9.6777E-06	9.6189E-06	9.7148E-06	3.9742E-06	3.8834E-06	3.8606E-06	3.8379E-06	0.0000E+00
NO	TKO23f	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5008E-06	9.5598E-06	9.7368E-06	9.6559E-06	9.7185E-06	9.7185E-06	9.7185E-06	9.7185E-06	9.6559E-06	9.5309E-06	9.7368E-06	9.6189E-06	3.9108E-06	3.9515E-06	3.9515E-06	3.9288E-06	0.0000E+00
NO	TKO23f	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6593E-06	9.6189E-06	9.8547E-06	9.7810E-06	9.8436E-06	9.7810E-06	9.7185E-06	9.7185E-06	9.6559E-06	9.7958E-06	9.6189E-06	9.4419E-06	3.8626E-06	3.9288E-06	3.9061E-06	3.8834E-06	0.0000E+00
NO	TKO23f	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0616E-05	1.0602E-05	1.0548E-05	1.0715E-05	1.0621E-05	1.0621E-05	1.0621E-05	1.0621E-05	1.0503E-05	1.0445E-05	1.0604E-05	1.0493E-05	4.2698E-06	4.3160E-06	4.2946E-06	4.2518E-06	0.0000E+00
NO	TKO23f	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1115E-05	1.1059E-05	1.1152E-05	1.1108E-05	1.1157E-05	1.1206E-05	1.1206E-05	1.1073E-05	1.1157E-05	1.1059E-05	1.0961E-05	1.0862E-05	4.4033E-06	4.4673E-06	4.4484E-06	4.4484E-06	0.0000E+00
NO	TKO23f	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2074E-05	1.2036E-05	1.2002E-05	1.1975E-05	1.2051E-05	1.1913E-05	1.1913E-05	1.1872E-05	1.1750E-05	1.1783E-05	1.1668E-05	1.1630E-05	4.7418E-06	4.7262E-06	4.7775E-06	4.7775E-06	0.0000E+00
NO	TKO23f	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2447E-05	1.2386E-05	1.2325E-05	1.2384E-05	1.2295E-05	1.2327E-05	1.2359E-05	1.2271E-05	1.2204E-05	1.2232E-05	1.2137E-05	1.2074E-05	4.9814E-06	4.9450E-06	4.9876E-06	4.9762E-06	0.0000E+00
NO	TKO23g	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2026E-05	1.2081E-05	1.2029E-05	1.1948E-05	1.1979E-05	1.2043E-05	1.2043E-05	1.1867E-05	1.1833E-05	1.1916E-05	1.1853E-05	1.1790E-05	4.8102E-06	4.7714E-06	4.7714E-06	4.8482E-06	0.0000E+00
NO	TKO23g	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1192E-05	1.1328E-05	1.1283E-05	1.1391E-05	1.1285E-05	1.1323E-05	1.1323E-05	1.1323E-05	1.1285E-05	1.1208E-05	1.1283E-05	1.1211E-05	4.5568E-06	4.5925E-06	4.5787E-06	4.5649E-06	0.0000E+00
NO	TKO23g	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1175E-05	1.1319E-05	1.1208E-05	1.1323E-05	1.1361E-05	1.1323E-05	1.1178E-05	1.1178E-05	1.1137E-05	1.1246E-05	1.1131E-05	1.1055E-05	4.5862E-06	4.5568E-06	4.5274E-06	4.5274E-06	0.0000E+00
NO	TKO23g	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0420E-05	1.0365E-05	1.0457E-05	1.0596E-05	1.0468E-05	1.0468E-05	1.0468E-05	1.0518E-05	1.0468E-05	1.0596E-05	1.0411E-05	1.0507E-05	4.2982E-06	4.2447E-06	4.2269E-06	4.2092E-06	0.0000E+00
NO	TKO23g	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0226E-05	1.0365E-05	1.0271E-05	1.0321E-05	1.0370E-05	1.0419E-05	1.0419E-05	1.0236E-05	1.0132E-05	1.0222E-05	1.0124E-05	1.0025E-05	4.1833E-06	4.1265E-06	4.1076E-06	4.0887E-06	0.0000E+00
NO	TKO23g	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.7133E-06	9.6593E-06	9.5598E-06	9.6777E-06	9.6777E-06	9.7958E-06	9.7368E-06	9.7368E-06	9.7368E-06	9.6777E-06	9.6189E-06	9.7148E-06	3.9742E-06	3.8834E-06	3.8606E-06	3.8379E-06	0.0000E+00
NO	TKO23g	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5008E-06	9.5598E-06	9.7368E-06	9.6559E-06	9.7185E-06	9.7185E-06	9.7185E-06	9.7185E-06	9.6559E-06	9.5309E-06	9.7368E-06	9.6189E-06	3.9108E-06	3.9515E-06	3.9515E-06	3.9288E-06	0.0000E+00
NO	TKO23g	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6593E-06	9.6189E-06	9.8547E-06	9.7810E-06	9.8436E-06	9.7810E-06	9.7185E-06	9.7185E-06	9.6559E-06	9.7958E-06	9.6189E-06	9.4419E-06	3.8626E-06	3.9288E-06	3.9061E-06	3.8834E-06	0.0000E+00
NO	TKO23g	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0616E-05	1.0602E-05	1.0548E-05	1.0715E-05	1.0621E-05	1.0621E-05	1.0621E-05	1.0621E-05	1.0503E-05	1.0445E-05	1.0604E-05	1.0493E-05	4.2698E-06	4.3160E-06	4.2946E-06	4.2518E-06	0.0000E+00
NO	TKO23g	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1115E-05	1.1059E-05	1.1152E-05	1.1108E-05	1.1157E-05	1.1206E-05	1.1206E-05	1.1073E-05	1.1157E-05	1.1059E-05	1.0961E-05	1.0862E-05	4.4033E-06	4.4673E-06	4.4484E-06	4.4484E-06	0.0000E+00
NO	TKO23g	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2074E-05	1.2036E-05	1.2002E-05	1.1975E-05	1.2051E-05	1.1913E-05	1.1913E-05	1.1872E-05	1.1750E-05	1.1783E-05	1.1668E-05	1.1630E-05	4.7418E-06	4.7262E-06	4.7775E-06	4.7775E-06	0.0000E+00
NO	TKO23g	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2447E-05	1.2386E-05	1.2325E-05	1.2384E-05	1.2295E-05	1.2327E-05	1.2359E-05	1.2271E-05	1.2204E-05	1.2232E-05	1.2137E-05	1.2074E-05	4.9814E-06	4.9450E-06	4.9876E-06	4.9762E-06	0.0000E+00
NO	TKO23h	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1942E-05	1.1998E-05	1.2026E-05	1.1910E-05	1.1940E-05	1.1940E-05	1.1790E-05	1.1885E-05	1.1853E-05	1.1821E-05	1.1790E-05	1.1758E-05	4.7973E-06	4.7585E-06	4.7585E-06	4.8360E-06	0.0000E+00
NO	TKO23h	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1316E-05	1.1192E-05	1.1260E-05	1.1328E-05	1.1175E-05	1.1211E-05	1.1211E-05	1.1131E-05	1.1093E-05	1.1055E-05	1.1211E-05	1.1139E-05	4.5422E-06	4.5649E-06	4.5649E-06	4.5512E-06	0.0000E+00
NO	TKO23h	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1260E-05	1.1139E-05	1.1211E-05	1.1247E-05	1.1247E-05	1.1247E-05	1.1283E-05	1.1170E-05	1.1170E-05	1.1093E-05	1.1016E-05	1.0978E-05	4.4752E-06	4.5127E-06	4.5127E-06	4.5127E-06	0.0000E+00
NO	TKO23h	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0484E-05	1.0376E-05	1.0420E-05	1.0507E-05	1.0318E-05	1.0365E-05	1.0593E-05	1.0457E-05	1.0411E-05	1.0365E-05	1.0272E-05	1.0420E-05	4.1644E-06	4.2092E-06	4.1914E-06	4.1914E-06	0.0000E+00
NO	TKO23h	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0289E-05	1.0133E-05	1.0226E-05	1.0272E-05	1.0272E-05	1.0318E-05	1.0318E-05	1.0173E-05	1.0124E-05	1.0074E-05	9.9762E-06	9.9269E-06	4.1455E-06	4.0887E-06	4.0697E-06	4.0697E-06	0.0000E+00
NO	TKO23h	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5565E-06	9.4371E-06	9.5482E-06	9.5482E-06	9.6038E-06	9.6593E-06	9.6593E-06	9.4419E-06	9.4419E-06	9.4419E-06	9.3829E-06	9.6038E-06	3.9288E-06	3.8379E-06	3.8152E-06	3.8152E-06	0.0000E+00
NO	TKO23h	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.5482E-06	9.6038E-06	9.4419E-06	9.5598E-06	9.5598E-06	9.5598E-06	9.5598E-06	9.3432E-06	9.5598E-06	9.5008E-06	9.5008E-06	9.4419E-06	3.8385E-06	3.9061E-06	3.9061E-06	3.8834E-06	0.0000E+00
NO	TKO23h	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.4927E-06	9.6593E-06	9.5008E-06	9.6777E-06	9.6777E-06	9.6777E-06	9.6189E-06	9.6777E-06	9.5598E-06	9.5008E-06	9.4419E-06	9.3241E-06	3.8144E-06	3.8834E-06	3.8606E-06	3.8606E-06	0.0000E+00
NO	TKO23h	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0468E-05	1.0393E-05	1.0550E-05	1.0602E-05	1.0437E-05	1.0493E-05	1.0437E-05	1.0493E-05	1.0437E-05	1.0437E-05	1.0382E-05	1.0326E-05	4.2243E-06	4.1788E-06	4.2518E-06	4.2305E-06	0.0000E+00
NO	TKO23h	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0985E-05	1.1029E-05	1.0966E-05	1.1013E-05	1.1059E-05	1.1105E-05	1.0911E-05	1.0961E-05	1.0911E-05	1.0862E-05	1.0813E-05	1.0764E-05	4.3630E-06	4.3429E-06	4.4105E-06	4.4295E-06	0.0000E+00
NO	TKO23h	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1979E-05	1.1901E-05	1.1822E-05	1.1894E-05	1.1821E-05	1.1821E-05	1.1783E-05	1.1668E-05	1.1587E-05	1.1668E-05	1.1591E-05	1.1591E-05	4.7262E-06	4.6948E-06	4.6948E-06	4.7628E-06	0.0000E+00
NO	TKO23h	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2370E-05	1.2303E-05	1.2303E-05	1.2206E-05	1.2236E-05	1.2236E-05	1.2265E-05	1.2232E-05	1.2201E-05	1.2137E-05	1.2074E-05	1.2011E-05	4.9135E-06	4.9208E-06	4.9087E-06	4.9087E-06	0.0000E+00
NO2	CVEH14_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9132E-07	4.9323E-07	4.9421E-07	4.9018E-07	4.9122E-07	4.9122E-07	4.8598E-07	4.8927E-07	4.8816E-07	4.8709E-07	4.8598E-07	4.8487E-07	4.8375E-07	4.8046E-07	4.8046E-07	4.8709E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	CVEH14_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6941E-07	4.6511E-07	4.6743E-07	4.6980E-07	4.6448E-07	4.6573E-07	4.6573E-07	4.6296E-07	4.6160E-07	4.6028E-07	4.6573E-07	4.6323E-07	4.6195E-07	4.6393E-07	4.6393E-07	4.6275E-07	0.0000E+00
NO2	CVEH14_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6743E-07	4.6323E-07	4.6573E-07	4.6698E-07	4.6698E-07	4.6698E-07	4.6823E-07	4.6427E-07	4.6427E-07	4.6160E-07	4.5893E-07	4.5757E-07	4.5625E-07	4.5945E-07	4.5945E-07	4.5945E-07	0.0000E+00
NO2	CVEH14_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4032E-07	4.3657E-07	4.3806E-07	4.4112E-07	4.3455E-07	4.3615E-07	4.4417E-07	4.3938E-07	4.3778E-07	4.3615E-07	4.3292E-07	4.3806E-07	4.2969E-07	4.3351E-07	4.3198E-07	4.3198E-07	0.0000E+00
NO2	CVEH14_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3351E-07	4.2806E-07	4.3129E-07	4.3292E-07	4.3292E-07	4.3455E-07	4.3455E-07	4.2945E-07	4.2775E-07	4.2601E-07	4.2257E-07	4.2084E-07	4.2806E-07	4.2320E-07	4.2160E-07	4.2160E-07	0.0000E+00
NO2	CVEH14_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0789E-07	4.0372E-07	4.0761E-07	4.0761E-07	4.0955E-07	4.1150E-07	4.1150E-07	4.0389E-07	4.0389E-07	4.0389E-07	4.0184E-07	4.0955E-07	4.0955E-07	4.0177E-07	3.9983E-07	3.9983E-07	0.0000E+00
NO2	CVEH14_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0761E-07	4.0955E-07	4.0389E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0046E-07	4.0802E-07	4.0598E-07	4.0598E-07	4.0389E-07	4.0184E-07	4.0761E-07	4.0761E-07	4.0566E-07	0.0000E+00
NO2	CVEH14_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0566E-07	4.1150E-07	4.0598E-07	4.1216E-07	4.1216E-07	4.1216E-07	4.1007E-07	4.1216E-07	4.0802E-07	4.0598E-07	4.0389E-07	3.9976E-07	3.9976E-07	4.0566E-07	4.0372E-07	4.0372E-07	0.0000E+00
NO2	CVEH14_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3976E-07	4.3716E-07	4.4264E-07	4.4448E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.3868E-07	4.3674E-07	4.3480E-07	4.3480E-07	4.3091E-07	4.3716E-07	4.3532E-07	0.0000E+00
NO2	CVEH14_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5785E-07	4.5934E-07	4.5719E-07	4.5879E-07	4.6042E-07	4.6205E-07	4.5525E-07	4.5698E-07	4.5525E-07	4.5355E-07	4.5181E-07	4.5011E-07	4.4667E-07	4.4493E-07	4.5073E-07	4.5233E-07	0.0000E+00
NO2	CVEH14_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9261E-07	4.8983E-07	4.8709E-07	4.8962E-07	4.8709E-07	4.8709E-07	4.8573E-07	4.8174E-07	4.7886E-07	4.8171E-07	4.7903E-07	4.7903E-07	4.7768E-07	4.7500E-07	4.7500E-07	4.8080E-07	0.0000E+00
NO2	CVEH14_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0625E-07	5.0389E-07	5.0389E-07	5.0052E-07	5.0157E-07	5.0157E-07	5.0261E-07	5.0143E-07	5.0032E-07	4.9813E-07	4.9591E-07	4.9372E-07	4.9372E-07	4.9431E-07	4.9327E-07	4.9327E-07	0.0000E+00
NO2	CVEH14_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9132E-07	4.9323E-07	4.9421E-07	4.9018E-07	4.9122E-07	4.9122E-07	4.8598E-07	4.8927E-07	4.8816E-07	4.8709E-07	4.8598E-07	4.8487E-07	4.8375E-07	4.8046E-07	4.8046E-07	4.8709E-07	0.0000E+00
NO2	CVEH14_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6941E-07	4.6511E-07	4.6743E-07	4.6980E-07	4.6448E-07	4.6573E-07	4.6573E-07	4.6296E-07	4.6160E-07	4.6028E-07	4.6573E-07	4.6323E-07	4.6195E-07	4.6393E-07	4.6393E-07	4.6275E-07	0.0000E+00
NO2	CVEH14_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6743E-07	4.6323E-07	4.6573E-07	4.6698E-07	4.6698E-07	4.6698E-07	4.6823E-07	4.6427E-07	4.6427E-07	4.6160E-07	4.5893E-07	4.5757E-07	4.5625E-07	4.5945E-07	4.5945E-07	4.5945E-07	0.0000E+00
NO2	CVEH14_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4032E-07	4.3657E-07	4.3806E-07	4.4112E-07	4.3455E-07	4.3615E-07	4.4417E-07	4.3938E-07	4.3778E-07	4.3615E-07	4.3292E-07	4.3806E-07	4.2969E-07	4.3351E-07	4.3198E-07	4.3198E-07	0.0000E+00
NO2	CVEH14_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3351E-07	4.2806E-07	4.3129E-07	4.3292E-07	4.3292E-07	4.3455E-07	4.3455E-07	4.2945E-07	4.2775E-07	4.2601E-07	4.2257E-07	4.2084E-07	4.2806E-07	4.2320E-07	4.2160E-07	4.2160E-07	0.0000E+00
NO2	CVEH14_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0789E-07	4.0372E-07	4.0761E-07	4.0761E-07	4.0955E-07	4.1150E-07	4.1150E-07	4.0389E-07	4.0389E-07	4.0389E-07	4.0184E-07	4.0955E-07	4.0955E-07	4.0177E-07	3.9983E-07	3.9983E-07	0.0000E+00
NO2	CVEH14_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0761E-07	4.0955E-07	4.0389E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0046E-07	4.0802E-07	4.0598E-07	4.0598E-07	4.0389E-07	4.0184E-07	4.0761E-07	4.0761E-07	4.0566E-07	0.0000E+00
NO2	CVEH14_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0566E-07	4.1150E-07	4.0598E-07	4.1216E-07	4.1216E-07	4.1216E-07	4.1007E-07	4.1216E-07	4.0802E-07	4.0598E-07	4.0389E-07	3.9976E-07	3.9976E-07	4.0566E-07	4.0372E-07	4.0372E-07	0.0000E+00
NO2	CVEH14_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3976E-07	4.3716E-07	4.4264E-07	4.4448E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.3868E-07	4.3674E-07	4.3480E-07	4.3480E-07	4.3091E-07	4.3716E-07	4.3532E-07	0.0000E+00
NO2	CVEH14_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5785E-07	4.5934E-07	4.5719E-07	4.5879E-07	4.6042E-07	4.6205E-07	4.5525E-07	4.5698E-07	4.5525E-07	4.5355E-07	4.5181E-07	4.5011E-07	4.4667E-07	4.4493E-07	4.5073E-07	4.5233E-07	0.0000E+00
NO2	CVEH14_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9261E-07	4.8983E-07	4.8709E-07	4.8962E-07	4.8709E-07	4.8709E-07	4.8573E-07	4.8174E-07	4.7886E-07	4.8171E-07	4.7903E-07	4.7903E-07	4.7768E-07	4.7500E-07	4.7500E-07	4.8080E-07	0.0000E+00
NO2	CVEH14_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0625E-07	5.0389E-07	5.0389E-07	5.0052E-07	5.0157E-07	5.0157E-07	5.0261E-07	5.0143E-07	5.0032E-07	4.9813E-07	4.9591E-07	4.9372E-07	4.9372E-07	4.9431E-07	4.9327E-07	4.9327E-07	0.0000E+00
NO2	CVEH14_3	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9132E-07	4.9323E-07	4.9421E-07	4.9018E-07	4.9122E-07	4.9122E-07	4.8598E-07	4.8927E-07	4.8816E-07	4.8709E-07	4.8598E-07	4.8487E-07	4.8375E-07	4.8046E-07	4.8046E-07	4.8709E-07	0.0000E+00
NO2	CVEH14_3	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6941E-07	4.6511E-07	4.6743E-07	4.6980E-07	4.6448E-07	4.6573E-07	4.6573E-07	4.6296E-07	4.6160E-07	4.6028E-07	4.6573E-07	4.6323E-07	4.6195E-07	4.6393E-07	4.6393E-07	4.6275E-07	0.0000E+00
NO2	CVEH14_3	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6743E-07	4.6323E-07	4.6573E-07	4.6698E-07	4.6698E-07	4.6698E-07	4.6823E-07	4.6427E-07	4.6427E-07	4.6160E-07	4.5893E-07	4.5757E-07	4.5625E-07	4.5945E-07	4.5945E-07	4.5945E-07	0.0000E+00
NO2	CVEH14_3	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4032E-07	4.3657E-07	4.3806E-07	4.4112E-07	4.3455E-07	4.3615E-07	4.4417E-07	4.3938E-07	4.3778E-07	4.3615E-07	4.3292E-07	4.3806E-07	4.2969E-07	4.3351E-07	4.3198E-07	4.3198E-07	0.0000E+00
NO2	CVEH14_3	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3351E-07	4.2806E-07	4.3129E-07	4.3292E-07	4.3292E-07	4.3455E-07	4.3455E-07	4.2945E-07	4.2775E-07	4.2601E-07	4.2257E-07	4.2084E-07	4.2806E-07	4.2320E-07	4.2160E-07	4.2160E-07	0.0000E+00
NO2	CVEH14_3	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0789E-07	4.0372E-07	4.0761E-07	4.0761E-07	4.0955E-07	4.1150E-07	4.1150E-07	4.0389E-07	4.0389E-07	4.0389E-07	4.0184E-07	4.0955E-07	4.0955E-07	4.0177E-07	3.9983E-07	3.9983E-07	0.0000E+00
NO2	CVEH14_3	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0761E-07	4.0955E-07	4.0389E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0046E-07	4.0802E-07	4.0598E-07	4.0598E-07	4.0389E-07	4.0184E-07	4.0761E-07	4.0761E-07	4.0566E-07	0.0000E+00
NO2	CVEH14_3	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0566E-07	4.1150E-07	4.0598E-07	4.1216E-07	4.1216E-07	4.1216E-07	4.1007E-07	4.1216E-07	4.0802E-07	4.0598E-07	4.0389E-07	3.9976E-07	3.9976E-07	4.0566E-07	4.0372E-07	4.0372E-07	0.0000E+00
NO2	CVEH14_3	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3976E-07	4.3716E-07	4.4264E-07	4.4448E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.3868E-07	4.3674E-07	4.3480E-07	4.3480E-07	4.3091E-07	4.3716E-07	4.3532E-07	0.0000E+00
NO2	CVEH14_3	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5785E-07	4.5934E-07	4.5719E-07	4.5879E-07	4.6042E-07	4.6205E-07	4.5525E-07	4.5698E-07	4.5525E-07	4.5355E-07	4.5181E-07	4.5011E-07	4.4667E-07	4.4493E-07	4.5073E-07	4.5233E-07	0.0000E+00
NO2	CVEH14_3	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9261E-07	4.8983E-07	4.8709E-07	4.8962E-07	4.8709E-07	4.8709E-07	4.8573E-07	4.8174E-07	4.7886E-07	4.8171E-07	4.7903E-07	4.7903E-07	4.7768E-07	4.7500E-07	4.7500E-07	4.8080E-07	0.0000E+00
NO2	CVEH14_3	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0625E-07	5.0389E-07	5.0389E-07	5.0052E-07	5.0157E-07	5.0157E-07	5.0261E-07	5.0143E-07	5.0032E-07	4.9813E-07	4.9591E-07	4.9372E-07	4.9372E-07	4.9431E-07	4.9327E-07	4.9327E-07	0.0000E+00
NO2	CVEH14_4	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9132E-07	4.9323E-07	4.9421E-07	4.9018E-07	4.9122E-07	4.9122E-07	4.8598E-07	4.8927E-07	4.8816E-07	4.8709E-07	4.8598E-07	4.8487E-07	4.8375E-07	4.8046E-07	4.8046E-07	4.8709E-07	0.0000E+00
NO2	CVEH14_4	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6941E-07	4.6511E-07	4.6743E-07	4.6980E-07	4.6448E-07	4.6573E-07	4.6573E-07	4.6296E-07	4.6160E-07	4.6028E-07	4.6573E-07	4.6323E-07	4.6195E-07	4.6393E-07	4.6393E-07	4.6275E-07	0.0000E+00
NO2	CVEH14_4	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6743E-07	4.6323E-07	4.6573E-07	4.6698E-07	4.6698E-07	4.6698E-07	4.6823E-07	4.6427E-07	4.6427E-07	4.6160E-07	4.5893E-07	4.5757E-07	4.5625E-07	4.5945E-07	4.5945E-07	4.5945E-07	0.0000E+00
NO2	CVEH14_4	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4032E-07	4.3657E-07	4.3806E-07	4.4112E-07	4.3455E-07	4.3615E-07	4.4417E-07	4.3938E-07	4.3778E-07	4.3615E-07	4.3292E-07	4.3806E-07	4.2969E-07	4.3351E-07	4.3198E-07	4.3198E-07	0.0000E+00
NO2	CVEH14_4	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3351E-07	4.2806E-07	4.3129E-07	4.3292E-07	4.3292E-07	4.3455E-07	4.3455E-07	4.2945E-07	4.2775E-07	4.2601E-07	4.2257E-07	4.2084E-07	4.2806E-07	4.2320E-07	4.2160E-07	4.2160E-07	0.0000E+00
NO2	CVEH14_4	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0789E-07	4.0372E-07	4.0761E-07	4.0761E-07	4.0955E-07	4.1150E-07	4.1150E-07	4.0389E-07	4.0389E-07	4.0389E-07	4.0184E-07	4.0955E-07	4.0955E-07	4.0177E-07	3.9983E-07	3.9983E-07	0.0000E+00
NO2	CVEH14_4	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0761E-07	4.0955E-07	4.0389E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0046E-07	4.0802E-07	4.0598E-07	4.0598E-07	4.0389E-07	4.0184E-07	4.0761E-07	4.0761E-07	4.0566E-07	0.0000E+00
NO2	CVEH14_4	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0566E-07	4.1150E-07	4.0598E-07	4.1216E-07	4.1216E-07	4.1216E-07	4.1007E-07	4.1216E-07	4.0802E-07	4.0598E-07	4.0389E-07	3.9976E-07	3.9976E-07	4.0566E-07	4.0372E-07	4.0372E-07	0.0000E+00
NO2	CVEH14_4	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3976E-07	4.3716E-07	4.4264E-07	4.4448E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.3868E-07	4.3674E-07	4.3480E-07	4.3480E-07	4.3091E-07	4.3716E-07	4.3532E-07	0.0000E+00
NO2	CVEH14_4	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5785E-07	4.5934E-07	4.5719E-07	4.5879E-07	4.6042E-07	4.6205E-07	4.5525E-07	4.5698E-07	4.5525E-07	4.5355E-07	4.5181E-07	4.5011E-07	4.4667E-07	4.4493E-07	4.5073E-07	4.5233E-07	0.0000E+00
NO2	CVEH14_4	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9261E-07	4.8983E-07	4.8709E-07	4.8962E-07	4.8709E-07	4.8709E-07	4.8573E-07	4.8174E-07	4.7886E-07	4.8171E-07	4.7903E-07	4.7903E-07	4.7768E-07	4.7500E-07	4.7500E-07	4.8080E-07	0.0000E+00
NO2	CVEH14_4	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0625E-07	5.0389E-07	5.0389E-07	5.0052E-07	5.0157E-07	5.0157E-07	5.0261E-07	5.0143E-07	5.0032E-07	4.9813E-07	4.9591E-07	4.9372E-07	4.9372E-07	4.9431E-07	4.9327E-07	4.9327E-07	0.0000E+00
NO2	CVEH14_5	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9132E-07	4.9323E-07	4.9421E-07	4.9018E-07	4.9122E-07	4.9122E-07	4.8598E-07	4.8927E-07	4.8816E-07	4.8709E-07	4.8598E-07	4.8487E-07	4.8375E-07	4.8046E-07	4.8046E-07	4.8709E-07	0.0000E+00
NO2	CVEH14_5	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6941E-07	4.6511E-07	4.6743E-07	4.6980E-07	4.6448E-07	4.6573E-07	4.6573E-07	4.6296E-07	4.6160E-07	4.6028E-07	4.6573E-07	4.6323E-07	4.6195E-07	4.6393E-07	4.6393E-07	4.6275E-07	0.0000E+00
NO2	CVEH14_5	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6743E-07	4.6323E-07	4.6573E-07	4.6698E-07	4.6698E-07	4.6698E-07	4.6823E-07	4.6427E-07	4.6427E-07	4.6160E-07	4.5893E-07	4.5757E-07	4.5625E-07	4.5945E-07	4.5945E-07	4.5945E-07	0.0000E+00
NO2	CVEH14_5	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4032E-07	4.3657E-07	4.3806E-07	4.4112E-07	4.3455E-07	4.3615E-07	4.4417E-07	4.3938E-07	4.3778E-07	4.3615E-07	4.3292E-07	4.3806E-07	4.2969E-07	4.3351E-07	4.3198E-07	4.3198E-07	0.0000E+00
NO2	CVEH14_5	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3351E-07	4.2806E-07	4.3129E-07	4.3292E-07	4.3292E-07	4.3455E-07	4.3455E-07	4.2945E-07	4.2775E-07	4.2601E-07	4.2257E-07	4.2084E-07	4.2806E-07	4.2320E-07	4.2160E-07	4.2160E-07	0.0000E+00
NO2	CVEH14_5	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0789E-07	4.0372E-07	4.0761E-07	4.0761E-07	4.0955E-07	4.1150E-07	4.1150E-07	4.0389E-07	4.0389E-07	4.0389E-07	4.0184E-07	4.0955E-07	4.0955E-07	4.0177E-07	3.9983E-07	3.9983E-07	0.0000E+00
NO2	CVEH14_5	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0761E-07	4.0955E-07	4.0389E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0046E-07	4.0802E-07	4.0598E-07	4.0598E-07	4.0389E-07	4.0184E-07	4.0761E-07	4.0761E-07	4.0566E-07	0.0000E+00
NO2	CVEH14_5	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0566E-07	4.1150E-07	4.0598E-07	4.1216E-07	4.1216E-07	4.1216E-07	4.1007E-07	4.1216E-07	4.0802E-07	4.0598E-07	4.0389E-07	3.9976E-07	3.9976E-07	4.0566E-07	4.0372E-07	4.0372E-07	0.0000E+00
NO2	CVEH14_5	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3976E-07	4.3716E-07	4.4264E-07	4.4448E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.3868E-07	4.3674E-07	4.3480E-07	4.3480E-07	4.3091E-07	4.3716E-07	4.3532E-07	0.0000E+00
NO2	CVEH14_5	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5785E-07	4.5934E-07	4.5719E-07	4.5879E-07	4.6042E-07	4.6205E-07	4.5525E-07	4.5698E-07	4.5525E-07	4.5355E-07	4.5181E-07	4.5011E-07	4.4667E-07	4.4493E-07	4.5073E-07	4.5233E-07	0.0000E+00
NO2	CVEH14_5	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9261E-07	4.8983E-07	4.8709E-07	4.8962E-07	4.8709E-07	4.8709E-07	4.8573E-07	4.8174E-07	4.7886E-07	4.8171E-07	4.7903E-07	4.7903E-07	4.7768E-07	4.7500E-07	4.7500E-07	4.8080E-07	0.0000E+00
NO2	CVEH14_5	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0625E-07	5.0389E-07	5.0389E-07	5.0052E-07	5.0157E-07	5.0157E-07	5.0261E-07	5.0143E-07	5.0032E-07	4.9813E-07	4.9591E-07	4.9372E-07	4.9372E-07	4.9431E-07	4.9327E-07	4.9327E-07	0.0000E+00
NO2	CVEH14_6	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9132E-07	4.9323E-07	4.9421E-07	4.9018E-07	4.9122E-07	4.9122E-07	4.8598E-07	4.8927E-07	4.8816E-07	4.8709E-07	4.8598E-07	4.8487E-07	4.8375E-07	4.8046E-07	4.8046E-07	4.8709E-07	0.0000E+00
NO2	CVEH14_6	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6941E-07	4.6511E-07	4.6743E-07	4.6980E-07	4.6448E-07	4.6573E-07	4.6573E-07	4.6296E-07	4.6160E-07	4.6028E-07	4.6573E-07	4.6323E-07	4.6195E-07	4.6393E-07	4.6393E-07	4.6275E-07	0.0000E+00
NO2	CVEH14_6	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6743E-07	4.6323E-07	4.6573E-07	4.6698E-07	4.6698E-07	4.6698E-07	4.6823E-07	4.6427E-07	4.6427E-07	4.6160E-07	4.5893E-07	4.5757E-07	4.5625E-07	4.5945E-07	4.5945E-07	4.5945E-07	0.0000E+00
NO2	CVEH14_6	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4032E-07	4.3657E-07	4.3806E-07	4.4112E-07	4.3455E-07	4.3615E-07	4.4417E-07	4.3938E-07	4.3778E-07	4.3615E-07	4.3292E-07	4.3806E-07	4.2969E-07	4.3351E-07	4.3198E-07	4.3198E-07	0.0000E+00
NO2	CVEH14_6	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3351E-07	4.2806E-07	4.3129E-07	4.3292E-07	4.3292E-07	4.3455E-07	4.3455E-07	4.2945E-07	4.2775E-07	4.2601E-07	4.2257E-07	4.2084E-07	4.2806E-07	4.2320E-07	4.2160E-07	4.2160E-07	0.0000E+00
NO2	CVEH14_6	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0789E-07	4.0372E-07	4.0761E-07	4.0761E-07	4.0955E-07	4.1150E-07	4.1150E-07	4.0389E-07	4.0389E-07	4.0389E-07	4.0184E-07	4.0955E-07	4.0955E-07	4.0177E-07	3.9983E-07	3.9983E-07	0.0000E+00
NO2	CVEH14_6	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0761E-07	4.0955E-07	4.0389E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0046E-07	4.0802E-07	4.0598E-07	4.0598E-07	4.0389E-07	4.0184E-07	4.0761E-07	4.0761E-07	4.0566E-07	0.0000E+00
NO2	CVEH14_6	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0566E-07	4.1150E-07	4.0598E-07	4.1216E-07	4.1216E-07	4.1216E-07	4.1007E-07	4.1216E-07	4.0802E-07	4.0598E-07	4.0389E-07	3.9976E-07	3.9976E-07	4.0566E-07	4.0372E-07	4.0372E-07	0.0000E+00
NO2	CVEH14_6	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3976E-07	4.3716E-07	4.4264E-07	4.4448E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.3868E-07	4.3674E-07	4.3480E-07	4.3480E-07	4.3091E-07	4.3716E-07	4.3532E-07	0.0000E+00
NO2	CVEH14_6	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5785E-07	4.5934E-07	4.5719E-07	4.5879E-07	4.6042E-07	4.6205E-07	4.5525E-07	4.5698E-07	4.5525E-07	4.5355E-07	4.5181E-07	4.5011E-07	4.4667E-07	4.4493E-07	4.5073E-07	4.5233E-07	0.0000E+00
NO2	CVEH14_6	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9261E-07	4.8983E-07	4.8709E-07	4.8962E-07	4.8709E-07	4.8709E-07	4.8573E-07	4.8174E-07	4.7886E-07	4.8171E-07	4.7903E-07	4.7903E-07	4.7768E-07	4.7500E-07	4.7500E-07	4.8080E-07	0.0000E+00
NO2	CVEH14_6	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0625E-07	5.0389E-07	5.0389E-07	5.0052E-07	5.0157E-07	5.0157E-07	5.0261E-07	5.0143E-07	5.0032E-07	4.9813E-07	4.9591E-07	4.9372E-07	4.9372E-07	4.9431E-07	4.9327E-07	4.9327E-07	0.0000E+00
NO2	CVEH14_7	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.8265E-07	9.8647E-07	9.8841E-07	9.8036E-07	9.8244E-07	9.8244E-07	9.7195E-07	9.7855E-07	9.7633E-07	9.7417E-07	9.7195E-07	9.6973E-07	9.6751E-07	9.6091E-07	9.6091E-07	9.7417E-07	0.0000E+00
NO2	CVEH14_7	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3883E-07	9.3022E-07	9.3487E-07	9.3959E-07	9.2897E-07	9.3147E-07	9.3147E-07	9.2591E-07	9.2320E-07	9.2056E-07	9.3147E-07	9.2647E-07	9.2390E-07	9.2786E-07	9.2786E-07	9.2549E-07	0.0000E+00
NO2	CVEH14_7	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.3487E-07	9.2647E-07	9.3147E-07	9.3397E-07	9.3397E-07	9.3397E-07	9.3647E-07	9.2855E-07	9.2855E-07	9.2320E-07	9.1786E-07	9.1515E-07	9.1251E-07	9.1890E-07	9.1890E-07	9.1890E-07	0.0000E+00
NO2	CVEH14_7	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8063E-07	8.7313E-07	8.7612E-07	8.8223E-07	8.6911E-07	8.7230E-07	8.8834E-07	8.7876E-07	8.7556E-07	8.7230E-07	8.6584E-07	8.7612E-07	8.5938E-07	8.6702E-07	8.6397E-07	8.6397E-07	0.0000E+00
NO2	CVEH14_7	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.6702E-07	8.5612E-07	8.6258E-07	8.6584E-07	8.6584E-07	8.6911E-07	8.6911E-07	8.5890E-07	8.5549E-07	8.5202E-07	8.4515E-07	8.4167E-07	8.5612E-07	8.4640E-07	8.4320E-07	8.4320E-07	0.0000E+00
NO2	CVEH14_7	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1577E-07	8.0744E-07	8.1522E-07	8.1522E-07	8.1911E-07	8.2299E-07	8.2299E-07	8.0779E-07	8.0779E-07	8.0779E-07	8.0369E-07	8.1911E-07	8.1911E-07	8.0355E-07	7.9966E-07	7.9966E-07	0.0000E+00
NO2	CVEH14_7	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1522E-07	8.1911E-07	8.0779E-07	8.1605E-07	8.1605E-07	8.1605E-07	8.1605E-07	8.0091E-07	8.1605E-07	8.1195E-07	8.1195E-07	8.0779E-07	8.0369E-07	8.1522E-07	8.1522E-07	8.1133E-07	0.0000E+00
NO2	CVEH14_7	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1133E-07	8.2299E-07	8.1195E-07	8.2431E-07	8.2431E-07	8.2431E-07	8.2015E-07	8.2431E-07	8.1605E-07	8.1195E-07	8.0779E-07	7.9952E-07	7.9952E-07	8.1133E-07	8.0744E-07	8.0744E-07	0.0000E+00
NO2	CVEH14_7	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7952E-07	8.7431E-07	8.8529E-07	8.8897E-07	8.7737E-07	8.8126E-07	8.7737E-07	8.8126E-07	8.7737E-07	8.7737E-07	8.7348E-07	8.6959E-07	8.6959E-07	8.6181E-07	8.7431E-07	8.7063E-07	0.0000E+00
NO2	CVEH14_7	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.1570E-07	9.1869E-07	9.1438E-07	9.1758E-07	9.2084E-07	9.2411E-07	9.1049E-07	9.1397E-07	9.1049E-07	9.0709E-07	9.0362E-07	9.0022E-07	8.9334E-07	8.8987E-07	9.0147E-07	9.0466E-07	0.0000E+00
NO2	CVEH14_7	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.8522E-07	9.7966E-07	9.7417E-07	9.7924E-07	9.7417E-07	9.7417E-07	9.7147E-07	9.6348E-07	9.5772E-07	9.6341E-07	9.5806E-07	9.5806E-07	9.5536E-07	9.5001E-07	9.5001E-07	9.6161E-07	0.0000E+00
NO2	CVEH14_7	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0125E-06	1.0078E-06	1.0078E-06	1.0010E-06	1.0031E-06	1.0031E-06	1.0052E-06	1.0029E-06	1.0006E-06	9.9626E-07	9.9181E-07	9.8744E-07	9.8744E-07	9.8862E-07	9.8654E-07	9.8654E-07	0.0000E+00
NO2	CVEH14_8	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9132E-07	4.9323E-07	4.9421E-07	4.9018E-07	4.9122E-07	4.9122E-07	4.8598E-07	4.8927E-07	4.8816E-07	4.8709E-07	4.8598E-07	4.8487E-07	4.8375E-07	4.8046E-07	4.8046E-07	4.8709E-07	0.0000E+00
NO2	CVEH14_8	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6941E-07	4.6511E-07	4.6743E-07	4.6980E-07	4.6448E-07	4.6573E-07	4.6573E-07	4.6296E-07	4.6160E-07	4.6028E-07	4.6573E-07	4.6323E-07	4.6195E-07	4.6393E-07	4.6393E-07	4.6275E-07	0.0000E+00
NO2	CVEH14_8	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.6743E-07	4.6323E-07	4.6573E-07	4.6698E-07	4.6698E-07	4.6698E-07	4.6823E-07	4.6427E-07	4.6427E-07	4.6160E-07	4.5893E-07	4.5757E-07	4.5625E-07	4.5945E-07	4.5945E-07	4.5945E-07	0.0000E+00
NO2	CVEH14_8	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.4032E-07	4.3657E-07	4.3806E-07	4.4112E-07	4.3455E-07	4.3615E-07	4.4417E-07	4.3938E-07	4.3778E-07	4.3615E-07	4.3292E-07	4.3806E-07	4.2969E-07	4.3351E-07	4.3198E-07	4.3198E-07	0.0000E+00
NO2	CVEH14_8	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3351E-07	4.2806E-07	4.3129E-07	4.3292E-07	4.3292E-07	4.3455E-07	4.3455E-07	4.2945E-07	4.2775E-07	4.2601E-07	4.2257E-07	4.2084E-07	4.2806E-07	4.2320E-07	4.2160E-07	4.2160E-07	0.0000E+00
NO2	CVEH14_8	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0789E-07	4.0372E-07	4.0761E-07	4.0761E-07	4.0955E-07	4.1150E-07	4.1150E-07	4.0389E-07	4.0389E-07	4.0389E-07	4.0184E-07	4.0955E-07	4.0955E-07	4.0177E-07	3.9983E-07	3.9983E-07	0.0000E+00
NO2	CVEH14_8	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0761E-07	4.0955E-07	4.0389E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0802E-07	4.0046E-07	4.0802E-07	4.0598E-07	4.0598E-07	4.0389E-07	4.0184E-07	4.0761E-07	4.0761E-07	4.0566E-07	0.0000E+00
NO2	CVEH14_8	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0566E-07	4.1150E-07	4.0598E-07	4.1216E-07	4.1216E-07	4.1216E-07	4.1007E-07	4.1216E-07	4.0802E-07	4.0598E-07	4.0389E-07	3.9976E-07	3.9976E-07	4.0566E-07	4.0372E-07	4.0372E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	CVEH14_8	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.3976E-07	4.3716E-07	4.4264E-07	4.4448E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.4063E-07	4.3868E-07	4.3868E-07	4.3674E-07	4.3480E-07	4.3480E-07	4.3091E-07	4.3716E-07	4.3532E-07	0.0000E+00
NO2	CVEH14_8	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5785E-07	4.5934E-07	4.5719E-07	4.5879E-07	4.6042E-07	4.6205E-07	4.5525E-07	4.5698E-07	4.5525E-07	4.5355E-07	4.5181E-07	4.5011E-07	4.4667E-07	4.4493E-07	4.5073E-07	4.5233E-07	0.0000E+00
NO2	CVEH14_8	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.9261E-07	4.8983E-07	4.8709E-07	4.8962E-07	4.8709E-07	4.8709E-07	4.8573E-07	4.8174E-07	4.7886E-07	4.8171E-07	4.7903E-07	4.7903E-07	4.7768E-07	4.7500E-07	4.7500E-07	4.8080E-07	0.0000E+00
NO2	CVEH14_8	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0625E-07	5.0389E-07	5.0389E-07	5.0052E-07	5.0157E-07	5.0157E-07	5.0261E-07	5.0143E-07	5.0032E-07	4.9813E-07	4.9591E-07	4.9372E-07	4.9372E-07	4.9431E-07	4.9327E-07	4.9327E-07	0.0000E+00
NO2	CVEH15_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5163E-07	8.5494E-07	8.5662E-07	8.4964E-07	8.5145E-07	8.5145E-07	8.4236E-07	8.4808E-07	8.4615E-07	8.4428E-07	8.4236E-07	8.4043E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1365E-07	8.0619E-07	8.1022E-07	8.1431E-07	8.0510E-07	8.0727E-07	8.0727E-07	8.0246E-07	8.0011E-07	7.9782E-07	8.0727E-07	8.0294E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1022E-07	8.0294E-07	8.0727E-07	8.0944E-07	8.0944E-07	8.0944E-07	8.1160E-07	8.0474E-07	8.0474E-07	8.0011E-07	7.9547E-07	7.9313E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6322E-07	7.5672E-07	7.5930E-07	7.6460E-07	7.5322E-07	7.5599E-07	7.6990E-07	7.6159E-07	7.5882E-07	7.5599E-07	7.5040E-07	7.5930E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5142E-07	7.4197E-07	7.4757E-07	7.5040E-07	7.5040E-07	7.5322E-07	7.5322E-07	7.4438E-07	7.4143E-07	7.3842E-07	7.3246E-07	7.2945E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0700E-07	6.9978E-07	7.0652E-07	7.0652E-07	7.0989E-07	7.1326E-07	7.1326E-07	7.0008E-07	7.0008E-07	7.0008E-07	6.9653E-07	7.0989E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0652E-07	7.0989E-07	7.0008E-07	7.0724E-07	7.0724E-07	7.0724E-07	7.0724E-07	6.9412E-07	7.0724E-07	7.0369E-07	7.0369E-07	7.0008E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0315E-07	7.1326E-07	7.0369E-07	7.1441E-07	7.1441E-07	7.1441E-07	7.1079E-07	7.1441E-07	7.0724E-07	7.0369E-07	7.0008E-07	6.9292E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6225E-07	7.5774E-07	7.6725E-07	7.7044E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6039E-07	7.5702E-07	7.5365E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9361E-07	7.9620E-07	7.9247E-07	7.9523E-07	7.9806E-07	8.0089E-07	7.8909E-07	7.9210E-07	7.8909E-07	7.8615E-07	7.8314E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5385E-07	8.4904E-07	8.4428E-07	8.4868E-07	8.4428E-07	8.4428E-07	8.4194E-07	8.3502E-07	8.3002E-07	8.3496E-07	8.3032E-07	8.3032E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7751E-07	8.7341E-07	8.7341E-07	8.6758E-07	8.6938E-07	8.6938E-07	8.7119E-07	8.6914E-07	8.6722E-07	8.6342E-07	8.5957E-07	8.5578E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5163E-07	8.5494E-07	8.5662E-07	8.4964E-07	8.5145E-07	8.5145E-07	8.4236E-07	8.4808E-07	8.4615E-07	8.4428E-07	8.4236E-07	8.4043E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1365E-07	8.0619E-07	8.1022E-07	8.1431E-07	8.0510E-07	8.0727E-07	8.0727E-07	8.0246E-07	8.0011E-07	7.9782E-07	8.0727E-07	8.0294E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1022E-07	8.0294E-07	8.0727E-07	8.0944E-07	8.0944E-07	8.0944E-07	8.1160E-07	8.0474E-07	8.0474E-07	8.0011E-07	7.9547E-07	7.9313E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6322E-07	7.5672E-07	7.5930E-07	7.6460E-07	7.5322E-07	7.5599E-07	7.6990E-07	7.6159E-07	7.5882E-07	7.5599E-07	7.5040E-07	7.5930E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5142E-07	7.4197E-07	7.4757E-07	7.5040E-07	7.5040E-07	7.5322E-07	7.5322E-07	7.4438E-07	7.4143E-07	7.3842E-07	7.3246E-07	7.2945E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0700E-07	6.9978E-07	7.0652E-07	7.0652E-07	7.0989E-07	7.1326E-07	7.1326E-07	7.0008E-07	7.0008E-07	7.0008E-07	6.9653E-07	7.0989E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0652E-07	7.0989E-07	7.0008E-07	7.0724E-07	7.0724E-07	7.0724E-07	7.0724E-07	6.9412E-07	7.0724E-07	7.0369E-07	7.0369E-07	7.0008E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0315E-07	7.1326E-07	7.0369E-07	7.1441E-07	7.1441E-07	7.1441E-07	7.1079E-07	7.1441E-07	7.0724E-07	7.0369E-07	7.0008E-07	6.9292E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6225E-07	7.5774E-07	7.6725E-07	7.7044E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6039E-07	7.5702E-07	7.5365E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9361E-07	7.9620E-07	7.9247E-07	7.9523E-07	7.9806E-07	8.0089E-07	7.8909E-07	7.9210E-07	7.8909E-07	7.8615E-07	7.8314E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5385E-07	8.4904E-07	8.4428E-07	8.4868E-07	8.4428E-07	8.4428E-07	8.4194E-07	8.3502E-07	8.3002E-07	8.3496E-07	8.3032E-07	8.3032E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7751E-07	8.7341E-07	8.7341E-07	8.6758E-07	8.6938E-07	8.6938E-07	8.7119E-07	8.6914E-07	8.6722E-07	8.6342E-07	8.5957E-07	8.5578E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5163E-07	8.5494E-07	8.5662E-07	8.4964E-07	8.5145E-07	8.5145E-07	8.4236E-07	8.4808E-07	8.4615E-07	8.4428E-07	8.4236E-07	8.4043E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1365E-07	8.0619E-07	8.1022E-07	8.1431E-07	8.0510E-07	8.0727E-07	8.0727E-07	8.0246E-07	8.0011E-07	7.9782E-07	8.0727E-07	8.0294E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1022E-07	8.0294E-07	8.0727E-07	8.0944E-07	8.0944E-07	8.0944E-07	8.1160E-07	8.0474E-07	8.0474E-07	8.0011E-07	7.9547E-07	7.9313E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6322E-07	7.5672E-07	7.5930E-07	7.6460E-07	7.5322E-07	7.5599E-07	7.6990E-07	7.6159E-07	7.5882E-07	7.5599E-07	7.5040E-07	7.5930E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5142E-07	7.4197E-07	7.4757E-07	7.5040E-07	7.5040E-07	7.5322E-07	7.5322E-07	7.4438E-07	7.4143E-07	7.3842E-07	7.3246E-07	7.2945E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0700E-07	6.9978E-07	7.0652E-07	7.0652E-07	7.0989E-07	7.1326E-07	7.1326E-07	7.0008E-07	7.0008E-07	7.0008E-07	6.9653E-07	7.0989E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0652E-07	7.0989E-07	7.0008E-07	7.0724E-07	7.0724E-07	7.0724E-07	7.0724E-07	6.9412E-07	7.0724E-07	7.0369E-07	7.0369E-07	7.0008E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0315E-07	7.1326E-07	7.0369E-07	7.1441E-07	7.1441E-07	7.1441E-07	7.1079E-07	7.1441E-07	7.0724E-07	7.0369E-07	7.0008E-07	6.9292E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6225E-07	7.5774E-07	7.6725E-07	7.7044E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6039E-07	7.5702E-07	7.5365E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9361E-07	7.9620E-07	7.9247E-07	7.9523E-07	7.9806E-07	8.0089E-07	7.8909E-07	7.9210E-07	7.8909E-07	7.8615E-07	7.8314E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5385E-07	8.4904E-07	8.4428E-07	8.4868E-07	8.4428E-07	8.4428E-07	8.4194E-07	8.3502E-07	8.3002E-07	8.3496E-07	8.3032E-07	8.3032E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_3	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7751E-07	8.7341E-07	8.7341E-07	8.6758E-07	8.6938E-07	8.6938E-07	8.7119E-07	8.6914E-07	8.6722E-07	8.6342E-07	8.5957E-07	8.5578E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5163E-07	8.5494E-07	8.5662E-07	8.4964E-07	8.5145E-07	8.5145E-07	8.4236E-07	8.4808E-07	8.4615E-07	8.4428E-07	8.4236E-07	8.4043E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1365E-07	8.0619E-07	8.1022E-07	8.1431E-07	8.0510E-07	8.0727E-07	8.0727E-07	8.0246E-07	8.0011E-07	7.9782E-07	8.0727E-07	8.0294E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1022E-07	8.0294E-07	8.0727E-07	8.0944E-07	8.0944E-07	8.0944E-07	8.1160E-07	8.0474E-07	8.0474E-07	8.0011E-07	7.9547E-07	7.9313E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6322E-07	7.5672E-07	7.5930E-07	7.6460E-07	7.5322E-07	7.5599E-07	7.6990E-07	7.6159E-07	7.5882E-07	7.5599E-07	7.5040E-07	7.5930E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5142E-07	7.4197E-07	7.4757E-07	7.5040E-07	7.5040E-07	7.5322E-07	7.5322E-07	7.4438E-07	7.4143E-07	7.3842E-07	7.3246E-07	7.2945E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0700E-07	6.9978E-07	7.0652E-07	7.0652E-07	7.0989E-07	7.1326E-07	7.1326E-07	7.0008E-07	7.0008E-07	7.0008E-07	6.9653E-07	7.0989E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0652E-07	7.0989E-07	7.0008E-07	7.0724E-07	7.0724E-07	7.0724E-07	7.0724E-07	6.9412E-07	7.0724E-07	7.0369E-07	7.0369E-07	7.0008E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0315E-07	7.1326E-07	7.0369E-07	7.1441E-07	7.1441E-07	7.1441E-07	7.1079E-07	7.1441E-07	7.0724E-07	7.0369E-07	7.0008E-07	6.9292E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6225E-07	7.5774E-07	7.6725E-07	7.7044E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6039E-07	7.5702E-07	7.5365E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9361E-07	7.9620E-07	7.9247E-07	7.9523E-07	7.9806E-07	8.0089E-07	7.8909E-07	7.9210E-07	7.8909E-07	7.8615E-07	7.8314E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5385E-07	8.4904E-07	8.4428E-07	8.4868E-07	8.4428E-07	8.4428E-07	8.4194E-07	8.3502E-07	8.3002E-07	8.3496E-07	8.3032E-07	8.3032E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_4	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7751E-07	8.7341E-07	8.7341E-07	8.6758E-07	8.6938E-07	8.6938E-07	8.7119E-07	8.6914E-07	8.6722E-07	8.6342E-07	8.5957E-07	8.5578E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7033E-06	1.7099E-06	1.7132E-06	1.6993E-06	1.7029E-06	1.7029E-06	1.6847E-06	1.6962E-06	1.6923E-06	1.6886E-06	1.6847E-06	1.6809E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6273E-06	1.6124E-06	1.6204E-06	1.6286E-06	1.6102E-06	1.6145E-06	1.6145E-06	1.6049E-06	1.6002E-06	1.5956E-06	1.6145E-06	1.6059E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6204E-06	1.6059E-06	1.6145E-06	1.6189E-06	1.6189E-06	1.6189E-06	1.6232E-06	1.6095E-06	1.6095E-06	1.6002E-06	1.5909E-06	1.5863E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5264E-06	1.5134E-06	1.5186E-06	1.5292E-06	1.5064E-06	1.5120E-06	1.5398E-06	1.5232E-06	1.5176E-06	1.5120E-06	1.5008E-06	1.5186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5028E-06	1.4839E-06	1.4951E-06	1.5008E-06	1.5008E-06	1.5064E-06	1.5064E-06	1.4888E-06	1.4829E-06	1.4768E-06	1.4649E-06	1.4589E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4140E-06	1.3996E-06	1.4130E-06	1.4130E-06	1.4198E-06	1.4265E-06	1.4265E-06	1.4002E-06	1.4002E-06	1.4002E-06	1.3931E-06	1.4198E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4130E-06	1.4198E-06	1.4002E-06	1.4145E-06	1.4145E-06	1.4145E-06	1.4145E-06	1.3882E-06	1.4145E-06	1.4074E-06	1.4074E-06	1.4002E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4063E-06	1.4265E-06	1.4074E-06	1.4288E-06	1.4288E-06	1.4288E-06	1.4216E-06	1.4288E-06	1.4145E-06	1.4074E-06	1.4002E-06	1.3858E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5245E-06	1.5155E-06	1.5345E-06	1.5409E-06	1.5208E-06	1.5275E-06	1.5208E-06	1.5275E-06	1.5208E-06	1.5208E-06	1.5140E-06	1.5073E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5872E-06	1.5924E-06	1.5849E-06	1.5905E-06	1.5961E-06	1.6018E-06	1.5782E-06	1.5842E-06	1.5782E-06	1.5723E-06	1.5663E-06	1.5604E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7077E-06	1.6981E-06	1.6886E-06	1.6974E-06	1.6886E-06	1.6886E-06	1.6839E-06	1.6700E-06	1.6600E-06	1.6699E-06	1.6606E-06	1.6606E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_5	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7550E-06	1.7468E-06	1.7468E-06	1.7352E-06	1.7388E-06	1.7388E-06	1.7424E-06	1.7383E-06	1.7344E-06	1.7268E-06	1.7191E-06	1.7116E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7033E-06	1.7099E-06	1.7132E-06	1.6993E-06	1.7029E-06	1.7029E-06	1.6847E-06	1.6962E-06	1.6923E-06	1.6886E-06	1.6847E-06	1.6809E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6273E-06	1.6124E-06	1.6204E-06	1.6286E-06	1.6102E-06	1.6145E-06	1.6145E-06	1.6049E-06	1.6002E-06	1.5956E-06	1.6145E-06	1.6059E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6204E-06	1.6059E-06	1.6145E-06	1.6189E-06	1.6189E-06	1.6189E-06	1.6232E-06	1.6095E-06	1.6095E-06	1.6002E-06	1.5909E-06	1.5863E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5264E-06	1.5134E-06	1.5186E-06	1.5292E-06	1.5064E-06	1.5120E-06	1.5398E-06	1.5232E-06	1.5176E-06	1.5120E-06	1.5008E-06	1.5186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5028E-06	1.4839E-06	1.4951E-06	1.5008E-06	1.5008E-06	1.5064E-06	1.5064E-06	1.4888E-06	1.4829E-06	1.4768E-06	1.4649E-06	1.4589E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4140E-06	1.3996E-06	1.4130E-06	1.4130E-06	1.4198E-06	1.4265E-06	1.4265E-06	1.4002E-06	1.4002E-06	1.4002E-06	1.3931E-06	1.4198E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4130E-06	1.4198E-06	1.4002E-06	1.4145E-06	1.4145E-06	1.4145E-06	1.4145E-06	1.3882E-06	1.4145E-06	1.4074E-06	1.4074E-06	1.4002E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4063E-06	1.4265E-06	1.4074E-06	1.4288E-06	1.4288E-06	1.4288E-06	1.4216E-06	1.4288E-06	1.4145E-06	1.4074E-06	1.4002E-06	1.3858E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5245E-06	1.5155E-06	1.5345E-06	1.5409E-06	1.5208E-06	1.5275E-06	1.5208E-06	1.5275E-06	1.5208E-06	1.5208E-06	1.5140E-06	1.5073E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5872E-06	1.5924E-06	1.5849E-06	1.5905E-06	1.5961E-06	1.6018E-06	1.5782E-06	1.5842E-06	1.5782E-06	1.5723E-06	1.5663E-06	1.5604E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7077E-06	1.6981E-06	1.6886E-06	1.6974E-06	1.6886E-06	1.6886E-06	1.6839E-06	1.6700E-06	1.6600E-06	1.6699E-06	1.6606E-06	1.6606E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_6	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7550E-06	1.7468E-06	1.7468E-06	1.7352E-06	1.7388E-06	1.7388E-06	1.7424E-06	1.7383E-06	1.7344E-06	1.7268E-06	1.7191E-06	1.7116E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7033E-06	1.7099E-06	1.7132E-06	1.6993E-06	1.7029E-06	1.7029E-06	1.6847E-06	1.6962E-06	1.6923E-06	1.6886E-06	1.6847E-06	1.6809E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6273E-06	1.6124E-06	1.6204E-06	1.6286E-06	1.6102E-06	1.6145E-06	1.6145E-06	1.6049E-06	1.6002E-06	1.5956E-06	1.6145E-06	1.6059E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6204E-06	1.6059E-06	1.6145E-06	1.6189E-06	1.6189E-06	1.6189E-06	1.6232E-06	1.6095E-06	1.6095E-06	1.6002E-06	1.5909E-06	1.5863E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5264E-06	1.5134E-06	1.5186E-06	1.5292E-06	1.5064E-06	1.5120E-06	1.5398E-06	1.5232E-06	1.5176E-06	1.5120E-06	1.5008E-06	1.5186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5028E-06	1.4839E-06	1.4951E-06	1.5008E-06	1.5008E-06	1.5064E-06	1.5064E-06	1.4888E-06	1.4829E-06	1.4768E-06	1.4649E-06	1.4589E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4140E-06	1.3996E-06	1.4130E-06	1.4130E-06	1.4198E-06	1.4265E-06	1.4265E-06	1.4002E-06	1.4002E-06	1.4002E-06	1.3931E-06	1.4198E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4130E-06	1.4198E-06	1.4002E-06	1.4145E-06	1.4145E-06	1.4145E-06	1.4145E-06	1.3882E-06	1.4145E-06	1.4074E-06	1.4074E-06	1.4002E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4063E-06	1.4265E-06	1.4074E-06	1.4288E-06	1.4288E-06	1.4288E-06	1.4216E-06	1.4288E-06	1.4145E-06	1.4074E-06	1.4002E-06	1.3858E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5245E-06	1.5155E-06	1.5345E-06	1.5409E-06	1.5208E-06	1.5275E-06	1.5208E-06	1.5275E-06	1.5208E-06	1.5208E-06	1.5140E-06	1.5073E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5872E-06	1.5924E-06	1.5849E-06	1.5905E-06	1.5961E-06	1.6018E-06	1.5782E-06	1.5842E-06	1.5782E-06	1.5723E-06	1.5663E-06	1.5604E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7077E-06	1.6981E-06	1.6886E-06	1.6974E-06	1.6886E-06	1.6886E-06	1.6839E-06	1.6700E-06	1.6600E-06	1.6699E-06	1.6606E-06	1.6606E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_7	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7550E-06	1.7468E-06	1.7468E-06	1.7352E-06	1.7388E-06	1.7388E-06	1.7424E-06	1.7383E-06	1.7344E-06	1.7268E-06	1.7191E-06	1.7116E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7033E-06	1.7099E-06	1.7132E-06	1.6993E-06	1.7029E-06	1.7029E-06	1.6847E-06	1.6962E-06	1.6923E-06	1.6886E-06	1.6847E-06	1.6809E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6273E-06	1.6124E-06	1.6204E-06	1.6286E-06	1.6102E-06	1.6145E-06	1.6145E-06	1.6049E-06	1.6002E-06	1.5956E-06	1.6145E-06	1.6059E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6204E-06	1.6059E-06	1.6145E-06	1.6189E-06	1.6189E-06	1.6189E-06	1.6232E-06	1.6095E-06	1.6095E-06	1.6002E-06	1.5909E-06	1.5863E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	CVEH15_8	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5264E-06	1.5134E-06	1.5186E-06	1.5292E-06	1.5064E-06	1.5120E-06	1.5398E-06	1.5232E-06	1.5176E-06	1.5120E-06	1.5008E-06	1.5186E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5028E-06	1.4839E-06	1.4951E-06	1.5008E-06	1.5008E-06	1.5064E-06	1.5064E-06	1.4888E-06	1.4829E-06	1.4768E-06	1.4649E-06	1.4589E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4140E-06	1.3996E-06	1.4130E-06	1.4130E-06	1.4198E-06	1.4265E-06	1.4265E-06	1.4002E-06	1.4002E-06	1.4002E-06	1.3931E-06	1.4198E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4130E-06	1.4198E-06	1.4002E-06	1.4145E-06	1.4145E-06	1.4145E-06	1.4145E-06	1.3882E-06	1.4145E-06	1.4074E-06	1.4074E-06	1.4002E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4063E-06	1.4265E-06	1.4074E-06	1.4288E-06	1.4288E-06	1.4288E-06	1.4216E-06	1.4288E-06	1.4145E-06	1.4074E-06	1.4002E-06	1.3858E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5245E-06	1.5155E-06	1.5345E-06	1.5409E-06	1.5208E-06	1.5275E-06	1.5208E-06	1.5275E-06	1.5208E-06	1.5208E-06	1.5140E-06	1.5073E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5872E-06	1.5924E-06	1.5849E-06	1.5905E-06	1.5961E-06	1.6018E-06	1.5782E-06	1.5842E-06	1.5782E-06	1.5723E-06	1.5663E-06	1.5604E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7077E-06	1.6981E-06	1.6886E-06	1.6974E-06	1.6886E-06	1.6886E-06	1.6839E-06	1.6700E-06	1.6600E-06	1.6699E-06	1.6606E-06	1.6606E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_8	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7550E-06	1.7468E-06	1.7468E-06	1.7352E-06	1.7388E-06	1.7388E-06	1.7424E-06	1.7383E-06	1.7344E-06	1.7268E-06	1.7191E-06	1.7116E-06	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5163E-07	8.5494E-07	8.5662E-07	8.4964E-07	8.5145E-07	8.5145E-07	8.4236E-07	8.4808E-07	8.4615E-07	8.4428E-07	8.4236E-07	8.4043E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1365E-07	8.0619E-07	8.1022E-07	8.1431E-07	8.0510E-07	8.0727E-07	8.0727E-07	8.0246E-07	8.0011E-07	7.9782E-07	8.0727E-07	8.0294E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.1022E-07	8.0294E-07	8.0727E-07	8.0944E-07	8.0944E-07	8.0944E-07	8.1160E-07	8.0474E-07	8.0474E-07	8.0011E-07	7.9547E-07	7.9313E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6322E-07	7.5672E-07	7.5930E-07	7.6460E-07	7.5322E-07	7.5599E-07	7.6990E-07	7.6159E-07	7.5882E-07	7.5599E-07	7.5040E-07	7.5930E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.5142E-07	7.4197E-07	7.4757E-07	7.5040E-07	7.5040E-07	7.5322E-07	7.5322E-07	7.4438E-07	7.4143E-07	7.3842E-07	7.3246E-07	7.2945E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0700E-07	6.9978E-07	7.0652E-07	7.0652E-07	7.0989E-07	7.1326E-07	7.1326E-07	7.0008E-07	7.0008E-07	7.0008E-07	6.9653E-07	7.0989E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0652E-07	7.0989E-07	7.0008E-07	7.0724E-07	7.0724E-07	7.0724E-07	7.0724E-07	6.9412E-07	7.0724E-07	7.0369E-07	7.0369E-07	7.0008E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0315E-07	7.1326E-07	7.0369E-07	7.1441E-07	7.1441E-07	7.1441E-07	7.1079E-07	7.1441E-07	7.0724E-07	7.0369E-07	7.0008E-07	6.9292E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.6225E-07	7.5774E-07	7.6725E-07	7.7044E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6376E-07	7.6039E-07	7.6039E-07	7.5702E-07	7.5365E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.9361E-07	7.9620E-07	7.9247E-07	7.9523E-07	7.9806E-07	8.0089E-07	7.8909E-07	7.9210E-07	7.8909E-07	7.8615E-07	7.8314E-07	7.8019E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.5385E-07	8.4904E-07	8.4428E-07	8.4868E-07	8.4428E-07	8.4428E-07	8.4194E-07	8.3502E-07	8.3002E-07	8.3496E-07	8.3032E-07	8.3032E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH15_9	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.7751E-07	8.7341E-07	8.7341E-07	8.6758E-07	8.6938E-07	8.6938E-07	8.7119E-07	8.6914E-07	8.6722E-07	8.6342E-07	8.5957E-07	8.5578E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	CVEH16_1	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9653E-07	1.9729E-07	1.9768E-07	1.9607E-07	1.9649E-07	1.9649E-07	1.9439E-07	1.9571E-07	1.9527E-07	1.9483E-07	1.9439E-07	1.9395E-07	1.9350E-07	1.9218E-07	1.9218E-07	1.9483E-07	0.0000E+00
NO2	CVEH16_1	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8777E-07	1.8604E-07	1.8697E-07	1.8792E-07	1.8579E-07	1.8629E-07	1.8629E-07	1.8518E-07	1.8464E-07	1.8411E-07	1.8629E-07	1.8529E-07	1.8478E-07	1.8557E-07	1.8557E-07	1.8510E-07	0.0000E+00
NO2	CVEH16_1	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8697E-07	1.8529E-07	1.8629E-07	1.8679E-07	1.8679E-07	1.8679E-07	1.8729E-07	1.8571E-07	1.8571E-07	1.8464E-07	1.8357E-07	1.8303E-07	1.8250E-07	1.8378E-07	1.8378E-07	1.8378E-07	0.0000E+00
NO2	CVEH16_1	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7613E-07	1.7463E-07	1.7522E-07	1.7645E-07	1.7382E-07	1.7446E-07	1.7767E-07	1.7575E-07	1.7511E-07	1.7446E-07	1.7317E-07	1.7522E-07	1.7188E-07	1.7340E-07	1.7279E-07	1.7279E-07	0.0000E+00
NO2	CVEH16_1	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7340E-07	1.7122E-07	1.7252E-07	1.7317E-07	1.7317E-07	1.7382E-07	1.7382E-07	1.7178E-07	1.7110E-07	1.7040E-07	1.6903E-07	1.6833E-07	1.7122E-07	1.6928E-07	1.6864E-07	1.6864E-07	0.0000E+00
NO2	CVEH16_1	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6315E-07	1.6149E-07	1.6304E-07	1.6304E-07	1.6382E-07	1.6460E-07	1.6460E-07	1.6156E-07	1.6156E-07	1.6156E-07	1.6074E-07	1.6382E-07	1.6382E-07	1.6071E-07	1.5993E-07	1.5993E-07	0.0000E+00
NO2	CVEH16_1	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6304E-07	1.6382E-07	1.6156E-07	1.6321E-07	1.6321E-07	1.6321E-07	1.6321E-07	1.6018E-07	1.6321E-07	1.6239E-07	1.6239E-07	1.6156E-07	1.6074E-07	1.6304E-07	1.6304E-07	1.6227E-07	0.0000E+00
NO2	CVEH16_1	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6227E-07	1.6460E-07	1.6239E-07	1.6486E-07	1.6486E-07	1.6486E-07	1.6403E-07	1.6486E-07	1.6321E-07	1.6239E-07	1.6156E-07	1.5990E-07	1.5990E-07	1.6227E-07	1.6149E-07	1.6149E-07	0.0000E+00
NO2	CVEH16_1	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7590E-07	1.7486E-07	1.7706E-07	1.7779E-07	1.7547E-07	1.7625E-07	1.7547E-07	1.7625E-07	1.7547E-07	1.7547E-07	1.7470E-07	1.7392E-07	1.7392E-07	1.7236E-07	1.7486E-07	1.7413E-07	0.0000E+00
NO2	CVEH16_1	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8314E-07	1.8374E-07	1.8288E-07	1.8352E-07	1.8417E-07	1.8482E-07	1.8210E-07	1.8279E-07	1.8210E-07	1.8142E-07	1.8072E-07	1.8004E-07	1.7867E-07	1.7797E-07	1.8029E-07	1.8093E-07	0.0000E+00
NO2	CVEH16_1	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9704E-07	1.9593E-07	1.9483E-07	1.9585E-07	1.9483E-07	1.9483E-07	1.9429E-07	1.9270E-07	1.9154E-07	1.9268E-07	1.9161E-07	1.9161E-07	1.9107E-07	1.9000E-07	1.9000E-07	1.9232E-07	0.0000E+00
NO2	CVEH16_1	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0250E-07	2.0156E-07	2.0156E-07	2.0021E-07	2.0063E-07	2.0063E-07	2.0104E-07	2.0057E-07	2.0013E-07	1.9925E-07	1.9836E-07	1.9749E-07	1.9749E-07	1.9772E-07	1.9731E-07	1.9731E-07	0.0000E+00
NO2	CVEH16_2	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9653E-07	1.9729E-07	1.9768E-07	1.9607E-07	1.9649E-07	1.9649E-07	1.9439E-07	1.9571E-07	1.9527E-07	1.9483E-07	1.9439E-07	1.9395E-07	1.9350E-07	1.9218E-07	1.9218E-07	1.9483E-07	0.0000E+00
NO2	CVEH16_2	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8777E-07	1.8604E-07	1.8697E-07	1.8792E-07	1.8579E-07	1.8629E-07	1.8629E-07	1.8518E-07	1.8464E-07	1.8411E-07	1.8629E-07	1.8529E-07	1.8478E-07	1.8557E-07	1.8557E-07	1.8510E-07	0.0000E+00
NO2	CVEH16_2	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8697E-07	1.8529E-07	1.8629E-07	1.8679E-07	1.8679E-07	1.8679E-07	1.8729E-07	1.8571E-07	1.8571E-07	1.8464E-07	1.8357E-07	1.8303E-07	1.8250E-07	1.8378E-07	1.8378E-07	1.8378E-07	0.0000E+00
NO2	CVEH16_2	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7613E-07	1.7463E-07	1.7522E-07	1.7645E-07	1.7382E-07	1.7446E-07	1.7767E-07	1.7575E-07	1.7511E-07	1.7446E-07	1.7317E-07	1.7522E-07	1.7188E-07	1.7340E-07	1.7279E-07	1.7279E-07	0.0000E+00
NO2	CVEH16_2	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7340E-07	1.7122E-07	1.7252E-07	1.7317E-07	1.7317E-07	1.7382E-07	1.7382E-07	1.7178E-07	1.7110E-07	1.7040E-07	1.6903E-07	1.6833E-07	1.7122E-07	1.6928E-07	1.6864E-07	1.6864E-07	0.0000E+00
NO2	CVEH16_2	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6315E-07	1.6149E-07	1.6304E-07	1.6304E-07	1.6382E-07	1.6460E-07	1.6460E-07	1.6156E-07	1.6156E-07	1.6156E-07	1.6074E-07	1.6382E-07	1.6382E-07	1.6071E-07	1.5993E-07	1.5993E-07	0.0000E+00
NO2	CVEH16_2	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6304E-07	1.6382E-07	1.6156E-07	1.6321E-07	1.6321E-07	1.6321E-07	1.6321E-07	1.6018E-07	1.6321E-07	1.6239E-07	1.6239E-07	1.6156E-07	1.6074E-07	1.6304E-07	1.6304E-07	1.6227E-07	0.0000E+00
NO2	CVEH16_2	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6227E-07	1.6460E-07	1.6239E-07	1.6486E-07	1.6486E-07	1.6486E-07	1.6403E-07	1.6486E-07	1.6321E-07	1.6239E-07	1.6156E-07	1.5990E-07	1.5990E-07	1.6227E-07	1.6149E-07	1.6149E-07	0.0000E+00
NO2	CVEH16_2	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7590E-07	1.7486E-07	1.7706E-07	1.7779E-07	1.7547E-07	1.7625E-07	1.7547E-07	1.7625E-07	1.7547E-07	1.7547E-07	1.7470E-07	1.7392E-07	1.7392E-07	1.7236E-07	1.7486E-07	1.7413E-07	0.0000E+00
NO2	CVEH16_2	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8314E-07	1.8374E-07	1.8288E-07	1.8352E-07	1.8417E-07	1.8482E-07	1.8210E-07	1.8279E-07	1.8210E-07	1.8142E-07	1.8072E-07	1.8004E-07	1.7867E-07	1.7797E-07	1.8029E-07	1.8093E-07	0.0000E+00
NO2	CVEH16_2	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9704E-07	1.9593E-07	1.9483E-07	1.9585E-07	1.9483E-07	1.9483E-07	1.9429E-07	1.9270E-07	1.9154E-07	1.9268E-07	1.9161E-07	1.9161E-07	1.9107E-07	1.9000E-07	1.9000E-07	1.9232E-07	0.0000E+00
NO2	CVEH16_2	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0250E-07	2.0156E-07	2.0156E-07	2.0021E-07	2.0063E-07	2.0063E-07	2.0104E-07	2.0057E-07	2.0013E-07	1.9925E-07	1.9836E-07	1.9749E-07	1.9749E-07	1.9772E-07	1.9731E-07	1.9731E-07	0.0000E+00
NO2	R1a_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5730E-06	1.5622E-06	1.5739E-06	1.5598E-06	1.5679E-06	1.5679E-06	1.5450E-06	1.5408E-06	1.5515E-06	1.5432E-06	1.5351E-06	1.5309E-06	1.5187E-06	1.5392E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4748E-06	1.4690E-06	1.4831E-06	1.4693E-06	1.4743E-06	1.4792E-06	1.4792E-06	1.4743E-06	1.4643E-06	1.4690E-06	1.4597E-06	1.4504E-06	1.4618E-06	1.4574E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4738E-06	1.4643E-06	1.4743E-06	1.4792E-06	1.4792E-06	1.4607E-06	1.4607E-06	1.4554E-06	1.4643E-06	1.4543E-06	1.4394E-06	1.4597E-06	1.4504E-06	1.4409E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3556E-06	1.3676E-06	1.3629E-06	1.3694E-06	1.3759E-06	1.3759E-06	1.3759E-06	1.3694E-06	1.3796E-06	1.3615E-06	1.3737E-06	1.3680E-06	1.3510E-06	1.3453E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3495E-06	1.3373E-06	1.3501E-06	1.3566E-06	1.3566E-06	1.3566E-06	1.3328E-06	1.3259E-06	1.3373E-06	1.3182E-06	1.3053E-06	1.3314E-06	1.3134E-06	1.3073E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2577E-06	1.2524E-06	1.2601E-06	1.2754E-06	1.2831E-06	1.2831E-06	1.2410E-06	1.2754E-06	1.2677E-06	1.2524E-06	1.2649E-06	1.2649E-06	1.2359E-06	1.2287E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2524E-06	1.2754E-06	1.2654E-06	1.2736E-06	1.2817E-06	1.2736E-06	1.2736E-06	1.2654E-06	1.2491E-06	1.2677E-06	1.2524E-06	1.2447E-06	1.2577E-06	1.2504E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2866E-06	1.2831E-06	1.2736E-06	1.2899E-06	1.2817E-06	1.2736E-06	1.2736E-06	1.2573E-06	1.2754E-06	1.2524E-06	1.2371E-06	1.2293E-06	1.2504E-06	1.2432E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3805E-06	1.3807E-06	1.3951E-06	1.3830E-06	1.3906E-06	1.3830E-06	1.3830E-06	1.3752E-06	1.3676E-06	1.3807E-06	1.3662E-06	1.3589E-06	1.3737E-06	1.3601E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4399E-06	1.4519E-06	1.4464E-06	1.4592E-06	1.4592E-06	1.4592E-06	1.4655E-06	1.4592E-06	1.4399E-06	1.4271E-06	1.4143E-06	1.4015E-06	1.4218E-06	1.4158E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5670E-06	1.5626E-06	1.5591E-06	1.5691E-06	1.5691E-06	1.5511E-06	1.5458E-06	1.5299E-06	1.5342E-06	1.5192E-06	1.5143E-06	1.5092E-06	1.5253E-06	1.5206E-06	0.0000E+00	0.0000E+00
NO2	R1a_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6127E-06	1.6199E-06	1.6124E-06	1.6163E-06	1.6051E-06	1.6091E-06	1.5978E-06	1.5890E-06	1.5968E-06	1.5804E-06	1.5721E-06	1.5854E-06	1.5739E-06	1.5875E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5730E-06	1.5661E-06	1.5556E-06	1.5598E-06	1.5679E-06	1.5679E-06	1.5450E-06	1.5408E-06	1.5515E-06	1.5432E-06	1.5351E-06	1.5309E-06	1.5187E-06	1.5187E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4748E-06	1.4690E-06	1.4831E-06	1.4693E-06	1.4743E-06	1.4743E-06	1.4743E-06	1.4693E-06	1.4593E-06	1.4690E-06	1.4597E-06	1.4504E-06	1.4618E-06	1.4574E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4738E-06	1.4593E-06	1.4743E-06	1.4792E-06	1.4743E-06	1.4554E-06	1.4554E-06	1.4501E-06	1.4643E-06	1.4493E-06	1.4394E-06	1.4597E-06	1.4504E-06	1.4409E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3495E-06	1.3615E-06	1.3796E-06	1.3629E-06	1.3629E-06	1.3629E-06	1.3694E-06	1.3629E-06	1.3796E-06	1.3556E-06	1.3680E-06	1.3680E-06	1.3510E-06	1.3453E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3495E-06	1.3373E-06	1.3438E-06	1.3501E-06	1.3566E-06	1.3566E-06	1.3328E-06	1.3192E-06	1.3310E-06	1.3182E-06	1.3053E-06	1.3314E-06	1.3134E-06	1.3073E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2577E-06	1.2447E-06	1.2601E-06	1.2601E-06	1.2754E-06	1.2677E-06	1.2677E-06	1.2677E-06	1.2601E-06	1.2524E-06	1.2649E-06	1.2649E-06	1.2359E-06	1.2287E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2447E-06	1.2677E-06	1.2573E-06	1.2654E-06	1.2654E-06	1.2654E-06	1.2654E-06	1.2573E-06	1.2410E-06	1.2677E-06	1.2524E-06	1.2447E-06	1.2577E-06	1.2577E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2524E-06	1.2831E-06	1.2736E-06	1.2817E-06	1.2736E-06	1.2654E-06	1.2654E-06	1.2573E-06	1.2754E-06	1.2524E-06	1.2293E-06	1.2293E-06	1.2504E-06	1.2432E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3805E-06	1.3734E-06	1.3951E-06	1.3830E-06	1.3830E-06	1.3830E-06	1.3830E-06	1.3676E-06	1.3598E-06	1.3807E-06	1.3662E-06	1.3589E-06	1.3737E-06	1.3668E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4399E-06	1.4519E-06	1.4464E-06	1.4527E-06	1.4592E-06	1.4592E-06	1.4418E-06	1.4527E-06	1.4399E-06	1.4271E-06	1.4143E-06	1.4015E-06	1.4218E-06	1.4158E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5670E-06	1.5626E-06	1.5591E-06	1.5691E-06	1.5511E-06	1.5511E-06	1.5458E-06	1.5299E-06	1.5342E-06	1.5192E-06	1.5143E-06	1.5092E-06	1.5042E-06	1.5206E-06	0.0000E+00	0.0000E+00
NO2	R1b_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6127E-06	1.6047E-06	1.6124E-06	1.6009E-06	1.6051E-06	1.6091E-06	1.5978E-06	1.5890E-06	1.5926E-06	1.5804E-06	1.5721E-06	1.5854E-06	1.5739E-06	1.5875E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5730E-06	1.5622E-06	1.5739E-06	1.5598E-06	1.5679E-06	1.5679E-06	1.5450E-06	1.5408E-06	1.5515E-06	1.5432E-06	1.5351E-06	1.5309E-06	1.5187E-06	1.5392E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4748E-06	1.4690E-06	1.4831E-06	1.4693E-06	1.4743E-06	1.4792E-06	1.4792E-06	1.4743E-06	1.4643E-06	1.4690E-06	1.4597E-06	1.4504E-06	1.4618E-06	1.4574E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4738E-06	1.4643E-06	1.4743E-06	1.4792E-06	1.4792E-06	1.4607E-06	1.4607E-06	1.4554E-06	1.4643E-06	1.4543E-06	1.4394E-06	1.4597E-06	1.4504E-06	1.4409E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3556E-06	1.3676E-06	1.3629E-06	1.3694E-06	1.3759E-06	1.3759E-06	1.3759E-06	1.3694E-06	1.3796E-06	1.3615E-06	1.3737E-06	1.3680E-06	1.3510E-06	1.3453E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3495E-06	1.3373E-06	1.3501E-06	1.3566E-06	1.3566E-06	1.3566E-06	1.3328E-06	1.3259E-06	1.3373E-06	1.3182E-06	1.3053E-06	1.3314E-06	1.3134E-06	1.3073E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2577E-06	1.2524E-06	1.2601E-06	1.2754E-06	1.2831E-06	1.2831E-06	1.2410E-06	1.2754E-06	1.2677E-06	1.2524E-06	1.2649E-06	1.2649E-06	1.2359E-06	1.2287E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2524E-06	1.2754E-06	1.2654E-06	1.2736E-06	1.2817E-06	1.2736E-06	1.2736E-06	1.2654E-06	1.2491E-06	1.2677E-06	1.2524E-06	1.2447E-06	1.2577E-06	1.2504E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2866E-06	1.2831E-06	1.2736E-06	1.2899E-06	1.2817E-06	1.2736E-06	1.2736E-06	1.2573E-06	1.2754E-06	1.2524E-06	1.2371E-06	1.2293E-06	1.2504E-06	1.2432E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3805E-06	1.3807E-06	1.3951E-06	1.3830E-06	1.3906E-06	1.3830E-06	1.3830E-06	1.3752E-06	1.3676E-06	1.3807E-06	1.3662E-06	1.3589E-06	1.3737E-06	1.3601E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.4399E-06	1.4519E-06	1.4464E-06	1.4592E-06	1.4592E-06	1.4592E-06	1.4655E-06	1.4592E-06	1.4399E-06	1.4271E-06	1.4143E-06	1.4015E-06	1.4218E-06	1.4158E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5670E-06	1.5626E-06	1.5591E-06	1.5691E-06	1.5691E-06	1.5511E-06	1.5458E-06	1.5299E-06	1.5342E-06	1.5192E-06	1.5143E-06	1.5092E-06	1.5253E-06	1.5206E-06	0.0000E+00	0.0000E+00
NO2	R1b_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6127E-06	1.6199E-06	1.6124E-06	1.6163E-06	1.6051E-06	1.6091E-06	1.5978E-06	1.5890E-06	1.5968E-06	1.5804E-06	1.5721E-06	1.5854E-06	1.5739E-06	1.5875E-06	0.0000E+00	0.0000E+00
NO2	R2a_5029	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1644E-06	7.3770E-06	8.4211E-06	6.6755E-06	5.5472E-06	6.3542E-06	6.9654E-06	6.3514E-06	5.5781E-06	3.6108E-06	8.9785E-07	2.1893E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9658E-06	6.9341E-06	7.9321E-06	6.2858E-06	5.2139E-06	5.9924E-06	6.6666E-06	6.0760E-06	5.2625E-06	3.4361E-06	8.5350E-07	2.0733E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9635E-06	6.9113E-06	7.8850E-06	6.3287E-06	5.2314E-06	5.9172E-06	6.5829E-06	5.9978E-06	5.2625E-06	3.4013E-06	8.4151E-07	2.0867E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7244E-06	6.4523E-06	7.2860E-06	5.8562E-06	4.8638E-06	5.5714E-06	6.1981E-06	5.6412E-06	4.9566E-06	3.1831E-06	8.0288E-07	1.9549E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.3090E-06	7.2173E-06	5.8013E-06	4.7954E-06	5.4930E-06	6.0031E-06	5.4612E-06	4.8039E-06	3.0810E-06	7.6272E-07	1.9023E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5266E-06	5.9059E-06	6.7328E-06	5.4522E-06	4.5341E-06	5.1937E-06	5.5868E-06	5.2520E-06	4.5523E-06	2.9266E-06	7.3899E-07	1.8067E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5160E-06	6.0152E-06	6.7615E-06	5.4439E-06	4.5289E-06	5.1546E-06	5.7345E-06	5.2102E-06	4.4849E-06	2.9626E-06	7.3164E-07	1.7777E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5851E-06	6.0516E-06	6.8053E-06	5.5139E-06	4.5289E-06	5.1546E-06	5.7345E-06	5.1765E-06	4.5802E-06	2.9266E-06	7.2262E-07	1.7556E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7749E-06	6.5143E-06	7.4590E-06	5.9145E-06	4.9162E-06	5.6003E-06	6.2303E-06	5.6656E-06	4.9130E-06	3.2280E-06	7.9850E-07	1.9419E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8950E-06	6.8526E-06	7.7344E-06	6.2421E-06	5.1598E-06	5.9105E-06	6.6045E-06	6.0130E-06	5.1742E-06	3.3371E-06	8.2677E-07	2.0030E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	R2a_5029	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1523E-06	7.3785E-06	8.3409E-06	6.7152E-06	5.5508E-06	6.2852E-06	6.9682E-06	6.3061E-06	5.5151E-06	3.5538E-06	8.8554E-07	2.1579E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2a_5029	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2448E-06	7.6505E-06	8.6283E-06	6.9188E-06	5.6790E-06	6.5220E-06	7.2040E-06	6.5515E-06	5.7417E-06	3.6979E-06	9.1963E-07	2.2676E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1644E-06	7.3953E-06	8.3227E-06	6.6755E-06	5.5472E-06	6.3542E-06	6.9654E-06	6.3514E-06	5.5781E-06	3.6108E-06	8.9785E-07	2.1893E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9658E-06	6.9341E-06	7.9321E-06	6.2858E-06	5.2139E-06	5.9724E-06	6.6443E-06	6.0550E-06	5.2444E-06	3.4361E-06	8.5350E-07	2.0733E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9635E-06	6.8876E-06	7.8850E-06	6.3287E-06	5.2139E-06	5.8955E-06	6.5588E-06	5.9757E-06	5.2625E-06	3.3896E-06	8.4151E-07	2.0867E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.4236E-06	7.3759E-06	5.8285E-06	4.8179E-06	5.5188E-06	6.1689E-06	5.6145E-06	4.9566E-06	3.1689E-06	7.9957E-07	1.9549E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.3090E-06	7.1830E-06	5.7735E-06	4.7954E-06	5.4930E-06	6.0031E-06	5.4333E-06	4.7808E-06	3.0810E-06	7.6272E-07	1.9023E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5266E-06	5.8693E-06	6.7328E-06	5.3859E-06	4.5068E-06	5.1311E-06	5.7083E-06	5.2201E-06	4.5245E-06	2.9266E-06	7.3899E-07	1.8067E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5004E-06	5.9786E-06	6.7177E-06	5.4088E-06	4.4710E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.4554E-06	2.9626E-06	7.3164E-07	1.7777E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5160E-06	6.0516E-06	6.8053E-06	5.4789E-06	4.4999E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.5802E-06	2.9266E-06	7.1807E-07	1.7556E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7749E-06	6.4802E-06	7.4590E-06	5.9145E-06	4.8890E-06	5.6003E-06	6.2303E-06	5.6337E-06	4.8851E-06	3.2280E-06	7.9850E-07	1.9419E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8950E-06	6.8526E-06	7.7344E-06	6.2143E-06	5.1598E-06	5.9105E-06	6.4968E-06	5.9862E-06	5.1742E-06	3.3371E-06	8.2677E-07	2.0030E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1523E-06	7.3785E-06	8.3409E-06	6.7152E-06	5.4870E-06	6.2852E-06	6.9682E-06	6.3061E-06	5.5151E-06	3.5538E-06	8.8554E-07	2.1579E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2b_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2448E-06	7.5782E-06	8.6283E-06	6.8524E-06	5.6790E-06	6.5220E-06	7.2040E-06	6.5515E-06	5.7267E-06	3.6979E-06	9.1963E-07	2.2676E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1644E-06	7.3953E-06	8.3227E-06	6.6755E-06	5.5472E-06	6.3542E-06	6.9654E-06	6.3514E-06	5.5781E-06	3.6108E-06	8.9785E-07	2.1893E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9658E-06	6.9341E-06	7.9321E-06	6.2858E-06	5.2139E-06	5.9724E-06	6.6443E-06	6.0550E-06	5.2444E-06	3.4361E-06	8.5350E-07	2.0733E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9635E-06	6.8876E-06	7.8850E-06	6.3287E-06	5.2139E-06	5.8955E-06	6.5588E-06	5.9757E-06	5.2625E-06	3.3896E-06	8.4151E-07	2.0867E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.4236E-06	7.3759E-06	5.8285E-06	4.8179E-06	5.5188E-06	6.1689E-06	5.6145E-06	4.9566E-06	3.1689E-06	7.9957E-07	1.9549E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.3090E-06	7.1830E-06	5.7735E-06	4.7954E-06	5.4930E-06	6.0031E-06	5.4333E-06	4.7808E-06	3.0810E-06	7.6272E-07	1.9023E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5266E-06	5.8693E-06	6.7328E-06	5.3859E-06	4.5068E-06	5.1311E-06	5.7083E-06	5.2201E-06	4.5245E-06	2.9266E-06	7.3899E-07	1.8067E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5004E-06	5.9786E-06	6.7177E-06	5.4088E-06	4.4710E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.4554E-06	2.9626E-06	7.3164E-07	1.7777E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5160E-06	6.0516E-06	6.8053E-06	5.4789E-06	4.4999E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.5802E-06	2.9266E-06	7.1807E-07	1.7556E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7749E-06	6.4802E-06	7.4590E-06	5.9145E-06	4.8890E-06	5.6003E-06	6.2303E-06	5.6337E-06	4.8851E-06	3.2280E-06	7.9850E-07	1.9419E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8950E-06	6.8526E-06	7.7344E-06	6.2143E-06	5.1598E-06	5.9105E-06	6.4968E-06	5.9862E-06	5.1742E-06	3.3371E-06	8.2677E-07	2.0030E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1523E-06	7.3785E-06	8.3409E-06	6.7152E-06	5.4870E-06	6.2852E-06	6.9682E-06	6.3061E-06	5.5151E-06	3.5538E-06	8.8554E-07	2.1579E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2c_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2448E-06	7.5782E-06	8.6283E-06	6.8524E-06	5.6790E-06	6.5220E-06	7.2040E-06	6.5515E-06	5.7267E-06	3.6979E-06	9.1963E-07	2.2676E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1644E-06	7.3953E-06	8.3227E-06	6.6755E-06	5.5472E-06	6.3542E-06	6.9654E-06	6.3514E-06	5.5781E-06	3.6108E-06	8.9785E-07	2.1893E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9658E-06	6.9341E-06	7.9321E-06	6.2858E-06	5.2139E-06	5.9724E-06	6.6443E-06	6.0550E-06	5.2444E-06	3.4361E-06	8.5350E-07	2.0733E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9635E-06	6.8876E-06	7.8850E-06	6.3287E-06	5.2139E-06	5.8955E-06	6.5588E-06	5.9757E-06	5.2625E-06	3.3896E-06	8.4151E-07	2.0867E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.4236E-06	7.3759E-06	5.8285E-06	4.8179E-06	5.5188E-06	6.1689E-06	5.6145E-06	4.9566E-06	3.1689E-06	7.9957E-07	1.9549E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.3090E-06	7.1830E-06	5.7735E-06	4.7954E-06	5.4930E-06	6.0031E-06	5.4333E-06	4.7808E-06	3.0810E-06	7.6272E-07	1.9023E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5266E-06	5.8693E-06	6.7328E-06	5.3859E-06	4.5068E-06	5.1311E-06	5.7083E-06	5.2201E-06	4.5245E-06	2.9266E-06	7.3899E-07	1.8067E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5004E-06	5.9786E-06	6.7177E-06	5.4088E-06	4.4710E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.4554E-06	2.9626E-06	7.3164E-07	1.7777E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5160E-06	6.0516E-06	6.8053E-06	5.4789E-06	4.4999E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.5802E-06	2.9266E-06	7.1807E-07	1.7556E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7749E-06	6.4802E-06	7.4590E-06	5.9145E-06	4.8890E-06	5.6003E-06	6.2303E-06	5.6337E-06	4.8851E-06	3.2280E-06	7.9850E-07	1.9419E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8950E-06	6.8526E-06	7.7344E-06	6.2143E-06	5.1598E-06	5.9105E-06	6.4968E-06	5.9862E-06	5.1742E-06	3.3371E-06	8.2677E-07	2.0030E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1523E-06	7.3785E-06	8.3409E-06	6.7152E-06	5.4870E-06	6.2852E-06	6.9682E-06	6.3061E-06	5.5151E-06	3.5538E-06	8.8554E-07	2.1579E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2d_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2448E-06	7.5782E-06	8.6283E-06	6.8524E-06	5.6790E-06	6.5220E-06	7.2040E-06	6.5515E-06	5.7267E-06	3.6979E-06	9.1963E-07	2.2676E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1644E-06	7.3953E-06	8.3227E-06	6.6755E-06	5.5472E-06	6.3542E-06	6.9654E-06	6.3514E-06	5.5781E-06	3.6108E-06	8.9785E-07	2.1893E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9658E-06	6.9341E-06	7.9321E-06	6.2858E-06	5.2139E-06	5.9724E-06	6.6443E-06	6.0550E-06	5.2444E-06	3.4361E-06	8.5350E-07	2.0733E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9635E-06	6.8876E-06	7.8850E-06	6.3287E-06	5.2139E-06	5.8955E-06	6.5588E-06	5.9757E-06	5.2625E-06	3.3896E-06	8.4151E-07	2.0867E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.4236E-06	7.3759E-06	5.8285E-06	4.8179E-06	5.5188E-06	6.1689E-06	5.6145E-06	4.9566E-06	3.1689E-06	7.9957E-07	1.9549E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.3090E-06	7.1830E-06	5.7735E-06	4.7954E-06	5.4930E-06	6.0031E-06	5.4333E-06	4.7808E-06	3.0810E-06	7.6272E-07	1.9023E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5266E-06	5.8693E-06	6.7328E-06	5.3859E-06	4.5068E-06	5.1311E-06	5.7083E-06	5.2201E-06	4.5245E-06	2.9266E-06	7.3899E-07	1.8067E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5004E-06	5.9786E-06	6.7177E-06	5.4088E-06	4.4710E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.4554E-06	2.9626E-06	7.3164E-07	1.7777E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5160E-06	6.0516E-06	6.8053E-06	5.4789E-06	4.4999E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.5802E-06	2.9266E-06	7.1807E-07	1.7556E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7749E-06	6.4802E-06	7.4590E-06	5.9145E-06	4.8890E-06	5.6003E-06	6.2303E-06	5.6337E-06	4.8851E-06	3.2280E-06	7.9850E-07	1.9419E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8950E-06	6.8526E-06	7.7344E-06	6.2143E-06	5.1598E-06	5.9105E-06	6.4968E-06	5.9862E-06	5.1742E-06	3.3371E-06	8.2677E-07	2.0030E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1523E-06	7.3785E-06	8.3409E-06	6.7152E-06	5.4870E-06	6.2852E-06	6.9682E-06	6.3061E-06	5.5151E-06	3.5538E-06	8.8554E-07	2.1579E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2e_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2448E-06	7.5782E-06	8.6283E-06	6.8524E-06	5.6790E-06	6.5220E-06	7.2040E-06	6.5515E-06	5.7267E-06	3.6979E-06	9.1963E-07	2.2676E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1352E-06	7.3766E-06	8.2758E-06	6.6371E-06	5.4863E-06	6.2844E-06	6.9387E-06	6.3452E-06	5.5185E-06	3.5818E-06	8.9305E-07	2.1774E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9304E-06	6.9198E-06	7.8648E-06	6.3102E-06	5.1286E-06	5.8747E-06	6.5994E-06	6.0349E-06	5.2459E-06	3.3919E-06	8.4524E-07	2.0665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9570E-06	6.8450E-06	7.7815E-06	6.2248E-06	5.1455E-06	5.9129E-06	6.5085E-06	5.9518E-06	5.1544E-06	3.3425E-06	8.3274E-07	2.0287E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7038E-06	6.3737E-06	7.2521E-06	5.8260E-06	4.8358E-06	5.5164E-06	6.0788E-06	5.5339E-06	4.8042E-06	3.1123E-06	7.8959E-07	1.8937E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6391E-06	6.2234E-06	7.0842E-06	5.6929E-06	4.7058E-06	5.3904E-06	5.9077E-06	5.3756E-06	4.6649E-06	3.0208E-06	7.5142E-07	1.8763E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5132E-06	5.7937E-06	6.6033E-06	5.2823E-06	4.3664E-06	5.0016E-06	5.4649E-06	4.9975E-06	4.3582E-06	2.8363E-06	7.2620E-07	1.7755E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4973E-06	5.7237E-06	6.5678E-06	5.2539E-06	4.3429E-06	4.9747E-06	5.5694E-06	5.0930E-06	4.4136E-06	2.8723E-06	7.1354E-07	1.7445E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4973E-06	5.9307E-06	6.6093E-06	5.3200E-06	4.3704E-06	5.0062E-06	5.5694E-06	5.0930E-06	4.4136E-06	2.8363E-06	7.0454E-07	1.7336E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7061E-06	6.4164E-06	7.3438E-06	5.8746E-06	4.7779E-06	5.4730E-06	6.1215E-06	5.5679E-06	4.8556E-06	3.1430E-06	7.8575E-07	1.9211E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8755E-06	6.6812E-06	7.6352E-06	6.1334E-06	5.0699E-06	5.8075E-06	6.4013E-06	5.8271E-06	5.0583E-06	3.2770E-06	8.1546E-07	1.9846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1079E-06	7.3368E-06	8.2594E-06	6.6276E-06	5.4088E-06	6.1957E-06	6.8927E-06	6.2618E-06	5.4428E-06	3.5187E-06	8.7966E-07	2.1436E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2155E-06	7.5478E-06	8.5716E-06	6.8028E-06	5.6233E-06	6.4569E-06	7.1625E-06	6.5328E-06	5.6674E-06	3.6688E-06	9.1481E-07	2.2307E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1644E-06	7.3953E-06	8.3227E-06	6.6755E-06	5.5472E-06	6.3542E-06	6.9654E-06	6.3514E-06	5.5781E-06	3.6108E-06	8.9785E-07	2.1893E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9658E-06	6.9341E-06	7.9321E-06	6.2858E-06	5.2139E-06	5.9724E-06	6.6443E-06	6.0550E-06	5.2444E-06	3.4361E-06	8.5350E-07	2.0733E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9635E-06	6.8876E-06	7.8850E-06	6.3287E-06	5.2139E-06	5.8955E-06	6.5588E-06	5.9757E-06	5.2625E-06	3.3896E-06	8.4151E-07	2.0867E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.4236E-06	7.3759E-06	5.8285E-06	4.8179E-06	5.5188E-06	6.1689E-06	5.6145E-06	4.9566E-06	3.1689E-06	7.9957E-07	1.9549E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7123E-06	6.3090E-06	7.1830E-06	5.7735E-06	4.7954E-06	5.4930E-06	6.0031E-06	5.4333E-06	4.7808E-06	3.0810E-06	7.6272E-07	1.9023E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5266E-06	5.8693E-06	6.7328E-06	5.3859E-06	4.5068E-06	5.1311E-06	5.7083E-06	5.2201E-06	4.5245E-06	2.9266E-06	7.3899E-07	1.8067E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5004E-06	5.9786E-06	6.7177E-06	5.4088E-06	4.4710E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.4554E-06	2.9626E-06	7.3164E-07	1.7777E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5160E-06	6.0516E-06	6.8053E-06	5.4789E-06	4.4999E-06	5.1214E-06	5.6976E-06	5.1765E-06	4.5802E-06	2.9266E-06	7.1807E-07	1.7556E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7749E-06	6.4802E-06	7.4590E-06	5.9145E-06	4.8890E-06	5.6003E-06	6.2303E-06	5.6337E-06	4.8851E-06	3.2280E-06	7.9850E-07	1.9419E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8950E-06	6.8526E-06	7.7344E-06	6.2143E-06	5.1598E-06	5.9105E-06	6.4968E-06	5.9862E-06	5.1742E-06	3.3371E-06	8.2677E-07	2.0030E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1523E-06	7.3785E-06	8.3409E-06	6.7152E-06	5.4870E-06	6.2852E-06	6.9682E-06	6.3061E-06	5.5151E-06	3.5538E-06	8.8554E-07	2.1579E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R2f_5028	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2448E-06	7.5782E-06	8.6283E-06	6.8524E-06	5.6790E-06	6.5220E-06	7.2040E-06	6.5515E-06	5.7267E-06	3.6979E-06	9.1963E-07	2.2676E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1352E-06	7.3766E-06	8.2758E-06	6.6371E-06	5.4863E-06	6.2844E-06	6.9387E-06	6.3452E-06	5.5185E-06	3.5818E-06	8.9305E-07	2.1774E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9304E-06	6.9198E-06	7.8648E-06	6.3102E-06	5.1286E-06	5.8747E-06	6.5994E-06	6.0349E-06	5.2459E-06	3.3919E-06	8.4524E-07	2.0665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9570E-06	6.8450E-06	7.7815E-06	6.2248E-06	5.1455E-06	5.9129E-06	6.5085E-06	5.9518E-06	5.1544E-06	3.3425E-06	8.3274E-07	2.0287E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7038E-06	6.3737E-06	7.2521E-06	5.8260E-06	4.8358E-06	5.5164E-06	6.0788E-06	5.5339E-06	4.8042E-06	3.1123E-06	7.8959E-07	1.8937E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6391E-06	6.2234E-06	7.0842E-06	5.6929E-06	4.7058E-06	5.3904E-06	5.9077E-06	5.3756E-06	4.6649E-06	3.0208E-06	7.5142E-07	1.8763E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5132E-06	5.7937E-06	6.6033E-06	5.2823E-06	4.3664E-06	5.0016E-06	5.4649E-06	4.9975E-06	4.3582E-06	2.8363E-06	7.2620E-07	1.7755E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4973E-06	5.7237E-06	6.5678E-06	5.2539E-06	4.3429E-06	4.9747E-06	5.5694E-06	5.0930E-06	4.4136E-06	2.8723E-06	7.1354E-07	1.7445E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4973E-06	5.9307E-06	6.6093E-06	5.3200E-06	4.3704E-06	5.0062E-06	5.5694E-06	5.0930E-06	4.4136E-06	2.8363E-06	7.0454E-07	1.7336E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7061E-06	6.4164E-06	7.3438E-06	5.8746E-06	4.7779E-06	5.4730E-06	6.1215E-06	5.5679E-06	4.8556E-06	3.1430E-06	7.8575E-07	1.9211E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8755E-06	6.6812E-06	7.6352E-06	6.1334E-06	5.0699E-06	5.8075E-06	6.4013E-06	5.8271E-06	5.0583E-06	3.2770E-06	8.1546E-07	1.9846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1079E-06	7.3368E-06	8.2594E-06	6.6276E-06	5.4088E-06	6.1957E-06	6.8927E-06	6.2618E-06	5.4428E-06	3.5187E-06	8.7966E-07	2.1436E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R3_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2155E-06	7.5478E-06	8.5716E-06	6.8028E-06	5.6233E-06	6.4569E-06	7.1625E-06	6.5328E-06	5.6674E-06	3.6688E-06	9.1481E-07	2.2307E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1352E-06	7.3766E-06	8.2758E-06	6.6371E-06	5.4863E-06	6.2844E-06	6.9387E-06	6.3452E-06	5.5185E-06	3.5818E-06	8.9305E-07	2.1774E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9304E-06	6.9198E-06	7.8648E-06	6.3102E-06	5.1286E-06	5.8747E-06	6.5994E-06	6.0349E-06	5.2459E-06	3.3919E-06	8.4524E-07	2.0665E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.9570E-06	6.8450E-06	7.7815E-06	6.2248E-06	5.1455E-06	5.9129E-06	6.5085E-06	5.9518E-06	5.1544E-06	3.3425E-06	8.3274E-07	2.0287E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7038E-06	6.3737E-06	7.2521E-06	5.8260E-06	4.8358E-06	5.5164E-06	6.0788E-06	5.5339E-06	4.8042E-06	3.1123E-06	7.8959E-07	1.8937E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.6391E-06	6.2234E-06	7.0842E-06	5.6929E-06	4.7058E-06	5.3904E-06	5.9077E-06	5.3756E-06	4.6649E-06	3.0208E-06	7.5142E-07	1.8763E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	R4_5027	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.5132E-06	5.7937E-06	6.6033E-06	5.2823E-06	4.3664E-06	5.0016E-06	5.4649E-06	4.9975E-06	4.3582E-06	2.8363E-06	7.2620E-07	1.7755E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4973E-06	5.7237E-06	6.5678E-06	5.2539E-06	4.3429E-06	4.9747E-06	5.5694E-06	5.0930E-06	4.4136E-06	2.8723E-06	7.1354E-07	1.7445E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.4973E-06	5.9307E-06	6.6093E-06	5.3200E-06	4.3704E-06	5.0062E-06	5.5694E-06	5.0930E-06	4.4136E-06	2.8363E-06	7.0454E-07	1.7336E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.7061E-06	6.4164E-06	7.3438E-06	5.8746E-06	4.7779E-06	5.4730E-06	6.1215E-06	5.5679E-06	4.8556E-06	3.1430E-06	7.8575E-07	1.9211E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.8755E-06	6.6812E-06	7.6352E-06	6.1334E-06	5.0699E-06	5.8075E-06	6.4013E-06	5.8271E-06	5.0583E-06	3.2770E-06	8.1546E-07	1.9846E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.1079E-06	7.3368E-06	8.2594E-06	6.6276E-06	5.4088E-06	6.1957E-06	6.8927E-06	6.2618E-06	5.4428E-06	3.5187E-06	8.7966E-07	2.1436E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	R4_5027	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.2155E-06	7.5478E-06	8.5716E-06	6.8028E-06	5.6233E-06	6.4569E-06	7.1625E-06	6.5328E-06	5.6674E-06	3.6688E-06	9.1481E-07	2.2307E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
NO2	TKO15	1	1.0872E-07	3.5727E-08	2.6365E-09	4.1185E-10	4.7644E-10	3.5460E-08	1.5240E-07	2.7155E-07	4.3902E-07	4.3225E-07	4.3921E-07	6.3279E-07	4.5304E-07	4.2313E-07	5.5873E-07	3.4807E-07	5.3061E-07	5.3628E-07	4.4920E-07	2.3928E-07	1.8599E-07	1.9256E-07	1.0272E-07	7.8103E-08
NO2	TKO15	2	1.0701E-07	3.5151E-08	2.4885E-09	3.7807E-10	4.3590E-10	3.5002E-08	1.4920E-07	2.6351E-07	4.2419E-07	4.1899E-07	4.2615E-07	6.1222E-07	4.3965E-07	4.1100E-07	5.4599E-07	3.4108E-07	5.1455E-07	5.2281E-07	4.3842E-07	2.3510E-07	1.8350E-07	1.8905E-07	1.0110E-07	7.6385E-08
NO2	TKO15	3	1.0717E-07	3.5174E-08	2.4885E-09	3.6843E-10	4.2400E-10	3.4916E-08	1.4896E-07	2.6517E-07	4.2400E-07	4.1832E-07	4.2492E-07	6.1446E-07	4.4034E-07	4.0850E-07	5.4237E-07	3.3909E-07	5.1455E-07	5.2015E-07	4.3553E-07	2.3556E-07	1.8299E-07	1.8833E-07	1.0088E-07	7.6165E-08
NO2	TKO15	4	1.0527E-07	3.4673E-08	2.3720E-09	3.3800E-10	3.8792E-10	3.4374E-08	1.4608E-07	2.5581E-07	4.0629E-07	4.0468E-07	4.0901E-07	5.8957E-07	4.2556E-07	3.9691E-07	5.2592E-07	3.3004E-07	4.9900E-07	5.0338E-07	4.2620E-07	2.3082E-07	1.7860E-07	1.8426E-07	9.9066E-08	7.4874E-08
NO2	TKO15	5	1.0466E-07	3.4482E-08	2.3301E-09	3.3065E-10	3.7812E-10	3.4236E-08	1.4533E-07	2.5389E-07	4.0539E-07	4.0042E-07	4.0715E-07	5.8666E-07	4.2285E-07	3.9433E-07	5.1757E-07	3.2549E-07	4.9119E-07	4.9553E-07	4.1653E-07	2.2892E-07	1.7692E-07	1.8261E-07	9.8390E-08	7.4320E-08
NO2	TKO15	6	1.0290E-07	3.4006E-08	2.2085E-09	3.0336E-10	3.4529E-10	3.3727E-08	1.4271E-07	2.4933E-07	3.9167E-07	3.8852E-07	3.9436E-07	5.6832E-07	4.1240E-07	3.8436E-07	4.9988E-07	3.2014E-07	4.7847E-07	4.8377E-07	4.1084E-07	2.2550E-07	1.7355E-07	1.7927E-07	9.7635E-08	7.2963E-08
NO2	TKO15	7	1.0290E-07	3.4036E-08	2.2264E-09	3.1006E-10	3.4975E-10	3.3906E-08	1.4249E-07	2.4942E-07	3.9092E-07	3.9180E-07	3.9516E-07	5.6790E-07	4.1219E-07	3.8306E-07	5.0617E-07	3.1910E-07	4.7504E-07	4.8649E-07	4.0900E-07	2.2446E-07	1.7450E-07	1.8019E-07	9.7505E-08	7.2698E-08
NO2	TKO15	8	1.0330E-07	3.4114E-08	2.2342E-09	3.1006E-10	3.5422E-10	3.3834E-08	1.4310E-07	2.4831E-07	3.9604E-07	3.9284E-07	3.9630E-07	5.7158E-07	4.1219E-07	3.8306E-07	5.0617E-07	3.1825E-07	4.7987E-07	4.8377E-07	4.0685E-07	2.2367E-07	1.7418E-07	1.7989E-07	9.7261E-08	7.2563E-08
NO2	TKO15	9	1.0522E-07	3.4630E-08	2.3551E-09	3.3486E-10	3.8468E-10	3.4506E-08	1.4584E-07	2.5776E-07	4.1006E-07	4.0658E-07	4.1362E-07	5.9262E-07	4.2772E-07	3.9794E-07	5.2733E-07	3.3066E-07	4.9679E-07	5.0682E-07	4.2518E-07	2.3035E-07	1.7959E-07	1.8487E-07	9.9330E-08	7.4539E-08
NO2	TKO15	10	1.0637E-07	3.5079E-08	2.4619E-09	3.5857E-10	4.1275E-10	3.4873E-08	1.4875E-07	2.6272E-07	4.1893E-07	4.1656E-07	4.2088E-07	6.0989E-07	4.3749E-07	4.0829E-07	5.4331E-07	3.3945E-07	5.1004E-07	5.1516E-07	4.3195E-07	2.3251E-07	1.8168E-07	1.8724E-07	1.0042E-07	7.5795E-08
NO2	TKO15	11	1.0856E-07	3.5615E-08	2.5980E-09	3.9929E-10	4.6159E-10	3.5456E-08	1.5188E-07	2.7226E-07	4.3799E-07	4.3217E-07	4.3696E-07	6.3482E-07	4.5316E-07	4.2080E-07	5.5880E-07	3.4689E-07	5.2735E-07	5.3182E-07	4.4617E-07	2.3808E-07	1.8626E-07	1.9172E-07	1.0230E-07	7.7509E-08
NO2	TKO15	12	1.0956E-07	3.5937E-08	2.6984E-09	4.3287E-10	5.0092E-10	3.5717E-08	1.5388E-07	2.7581E-07	4.4495E-07	4.4043E-07	4.4470E-07	6.4563E-07	4.5835E-07	4.2873E-07	5.6895E-07	3.5313E-07	5.3894E-07	5.4294E-07	4.5442E-07	2.4213E-07	1.8844E-07	1.9464E-07	1.0347E-07	7.8848E-08
NO2	TKO16	1	1.2066E-07	3.7207E-08	5.5031E-09	6.3687E-08	3.7036E-08	4.0554E-08	1.1038E-07	2.7115E-07	3.2607E-07	4.5862E-07	3.3813E-07	2.8496E-07	2.3230E-07	2.4750E-07	4.7330E-07	3.2626E-07	4.4037E-07	2.4965E-07	3.3054E-07	2.9692E-07	2.5356E-07	1.1988E-07	1.4504E-07	6.3988E-08
NO2	TKO16	2	1.1718E-07	3.6547E-08	5.1203E-09	6.2346E-08	3.5569E-08	3.9748E-08	1.0560E-07	2.5809E-07	3.1184E-07	4.4136E-07	3.2406E-07	2.7421E-07	2.2404E-07	2.3891E-07	4.6033E-07	3.1769E-07	4.2359E-07	2.4205E-07	3.2137E-07	2.8759E-07	2.4875E-07	1.1725E-07	1.4174E-07	6.2377E-08
NO2	TKO16	3	1.1753E-07	3.6571E-08	5.1203E-09	6.2019E-08	3.5300E-08	3.9610E-08	1.0523E-07	2.6078E-07	3.1149E-07	4.4034E-07	3.2279E-07	2.7535E-07	2.2442E-07	2.3698E-07	4.5650E-07	3.1516E-07	4.2359E-07	2.4063E-07	3.1874E-07	2.8864E-07	2.4775E-07	1.1669E-07	1.4121E-07	6.2139E-08
NO2	TKO16	4	1.1374E-07	3.6007E-08	4.8113E-09	6.0416E-08	3.3685E-08	3.8733E-08	1.0102E-07	2.4587E-07	2.9475E-07	4.2282E-07	3.0636E-07	2.6250E-07	2.1550E-07	2.2897E-07	4.3984E-07	3.0411E-07	4.0734E-07	2.3116E-07	3.1117E-07	2.7815E-07	2.3950E-07	1.1372E-07	1.3757E-07	6.0927E-08
NO2	TKO16	5	1.1249E-07	3.5790E-08	4.6976E-09	5.9908E-08	3.3166E-08	3.8500E-08	9.9915E-08	2.4286E-07	2.9397E-07	4.1734E-07	3.0427E-07	2.6106E-07	2.1386E-07	2.2718E-07	4.3143E-07	2.9867E-07	3.9924E-07	2.2718E-07	3.0307E-07	2.7407E-07	2.3646E-07	1.1248E-07	1.3620E-07	6.0463E-08
NO2	TKO16	6	1.0915E-07	3.5259E-08	4.3973E-09	5.8324E-08	3.1609E-08	3.7712E-08	9.6208E-08	2.3570E-07	2.8125E-07	4.0218E-07	2.9123E-07	2.5193E-07	2.0777E-07	2.2048E-07	4.1367E-07	2.9220E-07	3.8636E-07	2.2094E-07	2.9830E-07	2.6663E-07	2.3016E-07	1.1014E-07	1.3469E-07	5.9199E-08
NO2	TKO16	7	1.0928E-07	3.5300E-08	4.4628E-09	5.8541E-08	3.1711E-08	3.8014E-08	9.5908E-08	2.3585E-07	2.8067E-07	4.0632E-07	2.9236E-07	2.5198E-07	2.0782E-07	2.1964E-07	4.2010E-07	2.9099E-07	3.8276E-07	2.2265E-07	2.9696E-07	2.6444E-07	2.3190E-07	1.1081E-07	1.3444E-07	5.8978E-08
NO2	TKO16	8	1.0999E-07	3.5390E-08	4.4757E-09	5.8662E-08	3.1951E-08	3.7897E-08	9.6824E-08	2.3409E-07	2.8539E-07	4.0781E-07	2.9356E-07	2.5387E-07	2.0782E-07	2.1964E-07	4.2010E-07	2.9000E-07	3.8782E-07	2.2094E-07	2.9520E-07	2.6271E-07	2.3135E-07	1.1057E-07	1.3387E-07	5.8875E-08
NO2	TKO16	9	1.1370E-07	3.5962E-08	4.7734E-09	6.0268E-08	3.3531E-08	3.8933E-08	1.0070E-07	2.4906E-07	2.9845E-07	4.2543E-07	3.1122E-07	2.6454E-07	2.1710E-07	2.2994E-07	4.4164E-07	3.0513E-07	4.0532E-07	2.3335E-07	3.1033E-07	2.7721E-07	2.4152E-07	1.1418E-07	1.3810E-07	6.0625E-08
NO2	TKO16	10	1.1586E-07	3.6458E-08	5.0469E-09	6.1564E-08	3.4810E-08	3.9535E-08	1.0480E-07	2.5673E-07	3.0658E-07	4.3813E-07	3.1868E-07	2.7307E-07	2.2272E-07	2.3700E-07	4.5761E-07	3.1576E-07	4.1887E-07	2.3754E-07	3.1572E-07	2.8203E-07	2.4533E-07	1.1583E-07	1.4028E-07	6.1757E-08
NO2	TKO16	11	1.2016E-07	3.7064E-08	5.3784E-09	6.3684E-08	3.6965E-08	4.0465E-08	1.0939E-07	2.7198E-07	3.2459E-07	4.5834E-07	3.3522E-07	2.8571E-07	2.3223E-07	2.4563E-07	4.7345E-07	3.2469E-07	4.3683E-07	2.4661E-07	3.2751E-07	2.9422E-07	2.5390E-07	1.1912E-07	1.4407E-07	6.3371E-08
NO2	TKO16	12	1.2241E-07	3.7454E-08	5.6840E-09	6.4441E-08	3.7890E-08	4.1025E-08	1.1260E-07	2.7799E-07	3.3170E-07	4.6948E-07	3.4391E-07	2.9182E-07	2.3546E-07	2.5132E-07	4.8368E-07	3.3247E-07	4.4887E-07	2.5304E-07	3.3469E-07	3.0329E-07	2.5828E-07	1.2144E-07	1.4652E-07	6.4762E-08
NO2	TKO17	1	8.3766E-09	1.0485E-10	0.0000E+00	0.0000E+00	4.2963E-10	3.5717E-10	9.6355E-08	1.6886E-07	1.4635E-07	3.0011E-07	2.6087E-07	1.9218E-07	2.7571E-07	1.9729E-07	3.2283E-07	2.3817E-07	2.5966E-07	2.1368E-07	1.7817E-07	1.4718E-07	9.7008E-08	7.1530E-08	5.6614E-08	3.3393E-08
NO2	TKO17	2	8.2412E-09	9.6991E-11	0.0000E+00	0.0000E+00	3.9064E-10	3.2576E-10	9.4793E-08	1.6458E-07	1.4277E-07	2.9038E-07	2.5374E-07	1.8731E-07	2.6807E-07	1.9252E-07	3.1592E-07	2.3325E-07	2.5235E-07	2.0963E-07	1.7516E-07	1.4505E-07	9.5983E-08	7.0657E-08	5.5814E-08	3.2851E-08
NO2	TKO17	3	8.2513E-09	9.6991E-11	0.0000E+00	0.0000E+00	3.7866E-10	3.1632E-10	9.4676E-08	1.6546E-07	1.4270E-07	2.8987E-07	2.5305E-07	1.8781E-07	2.6846E-07	1.9152E-07	3.1397E-07	2.3182E-07	2.5235E-07	2.0873E-07	1.7436E-07	1.4530E-07	9.5771E-08	7.0485E-08	5.5705E-08	3.2775E-08
NO2	TKO17	4	8.1047E-09	9.0500E-11	0.0000E+00	0.0000E+00	3.4468E-10	2.8492E-10	9.3267E-08	1.6048E-07	1.3846E-07	2.7984E-07	2.4441E-07	1.8194E-07	2.6001E-07	1.8699E-07	3.0509E-07	2.2550E-07	2.4529E-07	2.0364E-07	1.7176E-07	1.4290E-07	9.3991E-08	6.9469E-08	5.4815E-08	3.2382E-08
NO2	TKO17	5	8.0613E-09	9.0500E-11	0.0000E+00	0.0000E+00	3.3368E-10	2.8042E-10	9.2911E-08	1.5946E-07	1.3824E-07	2.7669E-07	2.4344E-07	1.8125E-07	2.5843E-07	1.8599E-07	3.0062E-07	2.2230E-07	2.4183E-07	2.0134E-07	1.6908E-07	1.4199E-07	9.3294E-08	6.9071E-08	5.4487E-08	3.2201E-08
NO2	TKO17	6	7.9300E-09	8.5375E-11	0.0000E+00	0.0000E+00	3.0197E-10	2.5494E-10	9.1645E-08	1.5703E-07	1.3495E-07	2.6797E-07	2.3650E-07	1.7694E-07	2.5249E-07	1.8210E-07	2.9108E-07	2.1861E-07	2.3608E-07	1.9781E-07	1.6753E-07	1.4028E-07	9.1930E-08	6.8239E-08	5.4121E-08	3.1788E-08
NO2	TKO17	7	7.9350E-09	8.5375E-11	0.0000E+00	0.0000E+00	3.0698E-10	2.6747E-10	9.1539E-08	1.5708E-07	1.3477E-07	2.7034E-07	2.3691E-07	1.7687E-07	2.5237E-07	1.8161E-07	2.9447E-07	2.1787E-07	2.3459E-07	1.9870E-07	1.6698E-07	1.3977E-07	9.2310E-08	6.8473E-08	5.4058E-08	3.1707E-08
NO2	TKO17	8	7.9639E-09	8.9134E-11	0.0000E+00	0.0000E+00	3.1200E-10	2.6246E-10	9.1832E-08	1.5649E-07	1.3599E-07	2.7114E-07	2.3755E-07	1.7773E-07	2.5237E-07	1.8161E-07	2.9447E-07	2.1727E-07	2.3673E-07	1.9781E-07	1.6640E-07	1.3937E-07	9.2179E-08	6.8406E-08	5.3943E-08	3.1675E-08
NO2	TKO17	9	8.1095E-09	8.9134E-11	0.0000E+00	0.0000E+00	3.4240E-10	2.9577E-10	9.3162E-08	1.6152E-07	1.3935E-07	2.8121E-07	2.4695E-07	1.8268E-07	2.6124E-07	1.8742E-07	3.0589E-07	2.2596E-07	2.4436E-07	2.0478E-07	1.7150E-07	1.4269E-07	9.4385E-08	6.9633E-08	5.4943E-08	3.2283E-08
NO2	TKO17	10	8.1877E-09	9.4259E-11	0.0000E+00	0.0000E+00	3.6877E-10	3.1249E-10	9.4569E-08	1.6416E-07	1.4147E-07	2.8859E-07	2.5090E-07	1.8674E-07	2.6680E-07	1.9145E-07	3.1449E-07	2.3212E-07	2.5031E-07	2.0723E-07	1.7335E-07	1.4378E-07	9.5251E-08	7.0208E-08	5.5470E-08	3.2653E-08
NO2	TKO17	11	8.3565E-09	1.0075E-10	0.0000E+00	0.0000E+00	4.1570E-10	3.4582E-10	9.6092E-08	1.6924E-07	1.4606E-07	3.0006E-07	2.5962E-07	1.9264E-07	2.7578E-07	1.9635E-07	3.2285E-07	2.3730E-07	2.5814E-07	2.1225E-07	1.7732E-07	1.4656E-07	9.7111E-08	7.1317E-08	5.6393E-08	3.3196E-08
NO2	TKO17	12	8.4480E-09	1.0997E-10	0.0000E+00	0.0000E+00	4.5196E-10	3.7563E-10	9.7084E-08	1.7113E-07	1.4779E-07	3.0614E-07	2.6387E-07	1.9525E-07	2.7871E-07	1.9948E-07	3.2833E-07	2.4174E-07	2.6341E-07	2.1572E-07	1.7961E-07	1.4859E-07	9.8011E-08	7.2038E-08	5.6983E-08	3.3640E-08
NO2	TKO19	1	2.4219E-08	5.2447E-08	1.8788E-08	2.8147E-08	1.9457E-08	1.5676E-07	2.3494E-07	2.1970E-06	4.1246E-06	6.1662E-06	6.7063E-06	5.8220E-06	5.2975E-06	5.6301E-06	6.0377E-06	5.8057E-06	5.2763E-06	4.4140E-06	2.7973E-06	4.9372E-07	2.3994E-07	9.1420E-08	8.5125E-08	1.2603E-08
NO2	TKO19	2	2.3210E-08	5.1081E-08	1.8052E-08	2.7287E-08	1.8810E-08	1.5430E-07	2.2788E-07	2.1135E-06	3.9821E-06	5.9651E-06	6.4941E-06	5.6374E-06	5.1239E-06	5.4553E-06	5.8973E-06	5.6699E-06	5.1138E-06	4.2965E-06	2.7211E-06	4.7941E-07	2.3582E-07	8.9421E-08	8.2762E-08	1.2005E-08
NO2	TKO19	3	2.3312E-08	5.1146E-08	1.8052E-08	2.7076E-08	1.8687E-08	1.5381E-07	2.2739E-07	2.1309E-06	3.9804E-06	5.9549E-06	6.4736E-06	5.6575E-06	5.1328E-06	5.4190E-06	5.8580E-06	5.6312E-06	5.1138E-06	4.2731E-06	2.7006E-06	4.8101E-07	2.3499E-07	8.9010E-08	8.2431E-08	1.1920E-08
NO2	TKO19	4	2.2230E-08	4.9979E-08	1.7447E-08	2.6057E-08	1.7959E-08	1.5085E-07	2.2116E-07	2.0335E-06	3.8089E-06	5.7469E-06	6.2138E-06	5.4343E-06	4.9422E-06	5.2528E-06	5.6781E-06	5.4551E-06	4.9559E-06	4.1275E-06	2.6345E-06	4.6483E-07	2.2789E-07	8.6738E-08	7.9816E-08	1.1469E-08
NO2	TKO19	5	2.1971E-08	4.9538E-08	1.7199E-08	2.5739E-08	1.7731E-08	1.5011E-07	2.1958E-07	2.0134E-06	3.8004E-06	5.6820E-06	6.1844E-06	5.4084E-06	4.9065E-06	5.2149E-06	5.5868E-06	5.3666E-06	4.8771E-06	4.0589E-06	2.5657E-06	4.5835E-07	2.2521E-07	8.5858E-08	7.8846E-08	1.1294E-08
NO2	TKO19	6	2.1105E-08	4.8458E-08	1.6537E-08	2.4738E-08	1.7024E-08	1.4733E-07	2.1402E-07	1.9661E-06	3.6675E-06	5.4997E-06	5.9746E-06	5.2441E-06	4.7714E-06	5.0714E-06	5.3918E-06	5.2636E-06	4.7477E-06	3.9556E-06	2.5249E-06	4.4673E-07	2.1979E-07	8.4025E-08	7.7770E-08	1.0850E-08
NO2	TKO19	7	2.1141E-08	4.8539E-08	1.6630E-08	2.4890E-08	1.7078E-08	1.4830E-07	2.1354E-07	1.9665E-06	3.6599E-06	5.5493E-06	5.9870E-06	5.2404E-06	4.7686E-06	5.0527E-06	5.4613E-06	5.2430E-06	4.7124E-06	3.9798E-06	2.5123E-06	4.4322E-07	2.2131E-07	8.4581E-08	7.7591E-08	1.0769E-08
NO2	TKO19	8	2.1288E-08	4.8697E-08	1.6680E-08	2.4964E-08	1.7187E-08	1.4794E-07	2.1484E-07	1.9551E-06	3.7095E-06	5.5659E-06	6.0061E-06	5.2734E-06	4.7686E-06	5.0527E-06	5.4613E-06	5.2261E-06	4.7620E-06	3.9556E-06	2.4967E-06	4.4052E-07	2.2081E-07	8.4420E-08	7.7231E-08	1.0728E-08
NO2	TKO19	9	2.2210E-08	4.9873E-08	1.7349E-08	2.5959E-08	1.7891E-08	1.5158E-07	2.2062E-07	2.0538E-06	3.8451E-06	5.7750E-06	6.2890E-06	5.4620E-06	4.9698E-06	5.2666E-06	5.6930E-06	5.4677E-06	4.9334E-06	4.1572E-06	2.6267E-06	4.6329E-07	2.2953E-07	8.7114E-08	8.0150E-08	1.1351E-08
NO2	TKO19	10	2.2822E-08	5.0924E-08	1.7934E-08	2.6781E-08	1.8470E-08	1.5356E-07	2.2693E-07	2.1053E-06	3.9309E-06	5.9283E-06	6.4081E-06	5.6166E-06	5.0957E-06	5.4159E-06	5.8682E-06	5.6388E-06	5.0680E-06	4.2302E-06	2.6753E-06	4.7073E-07	2.3290E-07	8.8366E-08	8.1746E-08	1.1780E-08
NO2	TKO19	11	2.4037E-08	5.2145E-08	1.8647E-08	2.8125E-08	1.9426E-08	1.5673E-07	2.3361E-07	2.2045E-06	4.1153E-06	6.1663E-06	6.6714E-06	5.8404E-06	5.2991E-06	5.5964E-06	6.0387E-06	5.7833E-06	5.2436E-06	4.3755E-06	2.7762E-06	4.8978E-07	2.4031E-07	9.0866E-08	8.4446E-08	1.2382E-08
NO2	TKO19	12	2.4668E-08	5.2944E-08	1.9079E-08	2.8638E-08	1.9837E-08	1.5819E-07	2.3815E-07	2.2408E-06	4.1823E-06	6.2901E-06	6.7960E-06	5.9370E-06	5.3657E-06	5.7105E-06	6.1492E-06	5.9044E-06	5.3607E-06	4.4718E-06	2.8346E-06	5.0334E-07	2.4385E-07	9.2544E-08	8.6191E-08	1.2848E-08
NO2	TKO20	1	1.2094E-07	7.8442E-08	2.8545E-09	9.2772E-08	3.4410E-08	6.4982E-08	1.7456E-07	2.7080E-07	6.9874E-07	8.7345E-07	6.6549E-07	7.4232E-07	5.1601E-07	5.2674E-07	8.3668E-07	4.7843E-07	6.3236E-07	6.9182E-07	6.6956E-07	2.2207E-07	1.2697E-07	8.9893E-08	7.2814E-08	4.9162E-08
NO2	TKO20	2	1.1853E-07	7.7178E-08	2.5844E-09	9.0532E-08	3.3086E-08	6.3893E-08	1.6891E-07	2.5995E-07	6.7012E-07	8.3925E-07	6.3753E-07	7.1236E-07	4.9586E-07	5.0735E-07	8.1208E-07	4.6519E-07	6.0841E-07	6.6871E-07	6.4795E-07	2.1600E-07	1.2513E-07	8.8042E-08	7.1701E-08	4.7690E-08
NO2	TKO20	3	1.1878E-07	7.7227E-08	2.5844E-09	8.9957E-08	3.2826E-08	6.3693E-08	1.6849E-07	2.6207E-07	6.6971E-07	8.3744E-07	6.3478E-07	7.1563E-07	4.9693E-07	5.0330E-07	8.0515E-07	4.6142E-07	6.0841E-07	6.6384E-07	6.4219E-07	2.1669E-07	1.2471E-07	8.7670E-08	7.1480E-08	4.7480E-08
NO2	TKO20	4	1.1618E-07	7.6140E-08	2.3782E-09	8.7260E-08	3.1338E-08	6.2410E-08	1.6349E-07	2.4967E-07	6.3607E-07	8.0229E-07	6.0124E-07	6.7969E-07	4.7491E-07	4.8493E-07	7.7357E-07	4.4446E-07	5.8531E-07	6.3492E-07	6.2345E-07	2.0976E-07	1.2156E-07	8.5546E-08	7.0222E-08	4.6372E-08
NO2	TKO20	5	1.1532E-07	7.5717E-08	2.2889E-09	8.6392E-08	3.0875E-08	6.2120E-08	1.6224E-07	2.4702E-07	6.3429E-07	7.9131E-07	5.9733E-07	6.7554E-07	4.7088E-07	4.8083E-07	7.5764E-07	4.3598E-07	5.7402E-07	6.2165E-07	6.0426E-07	2.0692E-07	1.2044E-07	8.4688E-08	6.9764E-08	4.5953E-08
NO2	TKO20	6	1.1305E-07	7.4653E-08	2.1130E-09	8.3707E-08	2.9433E-08	6.0975E-08	1.5775E-07	2.4113E-07	6.0832E-07	7.6075E-07	5.7059E-07	6.4920E-07	4.5541E-07	4.6501E-07	7.2371E-07	4.2601E-07	5.5530E-07	6.0135E-07	5.9276E-07	2.0214E-07	1.1808E-07	8.3045E-08	6.9259E-08	4.4803E-08
NO2	TKO20	7	1.1303E-07	7.4730E-08	2.1472E-09	8.4060E-08	2.9541E-08	6.1371E-08	1.5737E-07	2.4123E-07	6.0698E-07	7.6918E-07	5.7226E-07	6.4867E-07	4.5511E-07	4.6301E-07	7.3581E-07	4.2407E-07	5.5032E-07	6.0607E-07	5.8931E-07	2.0071E-07	1.1885E-07	8.3515E-08	6.9181E-08	4.4602E-08
NO2	TKO20	8	1.1354E-07	7.4907E-08	2.1513E-09	8.4280E-08	2.9758E-08	6.1209E-08	1.5844E-07	2.3983E-07	6.1653E-07	7.7189E-07	5.7481E-07	6.5400E-07	4.5511E-07	4.6301E-07	7.3581E-07	4.2247E-07	5.5731E-07	6.0135E-07	5.8499E-07	1.9959E-07	1.1850E-07	8.3377E-08	6.9013E-08	4.4510E-08
NO2	TKO20	9	1.1607E-07	7.6048E-08	2.3592E-09	8.7003E-08	3.1208E-08	6.2737E-08	1.6307E-07	2.5222E-07	6.4313E-07	8.0729E-07	6.1117E-07	6.8444E-07	4.7830E-07	4.8667E-07	7.7634E-07	4.4570E-07	5.8230E-07	6.4112E-07	6.2161E-07	2.0912E-07	1.2237E-07	8.5891E-08	7.0423E-08	4.6096E-08
NO2	TKO20	10	1.1769E-07	7.7037E-08	2.5268E-09	8.9204E-08	3.2384E-08	6.3546E-08	1.6809E-07	2.5875E-07	6.6004E-07	8.3296E-07	6.2624E-07	7.0902E-07	4.9265E-07	5.0295E-07	8.0699E-07	4.6215E-07	6.0173E-07	6.5529E-07	6.3499E-07	2.1215E-07	1.2373E-07	8.7046E-08	7.1140E-08	4.7035E-08
NO2	TKO20	11	1.2063E-07	7.8205E-08	2.7677E-09	9.2786E-08	3.4355E-08	6.4880E-08	1.7348E-07	2.7151E-07	6.9629E-07	8.7321E-07	6.6032E-07	7.4497E-07	5.1599E-07	5.2283E-07	8.3687E-07	4.7612E-07	6.2737E-07	6.8400E-07	6.6336E-07	2.2022E-07	1.2705E-07	8.9329E-08	7.2455E-08	4.8511E-08
NO2	TKO20	12	1.2223E-07	7.8910E-08	3.0034E-09	9.4044E-08	3.5185E-08	6.5621E-08	1.7718E-07	2.7656E-07	7.0998E-07	8.9483E-07	6.7716E-07	7.6113E-07	5.2387E-07	5.3567E-07	8.5621E-07	4.8790E-07	6.4467E-07	7.0342E-07	6.8019E-07	2.2629E-07	1.2883E-07	9.0988E-08	7.3383E-08	4.9773E-08
NO2	TKO21	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7103E-06	3.4221E-06	5.7700E-06	6.2854E-06	5.5274E-06	4.9450E-06	5.3117E-06	5.6605E-06	5.4048E-06	5.1465E-06	4.1038E-06	2.8084E-06	4.4869E-07	1.1158E-07	4.6631E-08	1.9214E-08	0.0000E+00
NO2	TKO21	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6466E-06	3.3039E-06	5.5810E-06	6.0860E-06	5.3514E-06	4.7825E-06	5.1461E-06	5.5285E-06	5.2780E-06	4.9886E-06	3.9949E-06	2.7321E-06	4.3581E-07	1.0931E-07	4.5274E-08	1.8599E-08	0.0000E+00
NO2	TKO21	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6599E-06	3.3025E-06	5.5714E-06	6.0667E-06	5.3706E-06	4.7909E-06	5.1118E-06	5.4916E-06	5.2419E-06	4.9886E-06	3.9732E-06	2.7116E-06	4.3726E-07	1.0885E-07	4.5001E-08	1.8515E-08	0.0000E+00
NO2	TKO21	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5854E-06	3.1600E-06	5.3757E-06	5.8223E-06	5.1575E-06	4.6121E-06	4.9541E-06	5.3222E-06	5.0774E-06	4.8352E-06	3.8379E-06	2.6454E-06	4.2265E-07	1.0489E-07	4.3422E-08	1.7824E-08	0.0000E+00
NO2	TKO21	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5701E-06	3.1530E-06	5.3147E-06	5.7947E-06	5.1328E-06	4.5784E-06	4.9181E-06	5.2365E-06	4.9949E-06	4.7587E-06	3.7744E-06	2.5765E-06	4.1678E-07	1.0339E-07	4.2797E-08	1.7562E-08	0.0000E+00
NO2	TKO21	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5338E-06	3.0425E-06	5.1431E-06	5.5972E-06	4.9760E-06	4.4519E-06	4.7821E-06	5.0528E-06	4.8987E-06	4.6328E-06	3.6784E-06	2.5356E-06	4.0620E-07	1.0031E-07	4.1494E-08	1.7266E-08	0.0000E+00
NO2	TKO21	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5341E-06	3.0362E-06	5.1898E-06	5.6088E-06	4.9724E-06	4.4492E-06	4.7643E-06	5.1183E-06	4.8794E-06	4.5986E-06	3.7009E-06	2.5230E-06	4.0301E-07	1.0117E-07	4.1855E-08	1.7215E-08	0.0000E+00
NO2	TKO21	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5254E-06	3.0774E-06	5.2054E-06	5.6269E-06	5.0039E-06	4.4492E-06	4.7643E-06	5.1183E-06	4.8636E-06	4.6468E-06	3.6784E-06	2.5074E-06	4.0056E-07	1.0088E-07	4.1737E-08	1.7117E-08	0.0000E+00
NO2	TKO21	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6010E-06	3.1900E-06	5.4022E-06	5.8930E-06	5.1840E-06	4.6380E-06	4.9672E-06	5.3363E-06	5.0892E-06	4.8133E-06	3.8656E-06	2.6376E-06	4.2119E-07	1.0579E-07	4.3665E-08	1.7914E-08	0.0000E+00
NO2	TKO21	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6405E-06	3.2614E-06	5.5464E-06	6.0052E-06	5.3317E-06	4.7561E-06	5.1089E-06	5.5012E-06	5.2490E-06	4.9442E-06	3.9334E-06	2.6863E-06	4.2797E-07	1.0771E-07	4.4585E-08	1.8343E-08	0.0000E+00
NO2	TKO21	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7162E-06	3.4145E-06	5.7702E-06	6.2528E-06	5.5452E-06	4.9467E-06	5.2799E-06	5.6615E-06	5.3839E-06	5.1148E-06	4.0682E-06	2.7873E-06	4.4518E-07	1.1183E-07	4.6313E-08	1.9057E-08	0.0000E+00
NO2	TKO21	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7437E-06	3.4700E-06	5.8864E-06	6.3697E-06	5.6370E-06	5.0090E-06	5.3880E-06	5.7655E-06	5.4969E-06	5.2286E-06	4.1576E-06	2.8458E-06	4.5739E-07	1.1377E-07	4.7423E-08	1.9494E-08	0.0000E+00
NO2	TKO22a	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2479E-07	2.2565E-06	2.4421E-06	2.3729E-06	2.1201E-06	2.1934E-06	2.3737E-06	2.3903E-06	2.5992E-06	1.8254E-06	1.4334E-06	7.0529E-07	2.7978E-07	1.1852E-07	4.6667E-08	0.0000E+00
NO2	TKO22a	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7929E-07	2.1210E-06	2.3003E-06	2.2344E-06	1.9927E-06	2.0685E-06	2.2718E-06	2.2867E-06	2.4522E-06	1.7371E-06	1.3626E-06	6.6790E-07	2.6923E-07	1.1218E-07	4.3919E-08	0.0000E+00
NO2	TKO22a	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7875E-07	2.1141E-06	2.2867E-06	2.2496E-06	1.9994E-06	2.0426E-06	2.2433E-06	2.2572E-06	2.4522E-06	1.7195E-06	1.3434E-06	6.7225E-07	2.6711E-07	1.1092E-07	4.3556E-08	0.0000E+00
NO2	TKO22a	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2399E-07	1.9737E-06	2.1130E-06	2.0817E-06	1.8589E-06	1.9232E-06	2.1122E-06	2.1230E-06	2.3097E-06	1.6092E-06	1.2817E-06	6.2976E-07	2.4871E-07	1.0351E-07	4.0468E-08	0.0000E+00
NO2	TKO22a	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9298E-06	2.0930E-06	2.0621E-06	1.8328E-06	1.8962E-06	2.0458E-06	2.0553E-06	2.2385E-06	1.5576E-06	1.2176E-06	6.1283E-07	2.4173E-07	1.0057E-07	3.9301E-08	0.0000E+00
NO2	TKO22a	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7867E-07	1.8065E-06	1.9525E-06	1.9381E-06	1.7329E-06	1.7928E-06	1.9039E-06	1.9766E-06	2.1213E-06	1.4795E-06	1.1797E-06	5.8204E-07	2.2740E-07	9.4487E-08	3.7981E-08	0.0000E+00
NO2	TKO22a	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7625E-07	1.8400E-06	1.9609E-06	1.9351E-06	1.7309E-06	1.7793E-06	1.9542E-06	1.9609E-06	2.0899E-06	1.4977E-06	1.1680E-06	5.7268E-07	2.3142E-07	9.6167E-08	3.7754E-08	0.0000E+00
NO2	TKO22a	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.9206E-07	1.8511E-06	1.9736E-06	1.9600E-06	1.7309E-06	1.7793E-06	1.9542E-06	1.9482E-06	2.1343E-06	1.4795E-06	1.1536E-06	5.6556E-07	2.3009E-07	9.5603E-08	3.7312E-08	0.0000E+00
NO2	TKO22a	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3556E-07	1.9926E-06	2.1631E-06	2.1024E-06	1.8789E-06	1.9332E-06	2.1232E-06	2.1322E-06	2.2894E-06	1.6319E-06	1.2747E-06	6.2557E-07	2.5291E-07	1.0465E-07	4.0882E-08	0.0000E+00
NO2	TKO22a	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6305E-07	2.0961E-06	2.2430E-06	2.2188E-06	1.9720E-06	2.0402E-06	2.2507E-06	2.2629E-06	2.4111E-06	1.6871E-06	1.3199E-06	6.4527E-07	2.6183E-07	1.0896E-07	4.2786E-08	0.0000E+00
NO2	TKO22a	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2200E-07	2.2569E-06	2.4189E-06	2.3870E-06	2.1215E-06	2.1696E-06	2.3746E-06	2.3733E-06	2.5699E-06	1.7966E-06	1.4137E-06	6.9517E-07	2.8100E-07	1.1707E-07	4.5976E-08	0.0000E+00
NO2	TKO22a	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4318E-07	2.3401E-06	2.5022E-06	2.4593E-06	2.1705E-06	2.2513E-06	2.4550E-06	2.4656E-06	2.6755E-06	1.8695E-06	1.4682E-06	7.3051E-07	2.9003E-07	1.2226E-07	4.7910E-08	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	TKO22b	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2479E-07	2.2621E-06	2.4136E-06	2.3729E-06	2.1201E-06	2.1934E-06	2.3737E-06	2.3903E-06	2.5992E-06	1.8254E-06	1.4334E-06	7.0529E-07	2.7978E-07	1.1693E-07	4.6667E-08	0.0000E+00
NO2	TKO22b	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7929E-07	2.1210E-06	2.3003E-06	2.2344E-06	1.9927E-06	2.0616E-06	2.2643E-06	2.2788E-06	2.4438E-06	1.7371E-06	1.3626E-06	6.6790E-07	2.6923E-07	1.1218E-07	4.3919E-08	0.0000E+00
NO2	TKO22b	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7875E-07	2.1068E-06	2.2867E-06	2.2496E-06	1.9927E-06	2.0351E-06	2.2351E-06	2.2489E-06	2.4522E-06	1.7136E-06	1.3434E-06	6.7225E-07	2.6711E-07	1.1092E-07	4.3556E-08	0.0000E+00
NO2	TKO22b	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9649E-06	2.1390E-06	2.0718E-06	1.8413E-06	1.9050E-06	2.1022E-06	2.1130E-06	2.3097E-06	1.6021E-06	1.2764E-06	6.2976E-07	2.4871E-07	1.0351E-07	4.0468E-08	0.0000E+00
NO2	TKO22b	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9298E-06	2.0831E-06	2.0523E-06	1.8328E-06	1.8962E-06	2.0458E-06	2.0448E-06	2.2278E-06	1.5576E-06	1.2176E-06	6.1283E-07	2.4173E-07	1.0057E-07	3.9301E-08	0.0000E+00
NO2	TKO22b	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7867E-07	1.7954E-06	1.9525E-06	1.9145E-06	1.7225E-06	1.7712E-06	1.9453E-06	1.9646E-06	2.1083E-06	1.4795E-06	1.1797E-06	5.8204E-07	2.2740E-07	9.4487E-08	3.6872E-08	0.0000E+00
NO2	TKO22b	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7268E-07	1.8288E-06	1.9482E-06	1.9226E-06	1.7088E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.0762E-06	1.4977E-06	1.1680E-06	5.7268E-07	2.3142E-07	9.6722E-08	3.7754E-08	0.0000E+00
NO2	TKO22b	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7625E-07	1.8511E-06	1.9736E-06	1.9476E-06	1.7198E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.1343E-06	1.4795E-06	1.1463E-06	5.6556E-07	2.3009E-07	9.5603E-08	3.7312E-08	0.0000E+00
NO2	TKO22b	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3556E-07	1.9822E-06	2.1631E-06	2.1024E-06	1.8685E-06	1.9332E-06	2.1232E-06	2.1202E-06	2.2763E-06	1.6319E-06	1.2747E-06	6.2557E-07	2.5291E-07	1.0518E-07	4.0882E-08	0.0000E+00
NO2	TKO22b	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6305E-07	2.0961E-06	2.2430E-06	2.2090E-06	1.9720E-06	2.0402E-06	2.2140E-06	2.2529E-06	2.4111E-06	1.6871E-06	1.3199E-06	6.4527E-07	2.6183E-07	1.0896E-07	4.2786E-08	0.0000E+00
NO2	TKO22b	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2200E-07	2.2569E-06	2.4189E-06	2.3870E-06	2.0971E-06	2.1696E-06	2.3746E-06	2.3733E-06	2.5699E-06	1.7966E-06	1.4137E-06	6.9517E-07	2.7709E-07	1.1707E-07	4.5976E-08	0.0000E+00
NO2	TKO22b	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4318E-07	2.3180E-06	2.5022E-06	2.4357E-06	2.1705E-06	2.2513E-06	2.4550E-06	2.4656E-06	2.6685E-06	1.8695E-06	1.4682E-06	7.3051E-07	2.9003E-07	1.2226E-07	4.7910E-08	0.0000E+00
NO2	TKO22c	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2479E-07	2.2621E-06	2.4136E-06	2.3729E-06	2.1201E-06	2.1934E-06	2.3737E-06	2.3903E-06	2.5992E-06	1.8254E-06	1.4334E-06	7.0529E-07	2.7978E-07	1.1693E-07	4.6667E-08	0.0000E+00
NO2	TKO22c	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7929E-07	2.1210E-06	2.3003E-06	2.2344E-06	1.9927E-06	2.0616E-06	2.2643E-06	2.2788E-06	2.4438E-06	1.7371E-06	1.3626E-06	6.6790E-07	2.6923E-07	1.1218E-07	4.3919E-08	0.0000E+00
NO2	TKO22c	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7875E-07	2.1068E-06	2.2867E-06	2.2496E-06	1.9927E-06	2.0351E-06	2.2351E-06	2.2489E-06	2.4522E-06	1.7136E-06	1.3434E-06	6.7225E-07	2.6711E-07	1.1092E-07	4.3556E-08	0.0000E+00
NO2	TKO22c	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9649E-06	2.1390E-06	2.0718E-06	1.8413E-06	1.9050E-06	2.1022E-06	2.1130E-06	2.3097E-06	1.6021E-06	1.2764E-06	6.2976E-07	2.4871E-07	1.0351E-07	4.0468E-08	0.0000E+00
NO2	TKO22c	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9298E-06	2.0831E-06	2.0523E-06	1.8328E-06	1.8962E-06	2.0458E-06	2.0448E-06	2.2278E-06	1.5576E-06	1.2176E-06	6.1283E-07	2.4173E-07	1.0057E-07	3.9301E-08	0.0000E+00
NO2	TKO22c	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7867E-07	1.7954E-06	1.9525E-06	1.9145E-06	1.7225E-06	1.7712E-06	1.9453E-06	1.9646E-06	2.1083E-06	1.4795E-06	1.1797E-06	5.8204E-07	2.2740E-07	9.4487E-08	3.6872E-08	0.0000E+00
NO2	TKO22c	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7268E-07	1.8288E-06	1.9482E-06	1.9226E-06	1.7088E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.0762E-06	1.4977E-06	1.1680E-06	5.7268E-07	2.3142E-07	9.6722E-08	3.7754E-08	0.0000E+00
NO2	TKO22c	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7625E-07	1.8511E-06	1.9736E-06	1.9476E-06	1.7198E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.1343E-06	1.4795E-06	1.1463E-06	5.6556E-07	2.3009E-07	9.5603E-08	3.7312E-08	0.0000E+00
NO2	TKO22c	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3556E-07	1.9822E-06	2.1631E-06	2.1024E-06	1.8685E-06	1.9332E-06	2.1232E-06	2.1202E-06	2.2763E-06	1.6319E-06	1.2747E-06	6.2557E-07	2.5291E-07	1.0518E-07	4.0882E-08	0.0000E+00
NO2	TKO22c	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6305E-07	2.0961E-06	2.2430E-06	2.2090E-06	1.9720E-06	2.0402E-06	2.2140E-06	2.2529E-06	2.4111E-06	1.6871E-06	1.3199E-06	6.4527E-07	2.6183E-07	1.0896E-07	4.2786E-08	0.0000E+00
NO2	TKO22c	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2200E-07	2.2569E-06	2.4189E-06	2.3870E-06	2.0971E-06	2.1696E-06	2.3746E-06	2.3733E-06	2.5699E-06	1.7966E-06	1.4137E-06	6.9517E-07	2.7709E-07	1.1707E-07	4.5976E-08	0.0000E+00
NO2	TKO22c	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4318E-07	2.3180E-06	2.5022E-06	2.4357E-06	2.1705E-06	2.2513E-06	2.4550E-06	2.4656E-06	2.6685E-06	1.8695E-06	1.4682E-06	7.3051E-07	2.9003E-07	1.2226E-07	4.7910E-08	0.0000E+00
NO2	TKO22d	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2479E-07	2.2621E-06	2.4136E-06	2.3729E-06	2.1201E-06	2.1934E-06	2.3737E-06	2.3903E-06	2.5992E-06	1.8254E-06	1.4334E-06	7.0529E-07	2.7978E-07	1.1693E-07	4.6667E-08	0.0000E+00
NO2	TKO22d	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7929E-07	2.1210E-06	2.3003E-06	2.2344E-06	1.9927E-06	2.0616E-06	2.2643E-06	2.2788E-06	2.4438E-06	1.7371E-06	1.3626E-06	6.6790E-07	2.6923E-07	1.1218E-07	4.3919E-08	0.0000E+00
NO2	TKO22d	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7875E-07	2.1068E-06	2.2867E-06	2.2496E-06	1.9927E-06	2.0351E-06	2.2351E-06	2.2489E-06	2.4522E-06	1.7136E-06	1.3434E-06	6.7225E-07	2.6711E-07	1.1092E-07	4.3556E-08	0.0000E+00
NO2	TKO22d	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9649E-06	2.1390E-06	2.0718E-06	1.8413E-06	1.9050E-06	2.1022E-06	2.1130E-06	2.3097E-06	1.6021E-06	1.2764E-06	6.2976E-07	2.4871E-07	1.0351E-07	4.0468E-08	0.0000E+00
NO2	TKO22d	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9298E-06	2.0831E-06	2.0523E-06	1.8328E-06	1.8962E-06	2.0458E-06	2.0448E-06	2.2278E-06	1.5576E-06	1.2176E-06	6.1283E-07	2.4173E-07	1.0057E-07	3.9301E-08	0.0000E+00
NO2	TKO22d	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7867E-07	1.7954E-06	1.9525E-06	1.9145E-06	1.7225E-06	1.7712E-06	1.9453E-06	1.9646E-06	2.1083E-06	1.4795E-06	1.1797E-06	5.8204E-07	2.2740E-07	9.4487E-08	3.6872E-08	0.0000E+00
NO2	TKO22d	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7268E-07	1.8288E-06	1.9482E-06	1.9226E-06	1.7088E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.0762E-06	1.4977E-06	1.1680E-06	5.7268E-07	2.3142E-07	9.6722E-08	3.7754E-08	0.0000E+00
NO2	TKO22d	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7625E-07	1.8511E-06	1.9736E-06	1.9476E-06	1.7198E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.1343E-06	1.4795E-06	1.1463E-06	5.6556E-07	2.3009E-07	9.5603E-08	3.7312E-08	0.0000E+00
NO2	TKO22d	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3556E-07	1.9822E-06	2.1631E-06	2.1024E-06	1.8685E-06	1.9332E-06	2.1232E-06	2.1202E-06	2.2763E-06	1.6319E-06	1.2747E-06	6.2557E-07	2.5291E-07	1.0518E-07	4.0882E-08	0.0000E+00
NO2	TKO22d	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6305E-07	2.0961E-06	2.2430E-06	2.2090E-06	1.9720E-06	2.0402E-06	2.2140E-06	2.2529E-06	2.4111E-06	1.6871E-06	1.3199E-06	6.4527E-07	2.6183E-07	1.0896E-07	4.2786E-08	0.0000E+00
NO2	TKO22d	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2200E-07	2.2569E-06	2.4189E-06	2.3870E-06	2.0971E-06	2.1696E-06	2.3746E-06	2.3733E-06	2.5699E-06	1.7966E-06	1.4137E-06	6.9517E-07	2.7709E-07	1.1707E-07	4.5976E-08	0.0000E+00
NO2	TKO22d	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4318E-07	2.3180E-06	2.5022E-06	2.4357E-06	2.1705E-06	2.2513E-06	2.4550E-06	2.4656E-06	2.6685E-06	1.8695E-06	1.4682E-06	7.3051E-07	2.9003E-07	1.2226E-07	4.7910E-08	0.0000E+00
NO2	TKO22e	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2479E-07	2.2621E-06	2.4136E-06	2.3729E-06	2.1201E-06	2.1934E-06	2.3737E-06	2.3903E-06	2.5992E-06	1.8254E-06	1.4334E-06	7.0529E-07	2.7978E-07	1.1693E-07	4.6667E-08	0.0000E+00
NO2	TKO22e	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7929E-07	2.1210E-06	2.3003E-06	2.2344E-06	1.9927E-06	2.0616E-06	2.2643E-06	2.2788E-06	2.4438E-06	1.7371E-06	1.3626E-06	6.6790E-07	2.6923E-07	1.1218E-07	4.3919E-08	0.0000E+00
NO2	TKO22e	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7875E-07	2.1068E-06	2.2867E-06	2.2496E-06	1.9927E-06	2.0351E-06	2.2351E-06	2.2489E-06	2.4522E-06	1.7136E-06	1.3434E-06	6.7225E-07	2.6711E-07	1.1092E-07	4.3556E-08	0.0000E+00
NO2	TKO22e	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9649E-06	2.1390E-06	2.0718E-06	1.8413E-06	1.9050E-06	2.1022E-06	2.1130E-06	2.3097E-06	1.6021E-06	1.2764E-06	6.2976E-07	2.4871E-07	1.0351E-07	4.0468E-08	0.0000E+00
NO2	TKO22e	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9298E-06	2.0831E-06	2.0523E-06	1.8328E-06	1.8962E-06	2.0458E-06	2.0448E-06	2.2278E-06	1.5576E-06	1.2176E-06	6.1283E-07	2.4173E-07	1.0057E-07	3.9301E-08	0.0000E+00
NO2	TKO22e	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7867E-07	1.7954E-06	1.9525E-06	1.9145E-06	1.7225E-06	1.7712E-06	1.9453E-06	1.9646E-06	2.1083E-06	1.4795E-06	1.1797E-06	5.8204E-07	2.2740E-07	9.4487E-08	3.6872E-08	0.0000E+00
NO2	TKO22e	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7268E-07	1.8288E-06	1.9482E-06	1.9226E-06	1.7088E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.0762E-06	1.4977E-06	1.1680E-06	5.7268E-07	2.3142E-07	9.6722E-08	3.7754E-08	0.0000E+00
NO2	TKO22e	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7625E-07	1.8511E-06	1.9736E-06	1.9476E-06	1.7198E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.1343E-06	1.4795E-06	1.1463E-06	5.6556E-07	2.3009E-07	9.5603E-08	3.7312E-08	0.0000E+00
NO2	TKO22e	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3556E-07	1.9822E-06	2.1631E-06	2.1024E-06	1.8685E-06	1.9332E-06	2.1232E-06	2.1202E-06	2.2763E-06	1.6319E-06	1.2747E-06	6.2557E-07	2.5291E-07	1.0518E-07	4.0882E-08	0.0000E+00
NO2	TKO22e	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6305E-07	2.0961E-06	2.2430E-06	2.2090E-06	1.9720E-06	2.0402E-06	2.2140E-06	2.2529E-06	2.4111E-06	1.6871E-06	1.3199E-06	6.4527E-07	2.6183E-07	1.0896E-07	4.2786E-08	0.0000E+00
NO2	TKO22e	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2200E-07	2.2569E-06	2.4189E-06	2.3870E-06	2.0971E-06	2.1696E-06	2.3746E-06	2.3733E-06	2.5699E-06	1.7966E-06	1.4137E-06	6.9517E-07	2.7709E-07	1.1707E-07	4.5976E-08	0.0000E+00
NO2	TKO22e	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4318E-07	2.3180E-06	2.5022E-06	2.4357E-06	2.1705E-06	2.2513E-06	2.4550E-06	2.4656E-06	2.6685E-06	1.8695E-06	1.4682E-06	7.3051E-07	2.9003E-07	1.2226E-07	4.7910E-08	0.0000E+00
NO2	TKO22f	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2479E-07	2.2621E-06	2.4136E-06	2.3729E-06	2.1201E-06	2.1934E-06	2.3737E-06	2.3903E-06	2.5992E-06	1.8254E-06	1.4334E-06	7.0529E-07	2.7978E-07	1.1693E-07	4.6667E-08	0.0000E+00
NO2	TKO22f	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7929E-07	2.1210E-06	2.3003E-06	2.2344E-06	1.9927E-06	2.0616E-06	2.2643E-06	2.2788E-06	2.4438E-06	1.7371E-06	1.3626E-06	6.6790E-07	2.6923E-07	1.1218E-07	4.3919E-08	0.0000E+00
NO2	TKO22f	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7875E-07	2.1068E-06	2.2867E-06	2.2496E-06	1.9927E-06	2.0351E-06	2.2351E-06	2.2489E-06	2.4522E-06	1.7136E-06	1.3434E-06	6.7225E-07	2.6711E-07	1.1092E-07	4.3556E-08	0.0000E+00
NO2	TKO22f	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9649E-06	2.1390E-06	2.0718E-06	1.8413E-06	1.9050E-06	2.1022E-06	2.1130E-06	2.3097E-06	1.6021E-06	1.2764E-06	6.2976E-07	2.4871E-07	1.0351E-07	4.0468E-08	0.0000E+00
NO2	TKO22f	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9298E-06	2.0831E-06	2.0523E-06	1.8328E-06	1.8962E-06	2.0458E-06	2.0448E-06	2.2278E-06	1.5576E-06	1.2176E-06	6.1283E-07	2.4173E-07	1.0057E-07	3.9301E-08	0.0000E+00
NO2	TKO22f	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7867E-07	1.7954E-06	1.9525E-06	1.9145E-06	1.7225E-06	1.7712E-06	1.9453E-06	1.9646E-06	2.1083E-06	1.4795E-06	1.1797E-06	5.8204E-07	2.2740E-07	9.4487E-08	3.6872E-08	0.0000E+00
NO2	TKO22f	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7268E-07	1.8288E-06	1.9482E-06	1.9226E-06	1.7088E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.0762E-06	1.4977E-06	1.1680E-06	5.7268E-07	2.3142E-07	9.6722E-08	3.7754E-08	0.0000E+00
NO2	TKO22f	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7625E-07	1.8511E-06	1.9736E-06	1.9476E-06	1.7198E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.1343E-06	1.4795E-06	1.1463E-06	5.6556E-07	2.3009E-07	9.5603E-08	3.7312E-08	0.0000E+00
NO2	TKO22f	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3556E-07	1.9822E-06	2.1631E-06	2.1024E-06	1.8685E-06	1.9332E-06	2.1232E-06	2.1202E-06	2.2763E-06	1.6319E-06	1.2747E-06	6.2557E-07	2.5291E-07	1.0518E-07	4.0882E-08	0.0000E+00
NO2	TKO22f	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6305E-07	2.0961E-06	2.2430E-06	2.2090E-06	1.9720E-06	2.0402E-06	2.2140E-06	2.2529E-06	2.4111E-06	1.6871E-06	1.3199E-06	6.4527E-07	2.6183E-07	1.0896E-07	4.2786E-08	0.0000E+00
NO2	TKO22f	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2200E-07	2.2569E-06	2.4189E-06	2.3870E-06	2.0971E-06	2.1696E-06	2.3746E-06	2.3733E-06	2.5699E-06	1.7966E-06	1.4137E-06	6.9517E-07	2.7709E-07	1.1707E-07	4.5976E-08	0.0000E+00
NO2	TKO22f	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4318E-07	2.3180E-06	2.5022E-06	2.4357E-06	2.1705E-06	2.2513E-06	2.4550E-06	2.4656E-06	2.6685E-06	1.8695E-06	1.4682E-06	7.3051E-07	2.9003E-07	1.2226E-07	4.7910E-08	0.0000E+00
NO2	TKO22g	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2479E-07	2.2621E-06	2.4136E-06	2.3729E-06	2.1201E-06	2.1934E-06	2.3737E-06	2.3903E-06	2.5992E-06	1.8254E-06	1.4334E-06	7.0529E-07	2.7978E-07	1.1693E-07	4.6667E-08	0.0000E+00
NO2	TKO22g	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7929E-07	2.1210E-06	2.3003E-06	2.2344E-06	1.9927E-06	2.0616E-06	2.2643E-06	2.2788E-06	2.4438E-06	1.7371E-06	1.3626E-06	6.6790E-07	2.6923E-07	1.1218E-07	4.3919E-08	0.0000E+00
NO2	TKO22g	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7875E-07	2.1068E-06	2.2867E-06	2.2496E-06	1.9927E-06	2.0351E-06	2.2351E-06	2.2489E-06	2.4522E-06	1.7136E-06	1.3434E-06	6.7225E-07	2.6711E-07	1.1092E-07	4.3556E-08	0.0000E+00
NO2	TKO22g	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9649E-06	2.1390E-06	2.0718E-06	1.8413E-06	1.9050E-06	2.1022E-06	2.1130E-06	2.3097E-06	1.6021E-06	1.2764E-06	6.2976E-07	2.4871E-07	1.0351E-07	4.0468E-08	0.0000E+00
NO2	TKO22g	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9298E-06	2.0831E-06	2.0523E-06	1.8328E-06	1.8962E-06	2.0458E-06	2.0448E-06	2.2278E-06	1.5576E-06	1.2176E-06	6.1283E-07	2.4173E-07	1.0057E-07	3.9301E-08	0.0000E+00
NO2	TKO22g	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7867E-07	1.7954E-06	1.9525E-06	1.9145E-06	1.7225E-06	1.7712E-06	1.9453E-06	1.9646E-06	2.1083E-06	1.4795E-06	1.1797E-06	5.8204E-07	2.2740E-07	9.4487E-08	3.6872E-08	0.0000E+00
NO2	TKO22g	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7268E-07	1.8288E-06	1.9482E-06	1.9226E-06	1.7088E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.0762E-06	1.4977E-06	1.1680E-06	5.7268E-07	2.3142E-07	9.6722E-08	3.7754E-08	0.0000E+00
NO2	TKO22g	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7625E-07	1.8511E-06	1.9736E-06	1.9476E-06	1.7198E-06	1.7679E-06	1.9416E-06	1.9482E-06	2.1343E-06	1.4795E-06	1.1463E-06	5.6556E-07	2.3009E-07	9.5603E-08	3.7312E-08	0.0000E+00
NO2	TKO22g	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3556E-07	1.9822E-06	2.1631E-06	2.1024E-06	1.8685E-06	1.9332E-06	2.1232E-06	2.1202E-06	2.2763E-06	1.6319E-06	1.2747E-06	6.2557E-07	2.5291E-07	1.0518E-07	4.0882E-08	0.0000E+00
NO2	TKO22g	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6305E-07	2.0961E-06	2.2430E-06	2.2090E-06	1.9720E-06	2.0402E-06	2.2140E-06	2.2529E-06	2.4111E-06	1.6871E-06	1.3199E-06	6.4527E-07	2.6183E-07	1.0896E-07	4.2786E-08	0.0000E+00
NO2	TKO22g	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2200E-07	2.2569E-06	2.4189E-06	2.3870E-06	2.0971E-06	2.1696E-06	2.3746E-06	2.3733E-06	2.5699E-06	1.7966E-06	1.4137E-06	6.9517E-07	2.7709E-07	1.1707E-07	4.5976E-08	0.0000E+00
NO2	TKO22g	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4318E-07	2.3180E-06	2.5022E-06	2.4357E-06	2.1705E-06	2.2513E-06	2.4550E-06	2.4656E-06	2.6685E-06	1.8695E-06	1.4682E-06	7.3051E-07	2.9003E-07	1.2226E-07	4.7910E-08	0.0000E+00
NO2	TKO22h	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2479E-07	2.2565E-06	2.4421E-06	2.3729E-06	2.1201E-06	2.1934E-06	2.3737E-06	2.3903E-06	2.5992E-06	1.8254E-06	1.4334E-06	7.0529E-07	2.7978E-07	1.1852E-07	4.6667E-08	0.0000E+00
NO2	TKO22h	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7929E-07	2.1210E-06	2.3003E-06	2.2344E-06	1.9927E-06	2.0685E-06	2.2718E-06	2.2867E-06	2.4522E-06	1.7371E-06	1.3626E-06	6.6790E-07	2.6923E-07	1.1218E-07	4.3919E-08	0.0000E+00
NO2	TKO22h	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7875E-07	2.1141E-06	2.2867E-06	2.2496E-06	1.9994E-06	2.0426E-06	2.2433E-06	2.2572E-06	2.4522E-06	1.7195E-06	1.3434E-06	6.7225E-07	2.6711E-07	1.1092E-07	4.3556E-08	0.0000E+00
NO2	TKO22h	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2399E-07	1.9737E-06	2.1130E-06	2.0817E-06	1.8589E-06	1.9232E-06	2.1122E-06	2.1230E-06	2.3097E-06	1.6092E-06	1.2817E-06	6.2976E-07	2.4871E-07	1.0351E-07	4.0468E-08	0.0000E+00
NO2	TKO22h	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.2121E-07	1.9298E-06	2.0930E-06	2.0621E-06	1.8328E-06	1.8962E-06	2.0458E-06	2.0553E-06	2.2385E-06	1.5576E-06	1.2176E-06	6.1283E-07	2.4173E-07	1.0057E-07	3.9301E-08	0.0000E+00
NO2	TKO22h	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7867E-07	1.8065E-06	1.9525E-06	1.9381E-06	1.7329E-06	1.7928E-06	1.9039E-06	1.9766E-06	2.1213E-06	1.4795E-06	1.1797E-06	5.8204E-07	2.2740E-07	9.4487E-08	3.7981E-08	0.0000E+00
NO2	TKO22h	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.7625E-07	1.8400E-06	1.9609E-06	1.9351E-06	1.7309E-06	1.7793E-06	1.9542E-06	1.9609E-06	2.0899E-06	1.4977E-06	1.1680E-06	5.7268E-07	2.3142E-07	9.6167E-08	3.7754E-08	0.0000E+00
NO2	TKO22h	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.9206E-07	1.8511E-06	1.9736E-06	1.9600E-06	1.7309E-06	1.7793E-06	1.9542E-06	1.9482E-06	2.1343E-06	1.4795E-06	1.1536E-06	5.6556E-07	2.3009E-07	9.5603E-08	3.7312E-08	0.0000E+00
NO2	TKO22h	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3556E-07	1.9926E-06	2.1631E-06	2.1024E-06	1.8789E-06	1.9332E-06	2.1232E-06	2.1322E-06	2.2894E-06	1.6319E-06	1.2747E-06	6.2557E-07	2.5291E-07	1.0465E-07	4.0882E-08	0.0000E+00
NO2	TKO22h	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.6305E-07	2.0961E-06	2.2430E-06	2.2188E-06	1.9720E-06	2.0402E-06	2.2507E-06	2.2629E-06	2.4111E-06	1.6871E-06	1.3199E-06	6.4527E-07	2.6183E-07	1.0896E-07	4.2786E-08	0.0000E+00
NO2	TKO22h	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.2200E-07	2.2569E-06	2.4189E-06	2.3870E-06	2.1215E-06	2.1696E-06	2.3746E-06	2.3733E-06	2.5699E-06	1.7966E-06	1.4137E-06	6.9517E-07	2.8100E-07	1.1707E-07	4.5976E-08	0.0000E+00
NO2	TKO22h	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.4318E-07	2.3401E-06	2.5022E-06	2.4593E-06	2.1705E-06	2.2513E-06	2.4550E-06	2.4656E-06	2.6755E-06	1.8695E-06	1.4682E-06	7.3051E-07	2.9003E-07	1.2226E-07	4.7910E-08	0.0000E+00
NO2	TKO23a	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2711E-06	2.2869E-06	2.2713E-06	2.2882E-06	2.2677E-06	2.2795E-06	2.2795E-06	2.2463E-06	2.2401E-06	2.2557E-06	2.2436E-06	2.2318E-06	9.1054E-07	9.0323E-07	9.1546E-07	9.1769E-07	0.0000E+00
NO2	TKO23a	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1188E-06	2.1442E-06	2.1357E-06	2.1562E-06	2.1361E-06	2.1434E-06	2.1505E-06	2.1505E-06	2.1434E-06	2.1289E-06	2.1357E-06	2.1222E-06	8.6262E-07	8.6938E-07	8.6677E-07	8.6415E-07	0.0000E+00
NO2	TKO23a	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1505E-06	2.1426E-06	2.1289E-06	2.1434E-06	2.1505E-06	2.1505E-06	2.1237E-06	2.1237E-06	2.1159E-06	2.1289E-06	2.1143E-06	2.0926E-06	8.6815E-07	8.6262E-07	8.5700E-07	8.5700E-07	0.0000E+00
NO2	TKO23a	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9723E-06	1.9708E-06	1.9883E-06	1.9815E-06	1.9909E-06	2.0003E-06	2.0003E-06	2.0003E-06	1.9909E-06	2.0058E-06	1.9794E-06	1.9971E-06	8.1362E-07	8.0354E-07	8.0015E-07	7.9677E-07	0.0000E+00
NO2	TKO23a	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9356E-06	1.9619E-06	1.9443E-06	1.9629E-06	1.9723E-06	1.9723E-06	1.9723E-06	1.9377E-06	1.9277E-06	1.9443E-06	1.9164E-06	1.8976E-06	7.9185E-07	7.8115E-07	7.7754E-07	7.7392E-07	0.0000E+00
NO2	TKO23a	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8486E-06	1.8284E-06	1.8207E-06	1.8320E-06	1.8542E-06	1.8655E-06	1.8655E-06	1.8042E-06	1.8542E-06	1.8431E-06	1.8207E-06	1.8390E-06	7.5231E-07	7.3508E-07	7.3077E-07	7.4815E-07	0.0000E+00
NO2	TKO23a	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8495E-06	1.8207E-06	1.8542E-06	1.8397E-06	1.8516E-06	1.8634E-06	1.8516E-06	1.8516E-06	1.8397E-06	1.8160E-06	1.8431E-06	1.8207E-06	7.4031E-07	7.4800E-07	7.4369E-07	7.4369E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	TKO23a	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8284E-06	1.8706E-06	1.8655E-06	1.8516E-06	1.8753E-06	1.8634E-06	1.8516E-06	1.8516E-06	1.8279E-06	1.8542E-06	1.8207E-06	1.7985E-06	7.3115E-07	7.4369E-07	7.3938E-07	7.3508E-07	0.0000E+00
NO2	TKO23a	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0095E-06	2.0071E-06	2.0073E-06	2.0283E-06	2.0106E-06	2.0217E-06	2.0106E-06	2.0106E-06	1.9994E-06	1.9883E-06	2.0073E-06	1.9862E-06	8.0823E-07	8.1700E-07	8.0892E-07	8.0485E-07	0.0000E+00
NO2	TKO23a	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1041E-06	2.0934E-06	2.1109E-06	2.1028E-06	2.1214E-06	2.1214E-06	2.1214E-06	2.1306E-06	2.1214E-06	2.0934E-06	2.0748E-06	2.0562E-06	8.3354E-07	8.4562E-07	8.4208E-07	8.4208E-07	0.0000E+00
NO2	TKO23a	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2856E-06	2.2782E-06	2.2718E-06	2.2668E-06	2.2812E-06	2.2812E-06	2.2551E-06	2.2474E-06	2.2243E-06	2.2305E-06	2.2086E-06	2.2015E-06	8.9762E-07	9.0715E-07	9.0438E-07	9.0438E-07	0.0000E+00
NO2	TKO23a	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3514E-06	2.3446E-06	2.3551E-06	2.3442E-06	2.3499E-06	2.3335E-06	2.3393E-06	2.3230E-06	2.3102E-06	2.3215E-06	2.2976E-06	2.2856E-06	9.4292E-07	9.3608E-07	9.4415E-07	9.4200E-07	0.0000E+00
NO2	TKO23b	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2711E-06	2.2869E-06	2.2713E-06	2.2882E-06	2.2677E-06	2.2795E-06	2.2795E-06	2.2463E-06	2.2401E-06	2.2557E-06	2.2436E-06	2.2318E-06	9.1054E-07	9.0323E-07	9.1546E-07	9.1769E-07	0.0000E+00
NO2	TKO23b	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1188E-06	2.1442E-06	2.1357E-06	2.1562E-06	2.1361E-06	2.1434E-06	2.1505E-06	2.1505E-06	2.1434E-06	2.1289E-06	2.1357E-06	2.1222E-06	8.6262E-07	8.6938E-07	8.6677E-07	8.6415E-07	0.0000E+00
NO2	TKO23b	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1505E-06	2.1426E-06	2.1289E-06	2.1434E-06	2.1505E-06	2.1505E-06	2.1237E-06	2.1237E-06	2.1159E-06	2.1289E-06	2.1143E-06	2.0926E-06	8.6815E-07	8.6262E-07	8.5700E-07	8.5700E-07	0.0000E+00
NO2	TKO23b	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9723E-06	1.9708E-06	1.9883E-06	1.9815E-06	1.9909E-06	2.0003E-06	2.0003E-06	2.0003E-06	1.9909E-06	2.0058E-06	1.9794E-06	1.9971E-06	8.1362E-07	8.0354E-07	8.0015E-07	7.9677E-07	0.0000E+00
NO2	TKO23b	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9356E-06	1.9619E-06	1.9443E-06	1.9629E-06	1.9723E-06	1.9723E-06	1.9723E-06	1.9377E-06	1.9277E-06	1.9443E-06	1.9164E-06	1.8976E-06	7.9185E-07	7.8115E-07	7.7754E-07	7.7392E-07	0.0000E+00
NO2	TKO23b	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8486E-06	1.8284E-06	1.8207E-06	1.8320E-06	1.8542E-06	1.8655E-06	1.8655E-06	1.8042E-06	1.8542E-06	1.8431E-06	1.8207E-06	1.8390E-06	7.5231E-07	7.3508E-07	7.3077E-07	7.4815E-07	0.0000E+00
NO2	TKO23b	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8495E-06	1.8207E-06	1.8542E-06	1.8397E-06	1.8516E-06	1.8634E-06	1.8516E-06	1.8516E-06	1.8397E-06	1.8160E-06	1.8431E-06	1.8207E-06	7.4031E-07	7.4800E-07	7.4369E-07	7.4369E-07	0.0000E+00
NO2	TKO23b	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8284E-06	1.8706E-06	1.8655E-06	1.8516E-06	1.8753E-06	1.8634E-06	1.8516E-06	1.8516E-06	1.8279E-06	1.8542E-06	1.8207E-06	1.7985E-06	7.3115E-07	7.4369E-07	7.3938E-07	7.3508E-07	0.0000E+00
NO2	TKO23b	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0095E-06	2.0071E-06	2.0073E-06	2.0283E-06	2.0106E-06	2.0217E-06	2.0106E-06	2.0106E-06	1.9994E-06	1.9883E-06	2.0073E-06	1.9862E-06	8.0823E-07	8.1700E-07	8.0892E-07	8.0485E-07	0.0000E+00
NO2	TKO23b	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1041E-06	2.0934E-06	2.1109E-06	2.1028E-06	2.1214E-06	2.1214E-06	2.1214E-06	2.1306E-06	2.1214E-06	2.0934E-06	2.0748E-06	2.0562E-06	8.3354E-07	8.4562E-07	8.4208E-07	8.4208E-07	0.0000E+00
NO2	TKO23b	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2856E-06	2.2782E-06	2.2718E-06	2.2668E-06	2.2812E-06	2.2812E-06	2.2551E-06	2.2474E-06	2.2243E-06	2.2305E-06	2.2086E-06	2.2015E-06	8.9762E-07	9.0715E-07	9.0438E-07	9.0438E-07	0.0000E+00
NO2	TKO23b	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3514E-06	2.3446E-06	2.3551E-06	2.3442E-06	2.3499E-06	2.3335E-06	2.3393E-06	2.3230E-06	2.3102E-06	2.3215E-06	2.2976E-06	2.2856E-06	9.4292E-07	9.3608E-07	9.4415E-07	9.4200E-07	0.0000E+00
NO2	TKO23c	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2711E-06	2.2869E-06	2.2713E-06	2.2882E-06	2.2677E-06	2.2795E-06	2.2795E-06	2.2463E-06	2.2401E-06	2.2557E-06	2.2436E-06	2.2318E-06	9.1054E-07	9.0323E-07	9.1546E-07	9.1769E-07	0.0000E+00
NO2	TKO23c	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1188E-06	2.1442E-06	2.1357E-06	2.1562E-06	2.1361E-06	2.1434E-06	2.1505E-06	2.1505E-06	2.1434E-06	2.1289E-06	2.1357E-06	2.1222E-06	8.6262E-07	8.6938E-07	8.6677E-07	8.6415E-07	0.0000E+00
NO2	TKO23c	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1505E-06	2.1426E-06	2.1289E-06	2.1434E-06	2.1505E-06	2.1505E-06	2.1237E-06	2.1237E-06	2.1159E-06	2.1289E-06	2.1143E-06	2.0926E-06	8.6815E-07	8.6262E-07	8.5700E-07	8.5700E-07	0.0000E+00
NO2	TKO23c	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9723E-06	1.9708E-06	1.9883E-06	1.9815E-06	1.9909E-06	2.0003E-06	2.0003E-06	2.0003E-06	1.9909E-06	2.0058E-06	1.9794E-06	1.9971E-06	8.1362E-07	8.0354E-07	8.0015E-07	7.9677E-07	0.0000E+00
NO2	TKO23c	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9356E-06	1.9619E-06	1.9443E-06	1.9629E-06	1.9723E-06	1.9723E-06	1.9723E-06	1.9377E-06	1.9277E-06	1.9443E-06	1.9164E-06	1.8976E-06	7.9185E-07	7.8115E-07	7.7754E-07	7.7392E-07	0.0000E+00
NO2	TKO23c	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8486E-06	1.8284E-06	1.8207E-06	1.8320E-06	1.8542E-06	1.8655E-06	1.8655E-06	1.8042E-06	1.8542E-06	1.8431E-06	1.8207E-06	1.8390E-06	7.5231E-07	7.3508E-07	7.3077E-07	7.4815E-07	0.0000E+00
NO2	TKO23c	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8495E-06	1.8207E-06	1.8542E-06	1.8397E-06	1.8516E-06	1.8634E-06	1.8516E-06	1.8516E-06	1.8397E-06	1.8160E-06	1.8431E-06	1.8207E-06	7.4031E-07	7.4800E-07	7.4369E-07	7.4369E-07	0.0000E+00
NO2	TKO23c	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8284E-06	1.8706E-06	1.8655E-06	1.8516E-06	1.8753E-06	1.8634E-06	1.8516E-06	1.8516E-06	1.8279E-06	1.8542E-06	1.8207E-06	1.7985E-06	7.3115E-07	7.4369E-07	7.3938E-07	7.3508E-07	0.0000E+00
NO2	TKO23c	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0095E-06	2.0071E-06	2.0073E-06	2.0283E-06	2.0106E-06	2.0217E-06	2.0106E-06	2.0106E-06	1.9994E-06	1.9883E-06	2.0073E-06	1.9862E-06	8.0823E-07	8.1700E-07	8.0892E-07	8.0485E-07	0.0000E+00
NO2	TKO23c	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1041E-06	2.0934E-06	2.1109E-06	2.1028E-06	2.1214E-06	2.1214E-06	2.1214E-06	2.1306E-06	2.1214E-06	2.0934E-06	2.0748E-06	2.0562E-06	8.3354E-07	8.4562E-07	8.4208E-07	8.4208E-07	0.0000E+00
NO2	TKO23c	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2856E-06	2.2782E-06	2.2718E-06	2.2668E-06	2.2812E-06	2.2812E-06	2.2551E-06	2.2474E-06	2.2243E-06	2.2305E-06	2.2086E-06	2.2015E-06	8.9762E-07	9.0715E-07	9.0438E-07	9.0438E-07	0.0000E+00
NO2	TKO23c	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3514E-06	2.3446E-06	2.3551E-06	2.3442E-06	2.3499E-06	2.3335E-06	2.3393E-06	2.3230E-06	2.3102E-06	2.3215E-06	2.2976E-06	2.2856E-06	9.4292E-07	9.3608E-07	9.4415E-07	9.4200E-07	0.0000E+00
NO2	TKO23d	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2763E-06	2.2869E-06	2.2769E-06	2.2617E-06	2.2677E-06	2.2795E-06	2.2795E-06	2.2463E-06	2.2401E-06	2.2557E-06	2.2436E-06	2.2318E-06	9.1054E-07	9.0323E-07	9.0323E-07	9.1769E-07	0.0000E+00
NO2	TKO23d	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1188E-06	2.1442E-06	2.1357E-06	2.1562E-06	2.1361E-06	2.1434E-06	2.1434E-06	2.1434E-06	2.1361E-06	2.1216E-06	2.1357E-06	2.1222E-06	8.6262E-07	8.6938E-07	8.6677E-07	8.6415E-07	0.0000E+00
NO2	TKO23d	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1154E-06	2.1426E-06	2.1216E-06	2.1434E-06	2.1505E-06	2.1434E-06	2.1159E-06	2.1159E-06	2.1082E-06	2.1289E-06	2.1071E-06	2.0926E-06	8.6815E-07	8.6262E-07	8.5700E-07	8.5700E-07	0.0000E+00
NO2	TKO23d	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9723E-06	1.9619E-06	1.9794E-06	2.0058E-06	1.9815E-06	1.9815E-06	1.9815E-06	1.9909E-06	1.9815E-06	2.0058E-06	1.9708E-06	1.9888E-06	8.1362E-07	8.0354E-07	8.0015E-07	7.9677E-07	0.0000E+00
NO2	TKO23d	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9356E-06	1.9619E-06	1.9443E-06	1.9537E-06	1.9629E-06	1.9723E-06	1.9723E-06	1.9377E-06	1.9179E-06	1.9351E-06	1.9164E-06	1.8976E-06	7.9185E-07	7.8115E-07	7.7754E-07	7.7392E-07	0.0000E+00
NO2	TKO23d	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8386E-06	1.8284E-06	1.8096E-06	1.8320E-06	1.8320E-06	1.8542E-06	1.8431E-06	1.8431E-06	1.8431E-06	1.8320E-06	1.8207E-06	1.8390E-06	7.5231E-07	7.3508E-07	7.3077E-07	7.2646E-07	0.0000E+00
NO2	TKO23d	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7985E-06	1.8096E-06	1.8431E-06	1.8279E-06	1.8397E-06	1.8397E-06	1.8397E-06	1.8397E-06	1.8279E-06	1.8042E-06	1.8431E-06	1.8207E-06	7.4031E-07	7.4800E-07	7.4800E-07	7.4369E-07	0.0000E+00
NO2	TKO23d	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8284E-06	1.8207E-06	1.8655E-06	1.8516E-06	1.8634E-06	1.8516E-06	1.8397E-06	1.8397E-06	1.8279E-06	1.8542E-06	1.8207E-06	1.7873E-06	7.3115E-07	7.4369E-07	7.3938E-07	7.3508E-07	0.0000E+00
NO2	TKO23d	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0095E-06	2.0071E-06	1.9967E-06	2.0283E-06	2.0106E-06	2.0106E-06	2.0106E-06	2.0106E-06	1.9883E-06	1.9770E-06	2.0073E-06	1.9862E-06	8.0823E-07	8.1700E-07	8.1292E-07	8.0485E-07	0.0000E+00
NO2	TKO23d	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1041E-06	2.0934E-06	2.1109E-06	2.1028E-06	2.1120E-06	2.1214E-06	2.1214E-06	2.0962E-06	2.1120E-06	2.0934E-06	2.0748E-06	2.0562E-06	8.3354E-07	8.4562E-07	8.4208E-07	8.4208E-07	0.0000E+00
NO2	TKO23d	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2856E-06	2.2782E-06	2.2718E-06	2.2668E-06	2.2812E-06	2.2551E-06	2.2551E-06	2.2474E-06	2.2243E-06	2.2305E-06	2.2086E-06	2.2015E-06	8.9762E-07	8.9462E-07	9.0438E-07	9.0438E-07	0.0000E+00
NO2	TKO23d	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3563E-06	2.3446E-06	2.3329E-06	2.3442E-06	2.3275E-06	2.3335E-06	2.3393E-06	2.3230E-06	2.3102E-06	2.3155E-06	2.2976E-06	2.2856E-06	9.4292E-07	9.3608E-07	9.4415E-07	9.4200E-07	0.0000E+00
NO2	TKO23e	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2763E-06	2.2869E-06	2.2769E-06	2.2617E-06	2.2677E-06	2.2795E-06	2.2795E-06	2.2463E-06	2.2401E-06	2.2557E-06	2.2436E-06	2.2318E-06	9.1054E-07	9.0323E-07	9.0323E-07	9.1769E-07	0.0000E+00
NO2	TKO23e	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1188E-06	2.1442E-06	2.1357E-06	2.1562E-06	2.1361E-06	2.1434E-06	2.1434E-06	2.1434E-06	2.1361E-06	2.1216E-06	2.1357E-06	2.1222E-06	8.6262E-07	8.6938E-07	8.6677E-07	8.6415E-07	0.0000E+00
NO2	TKO23e	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1154E-06	2.1426E-06	2.1216E-06	2.1434E-06	2.1505E-06	2.1434E-06	2.1159E-06	2.1159E-06	2.1082E-06	2.1289E-06	2.1071E-06	2.0926E-06	8.6815E-07	8.6262E-07	8.5700E-07	8.5700E-07	0.0000E+00
NO2	TKO23e	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9723E-06	1.9619E-06	1.9794E-06	2.0058E-06	1.9815E-06	1.9815E-06	1.9815E-06	1.9909E-06	1.9815E-06	2.0058E-06	1.9708E-06	1.9888E-06	8.1362E-07	8.0354E-07	8.0015E-07	7.9677E-07	0.0000E+00
NO2	TKO23e	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9356E-06	1.9619E-06	1.9443E-06	1.9537E-06	1.9629E-06	1.9723E-06	1.9723E-06	1.9377E-06	1.9179E-06	1.9351E-06	1.9164E-06	1.8976E-06	7.9185E-07	7.8115E-07	7.7754E-07	7.7392E-07	0.0000E+00
NO2	TKO23e	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8386E-06	1.8284E-06	1.8096E-06	1.8320E-06	1.8320E-06	1.8542E-06	1.8431E-06	1.8431E-06	1.8431E-06	1.8320E-06	1.8207E-06	1.8390E-06	7.5231E-07	7.3508E-07	7.3077E-07	7.2646E-07	0.0000E+00
NO2	TKO23e	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7985E-06	1.8096E-06	1.8431E-06	1.8279E-06	1.8397E-06	1.8397E-06	1.8397E-06	1.8397E-06	1.8279E-06	1.8042E-06	1.8431E-06	1.8207E-06	7.4031E-07	7.4800E-07	7.4800E-07	7.4369E-07	0.0000E+00
NO2	TKO23e	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8284E-06	1.8207E-06	1.8655E-06	1.8516E-06	1.8634E-06	1.8516E-06	1.8397E-06	1.8397E-06	1.8279E-06	1.8542E-06	1.8207E-06	1.7873E-06	7.3115E-07	7.4369E-07	7.3938E-07	7.3508E-07	0.0000E+00
NO2	TKO23e	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0095E-06	2.0071E-06	1.9967E-06	2.0283E-06	2.0106E-06	2.0106E-06	2.0106E-06	2.0106E-06	1.9883E-06	1.9770E-06	2.0073E-06	1.9862E-06	8.0823E-07	8.1700E-07	8.1292E-07	8.0485E-07	0.0000E+00
NO2	TKO23e	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1041E-06	2.0934E-06	2.1109E-06	2.1028E-06	2.1120E-06	2.1214E-06	2.1214E-06	2.0962E-06	2.1120E-06	2.0934E-06	2.0748E-06	2.0562E-06	8.3354E-07	8.4562E-07	8.4208E-07	8.4208E-07	0.0000E+00
NO2	TKO23e	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2856E-06	2.2782E-06	2.2718E-06	2.2668E-06	2.2812E-06	2.2551E-06	2.2551E-06	2.2474E-06	2.2243E-06	2.2305E-06	2.2086E-06	2.2015E-06	8.9762E-07	8.9462E-07	9.0438E-07	9.0438E-07	0.0000E+00
NO2	TKO23e	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3563E-06	2.3446E-06	2.3329E-06	2.3442E-06	2.3275E-06	2.3335E-06	2.3393E-06	2.3230E-06	2.3102E-06	2.3155E-06	2.2976E-06	2.2856E-06	9.4292E-07	9.3608E-07	9.4415E-07	9.4200E-07	0.0000E+00
NO2	TKO23f	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2763E-06	2.2869E-06	2.2769E-06	2.2617E-06	2.2677E-06	2.2795E-06	2.2795E-06	2.2463E-06	2.2401E-06	2.2557E-06	2.2436E-06	2.2318E-06	9.1054E-07	9.0323E-07	9.0323E-07	9.1769E-07	0.0000E+00
NO2	TKO23f	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1188E-06	2.1442E-06	2.1357E-06	2.1562E-06	2.1361E-06	2.1434E-06	2.1434E-06	2.1434E-06	2.1361E-06	2.1216E-06	2.1357E-06	2.1222E-06	8.6262E-07	8.6938E-07	8.6677E-07	8.6415E-07	0.0000E+00
NO2	TKO23f	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1154E-06	2.1426E-06	2.1216E-06	2.1434E-06	2.1505E-06	2.1434E-06	2.1159E-06	2.1159E-06	2.1082E-06	2.1289E-06	2.1071E-06	2.0926E-06	8.6815E-07	8.6262E-07	8.5700E-07	8.5700E-07	0.0000E+00
NO2	TKO23f	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9723E-06	1.9619E-06	1.9794E-06	2.0058E-06	1.9815E-06	1.9815E-06	1.9815E-06	1.9909E-06	1.9815E-06	2.0058E-06	1.9708E-06	1.9888E-06	8.1362E-07	8.0354E-07	8.0015E-07	7.9677E-07	0.0000E+00
NO2	TKO23f	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9356E-06	1.9619E-06	1.9443E-06	1.9537E-06	1.9629E-06	1.9723E-06	1.9723E-06	1.9377E-06	1.9179E-06	1.9351E-06	1.9164E-06	1.8976E-06	7.9185E-07	7.8115E-07	7.7754E-07	7.7392E-07	0.0000E+00
NO2	TKO23f	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8386E-06	1.8284E-06	1.8096E-06	1.8320E-06	1.8320E-06	1.8542E-06	1.8431E-06	1.8431E-06	1.8431E-06	1.8320E-06	1.8207E-06	1.8390E-06	7.5231E-07	7.3508E-07	7.3077E-07	7.2646E-07	0.0000E+00
NO2	TKO23f	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7985E-06	1.8096E-06	1.8431E-06	1.8279E-06	1.8397E-06	1.8397E-06	1.8397E-06	1.8397E-06	1.8279E-06	1.8042E-06	1.8431E-06	1.8207E-06	7.4031E-07	7.4800E-07	7.4800E-07	7.4369E-07	0.0000E+00
NO2	TKO23f	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8284E-06	1.8207E-06	1.8655E-06	1.8516E-06	1.8634E-06	1.8516E-06	1.8397E-06	1.8397E-06	1.8279E-06	1.8542E-06	1.8207E-06	1.7873E-06	7.3115E-07	7.4369E-07	7.3938E-07	7.3508E-07	0.0000E+00
NO2	TKO23f	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0095E-06	2.0071E-06	1.9967E-06	2.0283E-06	2.0106E-06	2.0106E-06	2.0106E-06	2.0106E-06	1.9883E-06	1.9770E-06	2.0073E-06	1.9862E-06	8.0823E-07	8.1700E-07	8.1292E-07	8.0485E-07	0.0000E+00
NO2	TKO23f	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1041E-06	2.0934E-06	2.1109E-06	2.1028E-06	2.1120E-06	2.1214E-06	2.1214E-06	2.0962E-06	2.1120E-06	2.0934E-06	2.0748E-06	2.0562E-06	8.3354E-07	8.4562E-07	8.4208E-07	8.4208E-07	0.0000E+00
NO2	TKO23f	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2856E-06	2.2782E-06	2.2718E-06	2.2668E-06	2.2812E-06	2.2551E-06	2.2551E-06	2.2474E-06	2.2243E-06	2.2305E-06	2.2086E-06	2.2015E-06	8.9762E-07	8.9462E-07	9.0438E-07	9.0438E-07	0.0000E+00
NO2	TKO23f	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3563E-06	2.3446E-06	2.3329E-06	2.3442E-06	2.3275E-06	2.3335E-06	2.3393E-06	2.3230E-06	2.3102E-06	2.3155E-06	2.2976E-06	2.2856E-06	9.4292E-07	9.3608E-07	9.4415E-07	9.4200E-07	0.0000E+00
NO2	TKO23g	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2763E-06	2.2869E-06	2.2769E-06	2.2617E-06	2.2677E-06	2.2795E-06	2.2795E-06	2.2463E-06	2.2401E-06	2.2557E-06	2.2436E-06	2.2318E-06	9.1054E-07	9.0323E-07	9.0323E-07	9.1769E-07	0.0000E+00
NO2	TKO23g	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1188E-06	2.1442E-06	2.1357E-06	2.1562E-06	2.1361E-06	2.1434E-06	2.1434E-06	2.1434E-06	2.1361E-06	2.1216E-06	2.1357E-06	2.1222E-06	8.6262E-07	8.6938E-07	8.6677E-07	8.6415E-07	0.0000E+00
NO2	TKO23g	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1154E-06	2.1426E-06	2.1216E-06	2.1434E-06	2.1505E-06	2.1434E-06	2.1159E-06	2.1159E-06	2.1082E-06	2.1289E-06	2.1071E-06	2.0926E-06	8.6815E-07	8.6262E-07	8.5700E-07	8.5700E-07	0.0000E+00
NO2	TKO23g	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9723E-06	1.9619E-06	1.9794E-06	2.0058E-06	1.9815E-06	1.9815E-06	1.9815E-06	1.9909E-06	1.9815E-06	2.0058E-06	1.9708E-06	1.9888E-06	8.1362E-07	8.0354E-07	8.0015E-07	7.9677E-07	0.0000E+00
NO2	TKO23g	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9356E-06	1.9619E-06	1.9443E-06	1.9537E-06	1.9629E-06	1.9723E-06	1.9723E-06	1.9377E-06	1.9179E-06	1.9351E-06	1.9164E-06	1.8976E-06	7.9185E-07	7.8115E-07	7.7754E-07	7.7392E-07	0.0000E+00
NO2	TKO23g	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8386E-06	1.8284E-06	1.8096E-06	1.8320E-06	1.8320E-06	1.8542E-06	1.8431E-06	1.8431E-06	1.8431E-06	1.8320E-06	1.8207E-06	1.8390E-06	7.5231E-07	7.3508E-07	7.3077E-07	7.2646E-07	0.0000E+00
NO2	TKO23g	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7985E-06	1.8096E-06	1.8431E-06	1.8279E-06	1.8397E-06	1.8397E-06	1.8397E-06	1.8397E-06	1.8279E-06	1.8042E-06	1.8431E-06	1.8207E-06	7.4031E-07	7.4800E-07	7.4800E-07	7.4369E-07	0.0000E+00
NO2	TKO23g	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8284E-06	1.8207E-06	1.8655E-06	1.8516E-06	1.8634E-06	1.8516E-06	1.8397E-06	1.8397E-06	1.8279E-06	1.8542E-06	1.8207E-06	1.7873E-06	7.3115E-07	7.4369E-07	7.3938E-07	7.3508E-07	0.0000E+00
NO2	TKO23g	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0095E-06	2.0071E-06	1.9967E-06	2.0283E-06	2.0106E-06	2.0106E-06	2.0106E-06	2.0106E-06	1.9883E-06	1.9770E-06	2.0073E-06	1.9862E-06	8.0823E-07	8.1700E-07	8.1292E-07	8.0485E-07	0.0000E+00
NO2	TKO23g	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1041E-06	2.0934E-06	2.1109E-06	2.1028E-06	2.1120E-06	2.1214E-06	2.1214E-06	2.0962E-06	2.1120E-06	2.0934E-06	2.0748E-06	2.0562E-06	8.3354E-07	8.4562E-07	8.4208E-07	8.4208E-07	0.0000E+00
NO2	TKO23g	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2856E-06	2.2782E-06	2.2718E-06	2.2668E-06	2.2812E-06	2.2551E-06	2.2551E-06	2.2474E-06	2.2243E-06	2.2305E-06	2.2086E-06	2.2015E-06	8.9762E-07	8.9462E-07	9.0438E-07	9.0438E-07	0.0000E+00
NO2	TKO23g	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3563E-06	2.3446E-06	2.3329E-06	2.3442E-06	2.3275E-06	2.3335E-06	2.3393E-06	2.3230E-06	2.3102E-06	2.3155E-06	2.2976E-06	2.2856E-06	9.4292E-07	9.3608E-07	9.4415E-07	9.4200E-07	0.0000E+00
NO2	TKO23h	1	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2607E-06	2.2711E-06	2.2763E-06	2.2545E-06	2.2602E-06	2.2602E-06	2.2318E-06	2.2496E-06	2.2436E-06	2.2378E-06	2.2318E-06	2.2258E-06	9.0808E-07	9.0077E-07	9.0077E-07	9.1546E-07	0.0000E+00
NO2	TKO23h	2	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1421E-06	2.1188E-06	2.1314E-06	2.1442E-06	2.1154E-06	2.1222E-06	2.1222E-06	2.1071E-06	2.0998E-06	2.0926E-06	2.1222E-06	2.1086E-06	8.5977E-07	8.6415E-07	8.6415E-07	8.6154E-07	0.0000E+00
NO2	TKO23h	3	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.1314E-06	2.1086E-06	2.1222E-06	2.1289E-06	2.1289E-06	2.1289E-06	2.1357E-06	2.1143E-06	2.1143E-06	2.0998E-06	2.0853E-06	2.0780E-06	8.4715E-07	8.5423E-07	8.5423E-07	8.5423E-07	0.0000E+00
NO2	TKO23h	4	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9845E-06	1.9642E-06	1.9723E-06	1.9888E-06	1.9533E-06	1.9619E-06	2.0054E-06	1.9794E-06	1.9708E-06	1.9619E-06	1.9445E-06	1.9723E-06	7.8831E-07	7.9677E-07	7.9338E-07	7.9338E-07	0.0000E+00
NO2	TKO23h	5	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9477E-06	1.9181E-06	1.9356E-06	1.9445E-06	1.9445E-06	1.9533E-06	1.9533E-06	1.9257E-06	1.9164E-06	1.9070E-06	1.8884E-06	1.8790E-06	7.8469E-07	7.7392E-07	7.7038E-07	7.7038E-07	0.0000E+00
NO2	TKO23h	6	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8089E-06	1.7863E-06	1.8074E-06	1.8074E-06	1.8179E-06	1.8284E-06	1.8284E-06	1.7873E-06	1.7873E-06	1.7873E-06	1.7762E-06	1.8179E-06	7.4369E-07	7.2646E-07	7.2215E-07	7.2215E-07	0.0000E+00
NO2	TKO23h	7	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8074E-06	1.8179E-06	1.7873E-06	1.8096E-06	1.8096E-06	1.8096E-06	1.8096E-06	1.7686E-06	1.8096E-06	1.7985E-06	1.7985E-06	1.7873E-06	7.2662E-07	7.3938E-07	7.3938E-07	7.3508E-07	0.0000E+00
NO2	TKO23h	8	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7969E-06	1.8284E-06	1.7985E-06	1.8320E-06	1.8320E-06	1.8320E-06	1.8207E-06	1.8320E-06	1.8096E-06	1.7985E-06	1.7873E-06	1.7649E-06	7.2200E-07	7.3508E-07	7.3077E-07	7.3077E-07	0.0000E+00
NO2	TKO23h	9	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9815E-06	1.9674E-06	1.9971E-06	2.0071E-06	1.9757E-06	1.9862E-06	1.9757E-06	1.9862E-06	1.9757E-06	1.9757E-06	1.9651E-06	1.9546E-06	7.9962E-07	7.9100E-07	8.0485E-07	8.0077E-07	0.0000E+00
NO2	TKO23h	10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0795E-06	2.0876E-06	2.0759E-06	2.0845E-06	2.0934E-06	2.1022E-06	2.0654E-06	2.0748E-06	2.0654E-06	2.0562E-06	2.0468E-06	2.0375E-06	8.2592E-07	8.2208E-07	8.3492E-07	8.3846E-07	0.0000E+00
NO2	TKO23h	11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.2677E-06	2.2526E-06	2.2378E-06	2.2515E-06	2.2378E-06	2.2378E-06	2.2305E-06	2.2088E-06	2.1932E-06	2.2086E-06	2.1942E-06	2.1942E-06	8.9462E-07	8.8869E-07	8.8869E-07	9.0154E-07	0.0000E+00
NO2	TKO23h	12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.3416E-06	2.3288E-06	2.3288E-06	2.3106E-06	2.3162E-06	2.3162E-06	2.3218E-06	2.3155E-06	2.3094E-06	2.2976E-06	2.2856E-06	2.2737E-06	9.3015E-07	9.3146E-07	9.2915E-07	9.2915E-07	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For RSP and FSP Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity in all 8760 hours within the met. year, taken from the respective PATH Met Data. SAMP2.0 generates RSP and FSP emission factors for minimum temperature and relative humidity only, as RSP and FSP emissions should not be affected by temperature and relative humidity.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road ID	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
RSP	CVEH14_1	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	0.0000E+00
RSP	CVEH14_2	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	0.0000E+00
RSP	CVEH14_3	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	0.0000E+00
RSP	CVEH14_4	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	0.0000E+00
RSP	CVEH14_5	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	0.0000E+00
RSP	CVEH14_6	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	0.0000E+00
RSP	CVEH14_7	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	1.9354E-07	0.0000E+00
RSP	CVEH14_8	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	9.6771E-08	0.0000E+00
RSP	CVEH15_1	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH15_2	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH15_3	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH15_4	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH15_5	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH15_6	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH15_7	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH15_8	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	3.3547E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH15_9	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	1.6774E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	CVEH16_1	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	0.0000E+00
RSP	CVEH16_2	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	3.8708E-08	0.0000E+00
RSP	R1a_5029	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	0.0000E+00	0.0000E+00
RSP	R1b_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	0.0000E+00	0.0000E+00
RSP	R1b_5029	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	3.6046E-07	0.0000E+00	0.0000E+00
RSP	R2a_5029	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	R2b_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	R2c_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	R2d_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	R2e_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	R2f_5027	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	R2f_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	R3_5027	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	R4_5027	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.4626E-07	1.2822E-06	1.4536E-06	1.1622E-06	9.6003E-07	1.1005E-06	1.2229E-06	1.1189E-06	9.7702E-07	6.3539E-07	1.5885E-07	3.8837E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
RSP	TKO15	1-12	2.8383E-08	9.8587E-09	6.0797E-10	2.8171E-10	2.1129E-10	9.1919E-09	3.7516E-08	5.6843E-08	7.5738E-08	7.8397E-08	8.2385E-08	1.0908E-07	8.2086E-08	7.5292E-08	9.9399E-08	6.7695E-08	9.7022E-08	1.0637E-07	9.3473E-08	5.9217E-08	4.5089E-08	4.6085E-08	2.8261E-08	1.7845E-08
RSP	TKO16	1-12	3.4084E-08	1.0262E-08	8.1398E-10	1.3470E-08	5.3263E-09	1.0655E-08	2.2770E-08	5.6323E-08	6.6927E-08	9.3313E-08	7.3220E-08	6.7728E-08	5.4859E-08	5.9301E-08	9.2844E-08	7.4461E-08	1.0324E-07	8.5969E-08	1.0671E-07	7.9595E-08	7.8524E-08	3.3228E-08	4.0375E-08	2.4875E-08
RSP	TKO17	1-12	2.4629E-09	2.3702E-10	0.0000E+00	0.0000E+00	0.0000E+00	7.9008E-11	2.5678E-08	3.7218E-08	3.5140E-08	5.7173E-08	5.8971E-08	4.5764E-08	5.7255E-08	4.3188E-08	6.9160E-08	5.0467E-08	5.6492E-08	6.4820E-08	4.8334E-08	4.3611E-08	2.4614E-08	1.9375E-08	1.6528E-08	9.5643E-09
RSP	TKO19	1-12	6.5997E-09	1.0975E-08	2.0322E-09	4.5975E-09	2.3279E-09	3.7229E-08	4.5876E-08	2.7840E-07	5.2108E-07	7.8644E-07	8.4571E-07	7.5084E-07	6.7610E-07	7.1386E-07	7.6879E-07	7.3889E-07	6.6345E-07	5.6491E-07	3.5172E-07	6.6609E-08	4.4646E-08	2.2991E-08	1.7339E-08	2.6143E-09
RSP	TKO20	1-12	3.4319E-08	2.0909E-08	4.5250E-10	1.6129E-08	4.9169E-09	1.6907E-08	3.8765E-08	5.6563E-08	1.2541E-07	1.4143E-07	1.1084E-07	1.1912E-07	7.7179E-08	8.0553E-08	1.2746E-07	7.7791E-08	1.1411E-07	1.3384E-07	1.4069E-07	5.5862E-08	4.1466E-08	2.3324E-08	2.2949E-08	1.5987E-08
RSP	TKO21	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0387E-07	4.2314E-07	7.2385E-07	7.8143E-07	6.9375E-07	6.1537E-07	6.6207E-07	7.0797E-07	6.7701E-07	6.4345E-07	5.1785E-07	3.5129E-07	5.7047E-08	1.4029E-08	5.9986E-09	2.1351E-09	0.0000E+00
RSP	TKO22a	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2438E-07	3.9368E-07	4.2207E-07	4.1459E-07	3.6791E-07	3.8134E-07	4.1721E-07	4.2207E-07	4.5642E-07	3.2122E-07	2.4919E-07	1.2438E-07	4.9303E-08	2.0912E-08	7.4786E-09	0.0000E+00
RSP	TKO22b	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2438E-07	3.9368E-07	4.2207E-07	4.1459E-07	3.6791E-07	3.8134E-07	4.1721E-07	4.2207E-07	4.5642E-07	3.2122E-07	2.4919E-07	1.2438E-07	4.9303E-08	2.0912E-08	7.4786E-09	0.0000E+00
RSP	TKO22c	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2438E-07	3.9368E-07	4.2207E-07	4.1459E-07	3.6791E-07	3.8134E-07	4.1721E-07	4.2207E-07	4.5642E-07	3.2122E-07	2.4919E-07	1.2438E-07	4.9303E-08	2.0912E-08	7.4786E-09	0.0000E+00
RSP	TKO22d	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2438E-07	3.9368E-07	4.2207E-07	4.1459E-07	3.6791E-07	3.8134E-07	4.1721E-07	4.2207E-07	4.5642E-07	3.2122E-07	2.4919E-07	1.2438E-07	4.9303E-08	2.0912E-08	7.4786E-09	0.0000E+00
RSP	TKO22e	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2438E-07	3.9368E-07	4.2207E-07	4.1459E-07	3.6791E-07	3.8134E-07	4.1721E-07	4.2207E-07	4.5642E-07	3.2122E-07	2.4919E-07	1.2438E-07	4.9303E-08	2.0912E-08	7.4786E-09	0.0000E+00
RSP	TKO22f	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2438E-07	3.9368E-07	4.2207E-07	4.1459E-07	3.6791E-07	3.8134E-07	4.1721E-07	4.2207E-07	4.5642E-07	3.2122E-07	2.4919E-07	1.2438E-07	4.9303E-08	2.0912E-08	7.4786E-09	0.0000E+00
RSP	TKO22g	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2438E-07	3.9368E-07	4.2207E-07	4.1459E-07	3.6791E-07	3.8134E-07	4.1721E-07	4.2207E-07	4.5642E-07	3.2122E-07	2.4919E-07	1.2438E-07	4.9303E-08	2.0912E-08	7.4786E-09	0.0000E+00
RSP	TKO22h	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.2438E-07	3.9368E-07	4.2207E-07	4.1459E-07	3.6791E-07	3.8134E-07	4.1721E-07	4.2207E-07	4.5642E-07	3.2122E-07	2.4919E-07	1.2438E-07	4.9303E-08	2.0912E-08	7.4786E-09	0.0000E+00
RSP	TKO23a	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	2.1438E-07	2.1438E-07	2.1438E-07	2.1438E-07	0.0000E+00
RSP	TKO23b	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	2.1438E-07	2.1438E-07	2.1438E-07	2.1438E-07	0.0000E+00
RSP	TKO23c	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	2.1438E-07	2.1438E-07	2.1438E-07	2.1438E-07	0.0000E+00
RSP	TKO23d	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	2.1438E-07	2.1438E-07	2.1438E-07	2.1438E-07	0.0000E+00
RSP	TKO23e	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	2.1438E-07	2.1438E-07	2.1438E-07	2.1438E-07	0.0000E+00
RSP	TKO23f	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	2.1438E-07	2.1438E-07	2.1438E-07	2.1438E-07	0.0000E+00
RSP	TKO23g	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	2.1438E-07	2.1438E-07	2.1438E-07	2.1438E-07	0.0000E+00
RSP	TKO23h	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	5.2405E-07	2.1438E-07	2.1438E-07	2.1438E-07	2.1438E-07	0.0000E+00
FSP	CVEH14_1	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	0.0000E+00
FSP	CVEH14_2	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	0.0000E+00
FSP	CVEH14_3	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	0.0000E+00
FSP	CVEH14_4	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	0.0000E+00
FSP	CVEH14_5	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	0.0000E+00
FSP	CVEH14_6	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	0.0000E+00
FSP	CVEH14_7	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	1.7806E-07	0.0000E+00
FSP	CVEH14_8	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	8.9028E-08	0.0000E+00
FSP	CVEH15_1	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH15_2	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH15_3	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH15_4	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH15_5	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH15_6	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH15_7	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH15_8	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	3.0863E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH15_9	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	1.5431E-07	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	CVEH16_1	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	0.0000E+00
FSP	CVEH16_2	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	3.5611E-08	0.0000E+00
FSP	R1a_5029	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	0.0000E+00	0.0000E+00
FSP	R1b_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	0.0000E+00	0.0000E+00
FSP	R1b_5029	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	3.3162E-07	0.0000E+00	0.0000E+00
FSP	R2a_5029	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	R2b_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	R2c_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	R2d_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	R2e_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	R2f_5027	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	R2f_5028	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	R3_5027	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	R4_5027	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0255E-07	1.1797E-06	1.3373E-06	1.0692E-06	8.8322E-07	1.0124E-06	1.1251E-06	1.0294E-06	8.9885E-07	5.8456E-07	1.4614E-07	3.5730E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
FSP	TKO15	1-12	2.6101E-08	9.0165E-09	5.5843E-10	2.5817E-10	1.9363E-10	8.4543E-09	3.4450E-08	5.2244E-08	6.9687E-08	7.2077E-08	7.5799E-08	1.0018E-07	7.5520E-08	6.9270E-08	9.1506E-08	6.2282E-08	8.9306E-08	9.7826E-08	8.5855E-08	5.4330E-08	4.1486E-08	4.2403E-08	2.5997E-08	1.6428E-08
FSP	TKO16	1-12	3.1395E-08	9.3800E-09	7.4703E-10	1.2388E-08	4.9024E-09	9.8027E-09	2.0726E-08	5.1742E-08	6.1283E-08	8.5771E-08	6.6470E-08	6.1678E-08	5.0097E-08	5.4276E-08	8.5364E-08	6.8236E-08	9.4521E-08	7.8358E-08	9.7427E-08	7.2588E-08	7.1956E-08	3.0546E-08	3.7111E-08	2.2912E-08
FSP	TKO17	1-12	2.2707E-09	2.1721E-10	0.0000E+00	0.0000E+00	0.0000E+00	7.2404E-11	2.3559E-08	3.4246E-08	3.2276E-08	5.2532E-08	5.4275E-08	4.2088E-08	5.2712E-08	3.9739E-08	6.3579E-08	4.6352E-08	5.1730E-08	5.9413E-08	4.4421E-08	3.9956E-08	2.2641E-08	1.7818E-08	1.5146E-08	8.7983E-09
FSP	TKO19	1-12	6.0945E-09	1.0099E-08	1.8693E-09	4.2327E-09	2.1429E-09	3.4252E-08	4.2136E-08	2.5584E-07	4.7927E-07	7.2315E-07	7.7780E-07	6.9021E-07	6.2177E-07	6.5655E-07	7.0683E-07	6.7948E-07	6.1018E-07	5.1883E-07	3.2311E-07	6.1210E-08	4.1096E-08	2.0943E-08	1.5735E-08	2.4162E-09
FSP	TKO20	1-12	3.1587E-08	1.9243E-08	4.2110E-10	1.4844E-08	4.5213E-09	1.5553E-08	3.5479E-08	5.1806E-08	1.1527E-07	1.3008E-07	1.0097E-07	1.0874E-07	7.0756E-08	7.3941E-08	1.1731E-07	7.1328E-08	1.0438E-07	1.2231E-07	1.2895E-07	5.0767E-08	3.7964E-08	2.1460E-08	2.1051E-08	1.4654E-08
FSP	TKO21	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.8748E-07	3.8917E-07	6.6555E-07	7.1864E-07	6.3787E-07	5.6586E-07	6.0889E-07	6.5109E-07	6.2261E-07	5.9175E-07	4.7571E-07	3.2278E-07	5.2471E-08	1.2902E-08	5.5170E-09	1.9640E-09	0.0000E+00
FSP	TKO22a	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1443E-07	3.6218E-07	3.8830E-07	3.8142E-07	3.3847E-07	3.5083E-07	3.8383E-07	3.8830E-07	4.1990E-07	2.9552E-07	2.2925E-07	1.1443E-07	4.5359E-08	1.9239E-08	6.8803E-09	0.0000E+00
FSP	TKO22b	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1443E-07	3.6218E-07	3.8830E-07	3.8142E-07	3.3847E-07	3.5083E-07	3.8383E-07	3.8830E-07	4.1990E-07	2.9552E-07	2.2925E-07	1.1443E-07	4.5359E-08	1.9239E-08	6.8803E-09	0.0000E+00
FSP	TKO22c	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1443E-07	3.6218E-07	3.8830E-07	3.8142E-07	3.3847E-07	3.5083E-07	3.8383E-07	3.8830E-07	4.1990E-07	2.9552E-07	2.2925E-07	1.1443E-07	4.5359E-08	1.9239E-08	6.8803E-09	0.0000E+00
FSP	TKO22d	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1443E-07	3.6218E-07	3.8830E-07	3.8142E-07	3.3847E-07	3.5083E-07	3.8383E-07	3.8830E-07	4.1990E-07	2.9552E-07	2.2925E-07	1.1443E-07	4.5359E-08	1.9239E-08	6.8803E-09	0.0000E+00

Appendix G1 - Calculation of Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (External Vehicles) (For RSP and FSP Assessment)

EMFAC Calender Year:
2025

Notes:
(a) The composite vehicular emission rates are extracted from EPD's SAMP2.0 platform.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity in all 8760 hours within the met. year, taken from the respective PATH Met Data. SAMP2.0 generates RSP and FSP emission factors for minimum temperature and relative humidity only, as RSP and FSP emissions should not be affected by temperature and relative humidity.

Unit	Parameter
g/m2/s	Emission Rate for AERMOD

FSP	TKO22e	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1443E-07	3.6218E-07	3.8830E-07	3.8142E-07	3.3847E-07	3.5083E-07	3.8383E-07	3.8830E-07	4.1990E-07	2.9552E-07	2.2925E-07	1.1443E-07	4.5359E-08	1.9239E-08	6.8803E-09	0.0000E+00
FSP	TKO22f	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1443E-07	3.6218E-07	3.8830E-07	3.8142E-07	3.3847E-07	3.5083E-07	3.8383E-07	3.8830E-07	4.1990E-07	2.9552E-07	2.2925E-07	1.1443E-07	4.5359E-08	1.9239E-08	6.8803E-09	0.0000E+00
FSP	TKO22g	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1443E-07	3.6218E-07	3.8830E-07	3.8142E-07	3.3847E-07	3.5083E-07	3.8383E-07	3.8830E-07	4.1990E-07	2.9552E-07	2.2925E-07	1.1443E-07	4.5359E-08	1.9239E-08	6.8803E-09	0.0000E+00
FSP	TKO22h	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1443E-07	3.6218E-07	3.8830E-07	3.8142E-07	3.3847E-07	3.5083E-07	3.8383E-07	3.8830E-07	4.1990E-07	2.9552E-07	2.2925E-07	1.1443E-07	4.5359E-08	1.9239E-08	6.8803E-09	0.0000E+00
FSP	TKO23a	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	1.9723E-07	1.9723E-07	1.9723E-07	1.9723E-07	0.0000E+00
FSP	TKO23b	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	1.9723E-07	1.9723E-07	1.9723E-07	1.9723E-07	0.0000E+00
FSP	TKO23c	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	1.9723E-07	1.9723E-07	1.9723E-07	1.9723E-07	0.0000E+00
FSP	TKO23d	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	1.9723E-07	1.9723E-07	1.9723E-07	1.9723E-07	0.0000E+00
FSP	TKO23e	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	1.9723E-07	1.9723E-07	1.9723E-07	1.9723E-07	0.0000E+00
FSP	TKO23f	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	1.9723E-07	1.9723E-07	1.9723E-07	1.9723E-07	0.0000E+00
FSP	TKO23g	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	1.9723E-07	1.9723E-07	1.9723E-07	1.9723E-07	0.0000E+00
FSP	TKO23h	1-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	4.8212E-07	1.9723E-07	1.9723E-07	1.9723E-07	1.9723E-07	0.0000E+00

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	R11_5028	1	4.032E-05	4.020E-05	4.037E-05	4.048E-05	4.048E-05	4.032E-05	4.020E-05	1.032E-04	9.906E-05	9.919E-05	9.983E-05	1.001E-04	9.998E-05	1.002E-04	9.877E-05	9.838E-05	9.853E-05	9.761E-05	9.707E-05	9.670E-05	9.652E-05	9.668E-05	9.795E-05	3.997E-05
NO	R11_5028	2	3.802E-05	3.824E-05	3.831E-05	3.838E-05	3.860E-05	3.838E-05	3.787E-05	9.803E-05	9.433E-05	9.506E-05	9.467E-05	9.408E-05	9.392E-05	9.436E-05	9.331E-05	9.355E-05	9.212E-05	9.070E-05	8.975E-05	9.117E-05	9.034E-05	9.082E-05	9.082E-05	3.706E-05
NO	R11_5028	3	3.659E-05	3.650E-05	3.698E-05	3.745E-05	3.769E-05	3.761E-05	3.800E-05	9.965E-05	9.637E-05	9.658E-05	9.614E-05	9.525E-05	9.503E-05	9.492E-05	9.492E-05	9.450E-05	9.367E-05	9.191E-05	9.125E-05	9.117E-05	9.096E-05	9.042E-05	9.042E-05	3.684E-05
NO	R11_5028	4	3.484E-05	3.484E-05	3.535E-05	3.535E-05	3.504E-05	3.504E-05	3.514E-05	9.183E-05	8.928E-05	8.975E-05	9.094E-05	9.189E-05	9.041E-05	9.041E-05	9.041E-05	8.965E-05	8.940E-05	8.788E-05	8.737E-05	8.788E-05	8.661E-05	8.635E-05	8.610E-05	3.453E-05
NO	R11_5028	5	3.518E-05	3.525E-05	3.535E-05	3.545E-05	3.555E-05	3.576E-05	3.606E-05	9.489E-05	8.962E-05	9.124E-05	9.070E-05	8.938E-05	8.909E-05	9.043E-05	9.016E-05	9.016E-05	8.935E-05	8.854E-05	8.827E-05	8.638E-05	8.611E-05	8.560E-05	8.614E-05	3.507E-05
NO	R11_5028	6	3.244E-05	3.202E-05	3.146E-05	3.146E-05	3.214E-05	3.304E-05	3.452E-05	8.987E-05	8.644E-05	8.709E-05	8.579E-05	8.586E-05	8.677E-05	8.751E-05	8.640E-05	8.492E-05	8.551E-05	8.640E-05	8.233E-05	8.049E-05	8.064E-05	7.982E-05	7.947E-05	3.202E-05
NO	R11_5028	7	3.148E-05	3.178E-05	3.193E-05	3.156E-05	3.208E-05	3.193E-05	3.148E-05	8.464E-05	8.196E-05	8.196E-05	8.381E-05	8.709E-05	8.307E-05	8.240E-05	8.381E-05	8.481E-05	8.377E-05	8.082E-05	8.086E-05	8.123E-05	8.049E-05	7.964E-05	7.964E-05	3.193E-05
NO	R11_5028	8	3.300E-05	3.148E-05	3.216E-05	3.216E-05	3.230E-05	3.216E-05	3.244E-05	8.574E-05	8.344E-05	8.475E-05	8.751E-05	8.711E-05	8.751E-05	8.794E-05	8.751E-05	8.655E-05	8.455E-05	8.344E-05	8.196E-05	8.043E-05	8.123E-05	7.840E-05	8.431E-05	3.223E-05
NO	R11_5028	9	3.819E-05	3.779E-05	3.797E-05	3.785E-05	3.792E-05	3.780E-05	3.780E-05	9.810E-05	9.461E-05	9.524E-05	9.594E-05	9.565E-05	9.638E-05	9.601E-05	9.615E-05	9.675E-05	9.675E-05	9.638E-05	9.712E-05	9.601E-05	9.601E-05	9.537E-05	9.537E-05	3.817E-05
NO	R11_5028	10	3.815E-05	3.724E-05	3.681E-05	3.670E-05	3.708E-05	3.708E-05	3.769E-05	9.842E-05	9.448E-05	9.456E-05	9.379E-05	9.348E-05	9.256E-05	9.167E-05	9.167E-05	9.069E-05	9.003E-05	9.072E-05	8.980E-05	8.888E-05	8.827E-05	8.774E-05	9.476E-05	3.827E-05
NO	R11_5028	11	3.893E-05	3.910E-05	3.926E-05	3.941E-05	3.934E-05	3.926E-05	3.934E-05	1.020E-04	9.760E-05	9.721E-05	9.703E-05	9.735E-05	9.758E-05	9.758E-05	9.782E-05	9.735E-05	9.735E-05	9.658E-05	9.836E-05	9.782E-05	9.792E-05	9.690E-05	9.725E-05	3.910E-05
NO	R11_5028	12	4.098E-05	4.092E-05	4.116E-05	4.121E-05	4.126E-05	4.132E-05	4.126E-05	1.060E-04	1.020E-04	1.017E-04	1.018E-04	1.019E-04	1.023E-04	1.024E-04	1.022E-04	1.020E-04	1.018E-04	1.018E-04	1.017E-04	1.027E-04	1.022E-04	1.018E-04	1.015E-04	4.099E-05
NO	R11a_5028	1	4.032E-05	4.020E-05	4.037E-05	4.048E-05	4.048E-05	4.032E-05	4.020E-05	1.415E-04	1.389E-04	1.391E-04	1.400E-04	1.403E-04	1.402E-04	1.405E-04	1.385E-04	1.379E-04	1.382E-04	1.369E-04	1.361E-04	1.356E-04	1.353E-04	1.358E-04	1.376E-04	3.997E-05
NO	R11a_5028	2	3.802E-05	3.824E-05	3.831E-05	3.838E-05	3.860E-05	3.838E-05	3.787E-05	1.342E-04	1.323E-04	1.333E-04	1.328E-04	1.319E-04	1.317E-04	1.323E-04	1.308E-04	1.312E-04	1.292E-04	1.272E-04	1.259E-04	1.278E-04	1.267E-04	1.276E-04	1.276E-04	3.706E-05
NO	R11a_5028	3	3.659E-05	3.650E-05	3.698E-05	3.745E-05	3.769E-05	3.761E-05	3.800E-05	1.365E-04	1.351E-04	1.354E-04	1.348E-04	1.336E-04	1.333E-04	1.331E-04	1.331E-04	1.325E-04	1.313E-04	1.289E-04	1.280E-04	1.278E-04	1.275E-04	1.270E-04	1.270E-04	3.684E-05
NO	R11a_5028	4	3.484E-05	3.484E-05	3.535E-05	3.535E-05	3.504E-05	3.504E-05	3.514E-05	1.255E-04	1.252E-04	1.259E-04	1.275E-04	1.288E-04	1.268E-04	1.268E-04	1.268E-04	1.257E-04	1.254E-04	1.232E-04	1.225E-04	1.232E-04	1.214E-04	1.213E-04	1.209E-04	3.453E-05
NO	R11a_5028	5	3.518E-05	3.525E-05	3.535E-05	3.545E-05	3.555E-05	3.576E-05	3.606E-05	1.298E-04	1.257E-04	1.279E-04	1.272E-04	1.253E-04	1.249E-04	1.268E-04	1.264E-04	1.264E-04	1.253E-04	1.242E-04	1.238E-04	1.211E-04	1.207E-04	1.202E-04	1.210E-04	3.507E-05
NO	R11a_5028	6	3.244E-05	3.202E-05	3.146E-05	3.146E-05	3.214E-05	3.304E-05	3.452E-05	1.228E-04	1.212E-04	1.221E-04	1.203E-04	1.204E-04	1.217E-04	1.227E-04	1.212E-04	1.191E-04	1.199E-04	1.212E-04	1.155E-04	1.129E-04	1.131E-04	1.121E-04	1.116E-04	3.202E-05
NO	R11a_5028	7	3.148E-05	3.178E-05	3.193E-05	3.156E-05	3.208E-05	3.193E-05	3.148E-05	1.154E-04	1.149E-04	1.149E-04	1.175E-04	1.221E-04	1.165E-04	1.155E-04	1.175E-04	1.189E-04	1.175E-04	1.133E-04	1.134E-04	1.139E-04	1.129E-04	1.119E-04	1.119E-04	3.193E-05
NO	R11a_5028	8	3.300E-05	3.148E-05	3.216E-05	3.216E-05	3.230E-05	3.216E-05	3.244E-05	1.170E-04	1.170E-04	1.188E-04	1.227E-04	1.222E-04	1.227E-04	1.233E-04	1.227E-04	1.214E-04	1.186E-04	1.170E-04	1.149E-04	1.128E-04	1.139E-04	1.101E-04	1.184E-04	3.223E-05
NO	R11a_5028	9	3.819E-05	3.779E-05	3.797E-05	3.785E-05	3.792E-05	3.780E-05	3.780E-05	1.343E-04	1.327E-04	1.336E-04	1.345E-04	1.341E-04	1.352E-04	1.346E-04	1.348E-04	1.357E-04	1.357E-04	1.352E-04	1.362E-04	1.346E-04	1.346E-04	1.340E-04	1.340E-04	3.817E-05
NO	R11a_5028	10	3.815E-05	3.724E-05	3.681E-05	3.670E-05	3.708E-05	3.708E-05	3.769E-05	1.348E-04	1.325E-04	1.326E-04	1.315E-04	1.311E-04	1.298E-04	1.285E-04	1.285E-04	1.272E-04	1.262E-04	1.272E-04	1.259E-04	1.246E-04	1.238E-04	1.232E-04	1.331E-04	3.827E-05
NO	R11a_5028	11	3.893E-05	3.910E-05	3.926E-05	3.941E-05	3.934E-05	3.926E-05	3.934E-05	1.398E-04	1.369E-04	1.363E-04	1.361E-04	1.365E-04	1.368E-04	1.368E-04	1.372E-04	1.365E-04	1.365E-04	1.354E-04	1.379E-04	1.372E-04	1.373E-04	1.361E-04	1.366E-04	3.910E-05
NO	R11a_5028	12	4.098E-05	4.092E-05	4.116E-05	4.121E-05	4.126E-05	4.132E-05	4.126E-05	1.454E-04	1.431E-04	1.427E-04	1.427E-04	1.429E-04	1.434E-04	1.435E-04	1.433E-04	1.430E-04	1.428E-04	1.428E-04	1.426E-04	1.440E-04	1.433E-04	1.430E-04	1.425E-04	4.099E-05
NO	R12_5028	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.603E-05	3.984E-05	3.990E-05	4.015E-05	4.025E-05	4.022E-05	4.029E-05	3.973E-05	3.957E-05	3.963E-05	3.926E-05	3.904E-05	3.890E-05	3.882E-05	3.912E-05	3.963E-05	0.000E+00
NO	R12_5028	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.394E-05	3.794E-05	3.824E-05	3.808E-05	3.784E-05	3.778E-05	3.796E-05	3.753E-05	3.763E-05	3.706E-05	3.648E-05	3.610E-05	3.667E-05	3.634E-05	3.675E-05	3.675E-05	0.000E+00
NO	R12_5028	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.459E-05	3.877E-05	3.885E-05	3.867E-05	3.831E-05	3.822E-05	3.818E-05	3.818E-05	3.801E-05	3.768E-05	3.697E-05	3.670E-05	3.667E-05	3.659E-05	3.659E-05	3.659E-05	0.000E+00
NO	R12_5028	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.143E-05	3.591E-05	3.610E-05	3.658E-05	3.696E-05	3.637E-05	3.637E-05	3.637E-05	3.606E-05	3.596E-05	3.535E-05	3.514E-05	3.535E-05	3.484E-05	3.494E-05	3.484E-05	0.000E+00
NO	R12_5028	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.267E-05	3.605E-05	3.670E-05	3.648E-05	3.595E-05	3.583E-05	3.637E-05	3.627E-05	3.627E-05	3.594E-05	3.561E-05	3.550E-05	3.474E-05	3.464E-05	3.464E-05	3.485E-05	0.000E+00
NO	R12_5028	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.063E-05	3.477E-05	3.503E-05	3.451E-05	3.453E-05	3.490E-05	3.520E-05	3.475E-05	3.416E-05	3.439E-05	3.475E-05	3.312E-05	3.237E-05	3.244E-05	3.230E-05	3.216E-05	0.000E+00
NO	R12_5028	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.852E-05	3.297E-05	3.297E-05	3.371E-05	3.503E-05	3.342E-05	3.314E-05	3.371E-05	3.411E-05	3.370E-05	3.251E-05	3.252E-05	3.267E-05	3.237E-05	3.223E-05	3.223E-05	0.000E+00
NO	R12_5028	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.896E-05	3.356E-05	3.409E-05	3.520E-05	3.504E-05	3.520E-05	3.537E-05	3.520E-05	3.481E-05	3.401E-05	3.356E-05	3.297E-05	3.235E-05	3.267E-05	3.172E-05	3.411E-05	0.000E+00
NO	R12_5028	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.397E-05	3.805E-05	3.831E-05	3.859E-05	3.847E-05	3.877E-05	3.862E-05	3.868E-05	3.892E-05	3.892E-05	3.877E-05	3.907E-05	3.862E-05	3.862E-05	3.859E-05	3.859E-05	0.000E+00
NO	R12_5028	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.409E-05	3.800E-05	3.804E-05	3.773E-05	3.760E-05	3.723E-05	3.687E-05	3.687E-05	3.648E-05	3.621E-05	3.649E-05	3.612E-05	3.575E-05	3.550E-05	3.550E-05	3.834E-05	0.000E+00
NO	R12_5028	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.555E-05	3.926E-05	3.910E-05	3.903E-05	3.916E-05	3.925E-05	3.925E-05	3.935E-05	3.916E-05	3.916E-05	3.885E-05	3.957E-05	3.935E-05	3.939E-05	3.921E-05	3.935E-05	0.000E+00
NO	R12_5028	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.715E-05	4.105E-05	4.092E-05	4.093E-05	4.100E-05	4.114E-05	4.117E-05	4.110E-05	4.102E-05	4.095E-05	4.095E-05	4.090E-05	4.131E-05	4.112E-05	4.118E-05	4.105E-05	0.000E+00
NO	R1b_5028	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.124E-06	1.126E-06	1.133E-06	1.136E-06	1.135E-06	1.137E-06	1.121E-06	1.117E-06	1.118E-06	1.108E-06	1.102E-06	1.098E-06	1.096E-06	1.104E-06	0.000E+00	0.000E+00
NO	R1b_5028	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.071E-06	1.079E-06	1.075E-06	1.068E-06	1.066E-06	1.071E-06	1.059E-06	1.062E-06	1.046E-06	1.030E-06	1.019E-06	1.035E-06	1.025E-06	1.037E-06	0.000E+00	0.000E+00
NO	R1b_5028	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.094E-06	1.096E-06	1.091E-06	1.081E-06	1.079E-06	1.077E-06	1.077E-06	1.073E-06	1.063E-06	1.043E-06	1.036E-06	1.035E-06	1.032E-06	1.032E-06	0.000E+00	0.000E+00
NO	R1b_5028	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.013E-06	1.019E-06	1.032E-06	1.043E-06	1.026E-06	1.026E-06	1.026E-06	1.018E-06	1.015E-06	9.975E-07	9.917E-07	9.975E-07	9.831E-07	9.860E-07	0.000E+00	0.000E+00
NO	R1b_5028	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.017E-06	1.036E-06	1.029E-06	1.014E-06	1.011E-06	1.026E-06	1.023E-06	1.023E-06	1.014E-06	1.005E-06	1.002E-06	9.804E-07	9.774E-07	9.774E-07	0.000E+00	0.000E+00
NO	R1b_5028	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.811E-07	9.885E-07	9.737E-07	9.745E-07	9.849E-07	9.933E-07	9.807E-07	9.639E-07	9.706E-07	9.807E-07	9.346E-07	9.136E-07	9.153E-07	9.114E-07	0.000E+00	0.000E+00
NO	R1b_5028	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.304E-07	9.304E-07	9.513E-07	9.885E-07	9.429E-07	9.353E-07	9.513E-07	9.627E-07	9.508E-07	9.174E-07	9.178E-07	9.220E-07	9.136E-07	9.094E-07	0.000E+00	0.000E+00
NO	R1b_5028	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.471E-07	9.620E-07	9.933E-07	9.888E-07	9.933E-07	9.982E-07	9.933E-07	9.824E-07	9.597E-07	9.471E-07	9.304E-07	9.130E-07	9.220E-07	8.951E-07	0.000E+00	0.000E+00
NO	R1b_5028	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.074E-06	1.081E-06	1.089E-06	1.086E-06	1.094E-06	1.090E-06	1.091E-06	1.098E-06	1.098E-06	1.094E-06	1.102E-06	1.090E-06	1.090E-06	1.089E-06	0.000E+00	0.000E+00
NO	R1b_5028	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.072E-06	1.073E-06	1.065E-06	1.061E-06	1.051E-06	1.040E-06	1.040E-06	1.029E-06	1.022E-06	1.030E-06	1.019E-06	1.009E-06	1.002E-06	1.002E-06	0.000E+00	0.000E+00
NO	R1b_5028	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.108E-06	1.103E-06	1.101E-06	1.105E-06	1.108E-06	1.108E-06	1.110E-06	1.105E-06	1.105E-06	1.096E-06	1.116E-06	1.110E-06	1.111E-06	1.106E-06	0.000E+00	0.000E+00
NO	R1b_5028	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.158E-06	1.155E-06	1.155E-06	1.157E-06	1.161E-06	1.162E-06	1.160E-06	1.158E-06	1.156E-06	1.156E-06	1.154E-06	1.166E-06	1.160E-06	1.162E-06	0.000E+00	0.000E+00
NO	R1b_5029	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.124E-06	1.124E-06	1.133E-06	1.136E-06	1.135E-06	1.139E-06	1.125E-06	1.117E-06	1.118E-06	1.108E-06	1.102E-06	1.098E-06	1.096E-06	1.111E-06	0.000E+00	0.000E+00
NO	R1b_5029	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.071E-06	1.079E-06	1.072E-06	1.058E-06	1.066E-06	1.071E-06	1.059E-06	1.071E-06	1.058E-06	1.030E-06	1.019E-06	1.046E-06	1.037E-06	1.037E-06	0.000E+00	0.000E+00
NO	R1b_5029	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.094E-06	1.096E-06	1.091E-06	1.081E-06	1.079E-06	1.077E-06	1.080E-06	1.073E-06	1.066E-06	1.048E-06	1.047E-06	1.035E-06	1.032E-06	1.032E-06	0.000E+00	0.000E+00
NO	R1b_5029	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.016E-06	1.024E-06	1.038E-06	1.046E-06	1.043E-06	1.032E-06	1.029E-06	1.023E-06	1.020E-06	1.000E-06	9.946E-07	1.000E-06	9.888E-07	9.888E-07	0.000E+00	0.000E+00
NO	R1b_5029	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.020E-06	1.039E-06	1.029E-06	1.026E-06	1.014E-06	1.026E-06	1.023E-06	1.026E-06	1.014E-06	1.005E-06	1.002E-06	9.804E-07	9.743E-07	9.774E-07	0.000E+00	0.000E+00
NO	R1b_5029	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.811E-07	9.885E-07	9.774E-07	9.824E-07	9.933E-07	9.888E-07	9.891E-07	9.531E-07	9.824E-07	9.807E-07	9.387E-07	9.178E-07	9.153E-07	9.114E-07	0.000E+00	0.000E+00
NO	R1b_5029	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.304E-07	9.387E-07	9.597E-07	1.003E-06	9.597E-07	9.486E-07	9.597E-07	9.666E-07	9.508E-07	9.174E-07	9.220E-07	9.220E-07	9.136E-07	9.094E-07	0.000E+00	0.000E+00
NO	R1b_5029	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.471E-07	9.665E-07	9.933E-07	9.932E-07	1.006E-06	1.010E-06	1.010E-06	9.863E-07	9.597E-07	9.471E-07	9.304E-07	9.130E-07	9.220E-07	9.136E-07	0.000E+00	0.000E+00
NO	R1b_5029	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.082E-06	1.081E-06	1.089E-06	1.081E-06	1.094E-06	1.090E-06	1.091E-06	1.098E-06	1.094E-06	1.098E-06	1.102E-06	1.090E-06	1.097E-06	1.089E-06	0.000E+00	0.000E+00
NO	R1b_5029	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.072E-06	1.073E-06	1.065E-06	1.065E-06	1.054E-06	1.048E-06	1.048E-06	1.033E-06	1.029E-06	1.037E-06	1.023E-06	1.012E-06	1.002E-06	1.002E-06	0.000E+00	0.000E+00
NO	R1b_5029	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.110E-06	1.106E-06	1.101E-06	1.105E-06	1.108E-06	1.108E-06	1.110E-06	1.105E-06	1.108E-06	1.096E-06	1.116E-06	1.116E-06	1.109E-06	1.106E-06	0.000E+00	0.000E+00
NO	R1b_5029	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.160E-06	1.158E-06	1.158E-06	1.159E-06	1.163E-06	1.162E-06	1.160E-06	1.160E-06	1.156E-06	1.156E-06	1.154E-06	1.166E-06	1.160E-06	1.160E-06	0.000E+00	0.000E+00
NO	R5_5027	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.933E-05	6.478E-05	6.472E-05	6.504E-05	6.514E-05	6.492E-05	6.468E-05	6.392E-05	6.405E-05	6.408E-05	6.384E-05	6.360E-05	6.336E-05	6.312E-05	6.372E-05	6.456E-05	0.000E+00
NO	R5_5027	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.579E-05	6.143E-05	6.180E-05	6.148E-05	6.089E-05	6.103E-05	6.076E-05	6.100E-05	6.130E-05	6.042E-05	5.914E-05	5.867E-05	5.980E-05	5.925E-05	5.925E-05	5.994E-05	0.000E+00
NO	R5_5027	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.652E-05	6.254E-05	6.254E-05	6.203E-05	6.144E-05	6.130E-05	6.103E-05	6.172E-05	6.117E-05	6.076E-05	5.998E-05	5.968E-05	5.910E-05	5.939E-05	5.880E-05	5.952E-05	0.000E+00
NO	R5_5027	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.122E-05	5.773E-05	5.757E-05	5.820E-05	5.851E-05	5.820E-05	5.820E-05	5.883E-05	5.851E-05	5.757E-05	5.690E-05	5.707E-05	5.724E-05	5.640E-05	5.657E-05	5.657E-05	0.000E+00
NO	R5_5027	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.335E-05	5.798E-05	5.869E-05	5.834E-05	5.798E-05	5.780E-05	5.763E-05	5.816E-05	5.834E-05	5.763E-05	5.745E-05	5.780E-05	5.638E-05	5.638E-05	5.620E-05	5.656E-05	0.000E+00
NO	R5_5027	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.025E-05	5.566E-05	5.480E-05	5.459E-05	5.459E-05	5.451E-05	5.401E-05	5.449E-05	5.401E-05	5.328E-05	5.571E-05	5.376E-05	5.255E-05	5.245E-05	5.268E-05	5.222E-05	0.000E+00
NO	R5_5027	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.642E-05	5.303E-05	5.118E-05	5.170E-05	5.359E-05	5.230E-05	5.170E-05	5.328E-05	5.428E-05	5.405E-05	5.196E-05	5.230E-05	5.279E-05	5.230E-05	5.206E-05	5.206E-05	0.000E+00
NO	R5_5027	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.715E-05	5.328E-05	5.403E-05	5.522E-05	5.547E-05	5.565E-05	5.520E-05	5.425E-05	5.542E-05	5.425E-05	5.376E-05	5.303E-05	5.222E-05	5.279E-05	5.118E-05	5.359E-05	0.000E+00
NO	R5_5027	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.510E-05	6.160E-05	6.191E-05	6.161E-05	6.161E-05	6.230E-05	6.156E-05	6.205E-05	6.229E-05	6.229E-05	6.229E-05	6.302E-05	6.229E-05	6.180E-05	6.180E-05	6.207E-05	0.000E+00
NO	R5_5027	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.586E-05	6.136E-05	6.117E-05	6.098E-05	6.079E-05	5.937E-05	5.957E-05	5.978E-05	5.937E-05	5.876E-05	5.782E-05	5.739E-05	5.717E-05	5.695E-05	5.695E-05	6.180E-05	0.000E+00
NO	R5_5027	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.843E-05	6.354E-05	6.309E-05	6.364E-05	6.349E-05	6.364E-05	6.349E-05	6.336E-05	6.320E-05	6.336E-05	6.242E-05	6.383E-05	6.399E-05	6.352E-05	6.364E-05	6.405E-05	0.000E+00
NO	R5_5027	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.102E-05	6.668E-05	6.665E-05	6.662E-05	6.649E-05	6.671E-05	6.660E-05	6.660E-05	6.672E-05	6.636E-05	6.648E-05	6.649E-05	6.714E-05	6.693E-05	6.693E-05	6.649E-05	0.000E+00
NO	R6_5028	1	4.032E-05	4.020E-05	4.037E-05	4.048E-05	4.048E-05	4.032E-05	4.020E-05	8.303E-05	7.466E-05	7.476E-05	7.524E-05	7.541E-05	7.536E-05	7.550E-05	7.444E-05	7.415E-05	7.426E-05	7.357E-05	7.316E-05	7.289E-05	7.275E-05	7.330E-05	7.426E-05	3.997E-05
NO	R6_5028	2	3.802E-05	3.824E-05	3.831E-05	3.838E-05	3.860E-05	3.838E-05	3.787E-05	7.911E-05	7.110E-05	7.165E-05	7.136E-05	7.091E-05	7.079E-05	7.112E-05	7.033E-05	7.051E-05	6.944E-05	6.836E-05	6.765E-05	6.872E-05	6.809E-05	6.886E-05	6.886E-05	3.706E-05
NO	R6_5028	3	3.659E-05	3.650E-05	3.698E-05	3.745E-05	3.769E-05	3.761E-05	3.800E-05	8.033E-05	7.264E-05	7.280E-05	7.246E-05	7.179E-05	7.162E-05	7.154E-05	7.154E-05	7.123E-05	7.060E-05	6.928E-05	6.877E-05	6.872E-05	6.856E-05	6.856E-05	6.856E-05	3.684E-05
NO	R6_5028	4	3.484E-05	3.484E-05	3.535E-05	3.535E-05	3.504E-05	3.504E-05	3.514E-05	7.440E-05	6.729E-05	6.765E-05	6.854E-05	6.926E-05	6.814E-05	6.814E-05	6.814E-05	6.757E-05	6.738E-05	6.623E-05	6.585E-05	6.623E-05	6.528E-05	6.547E-05	6.528E-05	3.453E-05
NO	R6_5028	5	3.518E-05	3.525E-05	3.535E-05	3.545E-05	3.555E-05	3.576E-05	3.606E-05	7.672E-05	6.755E-05	6.877E-05	6.836E-05	6.737E-05	6.715E-05	6.816E-05	6.795E-05	6.795E-05	6.734E-05	6.673E-05	6.653E-05	6.510E-05	6.490E-05	6.490E-05	6.531E-05	3.507E-05
NO	R6_5028	6	3.244E-05	3.202E-05	3.146E-05	3.146E-05	3.214E-05	3.304E-05	3.452E-05	7.292E-05	6.515E-05	6.564E-05	6.466E-05	6.471E-05	6.540E-05	6.596E-05	6.512E-05	6.401E-05	6.445E-05	6.512E-05	6.206E-05	6.066E-05	6.078E-05	6.052E-05	6.026E-05	3.202E-05
NO	R6_5028	7	3.148E-05	3.178E-05	3.193E-05	3.156E-05	3.208E-05	3.193E-05	3.148E-05	6.895E-05	6.178E-05	6.178E-05	6.317E-05	6.564E-05	6.261E-05	6.210E-05	6.317E-05	6.392E-05	6.314E-05	6.092E-05	6.094E-05	6.122E-05	6.066E-05	6.039E-05	6.039E-05	3.193E-05
NO	R6_5028	8	3.300E-05	3.148E-05	3.216E-05	3.216E-05	3.230E-05	3.216E-05	3.244E-05	6.979E-05	6.289E-05	6.388E-05	6.596E-05	6.566E-05	6.596E-05	6.628E-05	6.596E-05	6.523E-05	6.373E-05	6.289E-05	6.178E-05	6.062E-05	6.122E-05	5.944E-05	6.392E-05	3.223E-05

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	R6_5028	9	3.819E-05	3.779E-05	3.797E-05	3.785E-05	3.792E-05	3.780E-05	3.780E-05	7.916E-05	7.131E-05	7.179E-05	7.231E-05	7.209E-05	7.265E-05	7.237E-05	7.247E-05	7.293E-05	7.293E-05	7.265E-05	7.320E-05	7.237E-05	7.237E-05	7.231E-05	7.231E-05	3.817E-05
NO	R6_5028	10	3.815E-05	3.724E-05	3.681E-05	3.670E-05	3.708E-05	3.708E-05	3.769E-05	7.940E-05	7.121E-05	7.127E-05	7.069E-05	7.046E-05	6.976E-05	6.909E-05	6.909E-05	6.835E-05	6.786E-05	6.838E-05	6.768E-05	6.699E-05	6.653E-05	6.653E-05	7.185E-05	3.827E-05
NO	R6_5028	11	3.893E-05	3.910E-05	3.926E-05	3.941E-05	3.934E-05	3.926E-05	3.934E-05	8.213E-05	7.356E-05	7.327E-05	7.313E-05	7.337E-05	7.355E-05	7.355E-05	7.373E-05	7.337E-05	7.337E-05	7.280E-05	7.414E-05	7.373E-05	7.380E-05	7.347E-05	7.374E-05	3.910E-05
NO	R6_5028	12	4.098E-05	4.092E-05	4.116E-05	4.121E-05	4.126E-05	4.132E-05	4.126E-05	8.513E-05	7.691E-05	7.668E-05	7.670E-05	7.683E-05	7.709E-05	7.715E-05	7.701E-05	7.687E-05	7.673E-05	7.673E-05	7.665E-05	7.741E-05	7.704E-05	7.716E-05	7.692E-05	4.099E-05
NO	R7_5028	1	8.065E-05	8.041E-05	8.074E-05	8.097E-05	8.097E-05	8.063E-05	8.041E-05	8.522E-05	8.243E-05	8.253E-05	8.307E-05	8.326E-05	8.320E-05	8.335E-05	8.218E-05	8.186E-05	8.198E-05	8.123E-05	8.077E-05	8.047E-05	8.032E-05	8.092E-05	8.087E-05	7.994E-05
NO	R7_5028	2	7.603E-05	7.647E-05	7.662E-05	7.677E-05	7.721E-05	7.677E-05	7.574E-05	8.095E-05	7.849E-05	7.910E-05	7.878E-05	7.829E-05	7.815E-05	7.852E-05	7.765E-05	7.784E-05	7.666E-05	7.547E-05	7.468E-05	7.586E-05	7.517E-05	7.602E-05	7.499E-05	7.413E-05
NO	R7_5028	3	7.318E-05	7.301E-05	7.397E-05	7.491E-05	7.538E-05	7.522E-05	7.601E-05	8.228E-05	8.019E-05	8.037E-05	8.000E-05	7.926E-05	7.907E-05	7.898E-05	7.898E-05	7.863E-05	7.794E-05	7.648E-05	7.593E-05	7.586E-05	7.569E-05	7.569E-05	7.466E-05	7.368E-05
NO	R7_5028	4	6.968E-05	6.968E-05	7.070E-05	7.070E-05	7.008E-05	7.008E-05	7.029E-05	7.583E-05	7.429E-05	7.468E-05	7.567E-05	7.646E-05	7.523E-05	7.523E-05	7.523E-05	7.460E-05	7.439E-05	7.312E-05	7.270E-05	7.312E-05	7.207E-05	7.228E-05	7.109E-05	6.907E-05
NO	R7_5028	5	7.036E-05	7.049E-05	7.070E-05	7.090E-05	7.110E-05	7.151E-05	7.212E-05	7.835E-05	7.457E-05	7.592E-05	7.547E-05	7.437E-05	7.413E-05	7.525E-05	7.502E-05	7.502E-05	7.435E-05	7.367E-05	7.345E-05	7.187E-05	7.165E-05	7.165E-05	7.112E-05	7.014E-05
NO	R7_5028	6	6.487E-05	6.403E-05	6.292E-05	6.292E-05	6.428E-05	6.607E-05	6.903E-05	7.421E-05	7.193E-05	7.247E-05	7.138E-05	7.144E-05	7.220E-05	7.282E-05	7.190E-05	7.066E-05	7.115E-05	7.190E-05	6.851E-05	6.697E-05	6.710E-05	6.681E-05	6.562E-05	6.403E-05
NO	R7_5028	7	6.296E-05	6.356E-05	6.386E-05	6.313E-05	6.415E-05	6.386E-05	6.296E-05	6.989E-05	6.820E-05	6.820E-05	6.974E-05	7.247E-05	6.913E-05	6.856E-05	6.974E-05	7.057E-05	6.971E-05	6.725E-05	6.728E-05	6.759E-05	6.697E-05	6.667E-05	6.576E-05	6.386E-05
NO	R7_5028	8	6.599E-05	6.296E-05	6.431E-05	6.431E-05	6.459E-05	6.431E-05	6.487E-05	7.080E-05	6.943E-05	7.053E-05	7.282E-05	7.249E-05	7.282E-05	7.318E-05	7.282E-05	7.202E-05	7.036E-05	6.943E-05	6.820E-05	6.693E-05	6.759E-05	6.562E-05	6.960E-05	6.445E-05
NO	R7_5028	9	7.637E-05	7.558E-05	7.594E-05	7.570E-05	7.584E-05	7.561E-05	7.561E-05	8.101E-05	7.872E-05	7.925E-05	7.983E-05	7.959E-05	8.020E-05	7.989E-05	8.001E-05	8.051E-05	8.051E-05	8.020E-05	8.082E-05	7.989E-05	7.989E-05	7.983E-05	7.874E-05	7.634E-05
NO	R7_5028	10	7.630E-05	7.449E-05	7.362E-05	7.340E-05	7.416E-05	7.416E-05	7.538E-05	8.126E-05	7.862E-05	7.868E-05	7.804E-05	7.779E-05	7.702E-05	7.628E-05	7.628E-05	7.546E-05	7.492E-05	7.549E-05	7.472E-05	7.396E-05	7.345E-05	7.345E-05	7.824E-05	7.654E-05
NO	R7_5028	11	7.787E-05	7.820E-05	7.852E-05	7.882E-05	7.868E-05	7.853E-05	7.868E-05	8.424E-05	8.121E-05	8.089E-05	8.074E-05	8.100E-05	8.120E-05	8.120E-05	8.140E-05	8.100E-05	8.100E-05	8.037E-05	8.185E-05	8.140E-05	8.148E-05	8.111E-05	8.030E-05	7.820E-05
NO	R7_5028	12	8.197E-05	8.185E-05	8.232E-05	8.243E-05	8.253E-05	8.263E-05	8.253E-05	8.751E-05	8.491E-05	8.466E-05	8.468E-05	8.482E-05	8.510E-05	8.517E-05	8.502E-05	8.487E-05	8.472E-05	8.472E-05	8.462E-05	8.546E-05	8.506E-05	8.519E-05	8.377E-05	8.198E-05
NO	R8_5028	1	8.065E-05	8.041E-05	8.074E-05	8.097E-05	8.097E-05	8.063E-05	8.041E-05	8.574E-05	8.243E-05	8.253E-05	8.307E-05	8.326E-05	8.320E-05	8.335E-05	8.218E-05	8.186E-05	8.198E-05	8.123E-05	8.077E-05	8.047E-05	8.032E-05	8.092E-05	8.087E-05	7.994E-05
NO	R8_5028	2	7.603E-05	7.647E-05	7.662E-05	7.677E-05	7.721E-05	7.677E-05	7.574E-05	8.148E-05	7.849E-05	7.910E-05	7.878E-05	7.829E-05	7.815E-05	7.852E-05	7.765E-05	7.784E-05	7.666E-05	7.547E-05	7.468E-05	7.586E-05	7.517E-05	7.602E-05	7.499E-05	7.413E-05
NO	R8_5028	3	7.318E-05	7.301E-05	7.397E-05	7.491E-05	7.538E-05	7.522E-05	7.601E-05	8.281E-05	8.019E-05	8.037E-05	8.000E-05	7.926E-05	7.907E-05	7.898E-05	7.898E-05	7.863E-05	7.794E-05	7.648E-05	7.593E-05	7.586E-05	7.569E-05	7.569E-05	7.466E-05	7.368E-05
NO	R8_5028	4	6.968E-05	6.968E-05	7.070E-05	7.070E-05	7.008E-05	7.008E-05	7.029E-05	7.635E-05	7.429E-05	7.468E-05	7.567E-05	7.646E-05	7.523E-05	7.523E-05	7.523E-05	7.460E-05	7.439E-05	7.312E-05	7.270E-05	7.312E-05	7.207E-05	7.228E-05	7.109E-05	6.907E-05
NO	R8_5028	5	7.036E-05	7.049E-05	7.070E-05	7.090E-05	7.110E-05	7.151E-05	7.212E-05	7.888E-05	7.457E-05	7.592E-05	7.547E-05	7.437E-05	7.413E-05	7.525E-05	7.502E-05	7.502E-05	7.435E-05	7.367E-05	7.345E-05	7.187E-05	7.165E-05	7.165E-05	7.112E-05	7.014E-05
NO	R8_5028	6	6.487E-05	6.403E-05	6.292E-05	6.292E-05	6.428E-05	6.607E-05	6.903E-05	7.473E-05	7.193E-05	7.247E-05	7.138E-05	7.144E-05	7.220E-05	7.282E-05	7.190E-05	7.066E-05	7.115E-05	7.190E-05	6.851E-05	6.697E-05	6.710E-05	6.681E-05	6.562E-05	6.403E-05
NO	R8_5028	7	6.296E-05	6.356E-05	6.386E-05	6.313E-05	6.415E-05	6.386E-05	6.296E-05	7.042E-05	6.820E-05	6.820E-05	6.974E-05	7.247E-05	6.913E-05	6.856E-05	6.974E-05	7.057E-05	6.971E-05	6.725E-05	6.728E-05	6.759E-05	6.697E-05	6.667E-05	6.576E-05	6.386E-05
NO	R8_5028	8	6.599E-05	6.296E-05	6.431E-05	6.431E-05	6.459E-05	6.431E-05	6.487E-05	7.133E-05	6.943E-05	7.053E-05	7.282E-05	7.249E-05	7.282E-05	7.318E-05	7.282E-05	7.202E-05	7.036E-05	6.943E-05	6.820E-05	6.693E-05	6.759E-05	6.562E-05	6.960E-05	6.445E-05
NO	R8_5028	9	7.637E-05	7.558E-05	7.594E-05	7.570E-05	7.584E-05	7.561E-05	7.561E-05	8.153E-05	7.872E-05	7.925E-05	7.983E-05	7.959E-05	8.020E-05	7.989E-05	8.001E-05	8.051E-05	8.051E-05	8.020E-05	8.082E-05	7.989E-05	7.989E-05	7.983E-05	7.874E-05	7.634E-05
NO	R8_5028	10	7.630E-05	7.449E-05	7.362E-05	7.340E-05	7.416E-05	7.416E-05	7.538E-05	8.179E-05	7.862E-05	7.868E-05	7.804E-05	7.779E-05	7.702E-05	7.628E-05	7.628E-05	7.546E-05	7.492E-05	7.549E-05	7.472E-05	7.396E-05	7.345E-05	7.345E-05	7.824E-05	7.654E-05
NO	R8_5028	11	7.787E-05	7.820E-05	7.852E-05	7.882E-05	7.868E-05	7.853E-05	7.868E-05	8.477E-05	8.121E-05	8.089E-05	8.074E-05	8.100E-05	8.120E-05	8.120E-05	8.140E-05	8.100E-05	8.100E-05	8.037E-05	8.185E-05	8.140E-05	8.148E-05	8.111E-05	8.030E-05	7.820E-05
NO	R8_5028	12	8.197E-05	8.185E-05	8.232E-05	8.243E-05	8.253E-05	8.263E-05	8.253E-05	8.804E-05	8.491E-05	8.466E-05	8.468E-05	8.482E-05	8.510E-05	8.517E-05	8.502E-05	8.487E-05	8.472E-05	8.472E-05	8.462E-05	8.546E-05	8.506E-05	8.519E-05	8.377E-05	8.198E-05
NO	R9a_5028	1	1.052E-04	1.049E-04	1.054E-04	1.056E-04	1.056E-04	1.052E-04	1.049E-04	1.401E-04	1.383E-04	1.385E-04	1.394E-04	1.397E-04	1.396E-04	1.399E-04	1.379E-04	1.374E-04	1.376E-04	1.363E-04	1.355E-04	1.350E-04	1.348E-04	1.358E-04	1.364E-04	1.043E-04
NO	R9a_5028	2	9.921E-05	9.978E-05	9.997E-05	1.002E-04	1.007E-04	1.002E-04	9.882E-05	1.329E-04	1.317E-04	1.327E-04	1.322E-04	1.314E-04	1.311E-04	1.317E-04	1.303E-04	1.306E-04	1.286E-04	1.266E-04	1.253E-04	1.273E-04	1.261E-04	1.276E-04	1.265E-04	9.672E-05
NO	R9a_5028	3	9.548E-05	9.526E-05	9.651E-05	9.774E-05	9.835E-05	9.815E-05	9.917E-05	1.351E-04	1.346E-04	1.348E-04	1.342E-04	1.330E-04	1.327E-04	1.325E-04	1.325E-04	1.319E-04	1.308E-04	1.283E-04	1.274E-04	1.273E-04	1.270E-04	1.270E-04	1.260E-04	9.613E-05
NO	R9a_5028	4	9.091E-05	9.091E-05	9.224E-05	9.224E-05	9.144E-05	9.144E-05	9.171E-05	1.242E-04	1.246E-04	1.253E-04	1.270E-04	1.283E-04	1.262E-04	1.262E-04	1.262E-04	1.252E-04	1.248E-04	1.227E-04	1.220E-04	1.227E-04	1.209E-04	1.213E-04	1.199E-04	9.011E-05
NO	R9a_5028	5	9.180E-05	9.197E-05	9.224E-05	9.251E-05	9.277E-05	9.330E-05	9.410E-05	1.285E-04	1.251E-04	1.274E-04	1.266E-04	1.248E-04	1.244E-04	1.263E-04	1.259E-04	1.259E-04	1.247E-04	1.236E-04	1.232E-04	1.206E-04	1.202E-04	1.202E-04	1.200E-04	9.152E-05
NO	R9a_5028	6	8.464E-05	8.355E-05	8.209E-05	8.209E-05	8.387E-05	8.621E-05	9.007E-05	1.215E-04	1.207E-04	1.216E-04	1.198E-04	1.199E-04	1.212E-04	1.222E-04	1.206E-04	1.186E-04	1.194E-04	1.206E-04	1.150E-04	1.124E-04	1.126E-04	1.121E-04	1.107E-04	8.355E-05
NO	R9a_5028	7	8.215E-05	8.293E-05	8.332E-05	8.236E-05	8.371E-05	8.332E-05	8.215E-05	1.142E-04	1.144E-04	1.144E-04	1.170E-04	1.216E-04	1.160E-04	1.150E-04	1.170E-04	1.184E-04	1.170E-04	1.128E-04	1.129E-04	1.134E-04	1.124E-04	1.119E-04	1.109E-04	8.332E-05
NO	R9a_5028	8	8.610E-05	8.215E-05	8.391E-05	8.391E-05	8.428E-05	8.391E-05	8.464E-05	1.157E-04	1.165E-04	1.183E-04	1.222E-04	1.216E-04	1.222E-04	1.228E-04	1.222E-04	1.208E-04	1.181E-04	1.165E-04	1.144E-04	1.123E-04	1.134E-04	1.101E-04	1.174E-04	8.409E-05
NO	R9a_5028	9	9.965E-05	9.862E-05	9.909E-05	9.877E-05	9.895E-05	9.865E-05	9.865E-05	1.330E-04	1.321E-04	1.330E-04	1.339E-04	1.335E-04	1.346E-04	1.341E-04	1.342E-04	1.351E-04	1.351E-04	1.346E-04	1.356E-04	1.341E-04	1.341E-04	1.339E-04	1.329E-04	9.961E-05
NO	R9a_5028	10	9.956E-05	9.719E-05	9.605E-05	9.577E-05	9.676E-05	9.676E-05	9.836E-05	1.334E-04	1.319E-04	1.320E-04	1.309E-04	1.305E-04	1.292E-04	1.280E-04	1.280E-04	1.266E-04	1.257E-04	1.267E-04	1.254E-04	1.241E-04	1.232E-04	1.232E-04	1.320E-04	9.986E-05
NO	R9a_5028	11	1.016E-04	1.020E-04	1.024E-04	1.028E-04	1.027E-04	1.025E-04	1.027E-04	1.384E-04	1.363E-04	1.357E-04	1.355E-04	1.359E-04	1.362E-04	1.362E-04	1.366E-04	1.359E-04	1.359E-04	1.349E-04	1.373E-04	1.366E-04	1.367E-04	1.361E-04	1.355E-04	1.020E-04
NO	R9a_5028	12	1.070E-04	1.068E-04	1.074E-04	1.075E-04	1.077E-04	1.078E-04	1.077E-04	1.439E-04	1.425E-04	1.421E-04	1.421E-04	1.423E-04	1.428E-04	1.429E-04	1.427E-04	1.424E-04	1.421E-04	1.421E-04	1.420E-04	1.434E-04	1.427E-04	1.429E-04	1.413E-04	1.070E-04
NO	R9b_5027	1	6.422E-05	6.432E-05	6.432E-05	6.452E-05	6.480E-05	6.462E-05	6.435E-05	1.367E-04	1.301E-04	1.300E-04	1.306E-04	1.308E-04	1.304E-04	1.299E-04	1.284E-04	1.287E-04	1.287E-04	1.282E-04	1.278E-04	1.273E-04	1.268E-04	1.274E-04	1.280E-04	6.389E-05
NO	R9b_5027	2	6.072E-05	6.054E-05	6.131E-05	6.131E-05	6.178E-05	6.143E-05	6.060E-05	1.297E-04	1.234E-04	1.241E-04	1.235E-04	1.223E-04	1.226E-04	1.220E-04	1.225E-04	1.231E-04	1.214E-04	1.188E-04	1.178E-04	1.201E-04	1.190E-04	1.185E-04	1.188E-04	5.942E-05
NO	R9b_5027	3	5.862E-05	5.848E-05	5.848E-05	6.016E-05	6.041E-05	6.041E-05	6.010E-05	1.311E-04	1.256E-04	1.256E-04	1.246E-04	1.234E-04	1.231E-04	1.226E-04	1.240E-04	1.229E-04	1.220E-04	1.205E-04	1.199E-04	1.187E-04	1.193E-04	1.176E-04	1.180E-04	5.862E-05
NO	R9b_5027	4	5.574E-05	5.558E-05	5.607E-05	5.656E-05	5.607E-05	5.607E-05	5.607E-05	1.206E-04	1.160E-04	1.156E-04	1.169E-04	1.175E-04	1.169E-04	1.169E-04	1.182E-04	1.175E-04	1.156E-04	1.143E-04	1.146E-04	1.150E-04	1.133E-04	1.131E-04	1.121E-04	5.542E-05
NO	R9b_5027	5	5.610E-05	5.540E-05	5.656E-05	5.656E-05	5.689E-05	5.722E-05	5.738E-05	1.248E-04	1.165E-04	1.179E-04	1.172E-04	1.165E-04	1.161E-04	1.158E-04	1.168E-04	1.172E-04	1.158E-04	1.154E-04	1.161E-04	1.133E-04	1.133E-04	1.124E-04	1.121E-04	5.592E-05
NO	R9b_5027	6	5.019E-05	5.019E-05	5.041E-05	5.018E-05	5.131E-05	5.277E-05	5.406E-05	1.187E-04	1.118E-04	1.101E-04	1.097E-04	1.097E-04	1.095E-04	1.085E-04	1.095E-04	1.085E-04	1.070E-04	1.119E-04	1.080E-04	1.055E-04	1.054E-04	1.053E-04	1.035E-04	5.108E-05
NO	R9b_5027	7	5.019E-05	4.953E-05	4.953E-05	5.029E-05	5.115E-05	5.115E-05	5.019E-05	1.111E-04	1.065E-04	1.028E-04	1.039E-04	1.077E-04	1.051E-04	1.039E-04	1.070E-04	1.090E-04	1.086E-04	1.044E-04	1.051E-04	1.060E-04	1.051E-04	1.041E-04	1.032E-04	5.067E-05
NO	R9b_5027	8	5.163E-05	5.019E-05	5.176E-05	5.019E-05	5.043E-05	5.153E-05	5.176E-05	1.125E-04	1.070E-04	1.085E-04	1.109E-04	1.114E-04	1.118E-04	1.109E-04	1.090E-04	1.113E-04	1.090E-04	1.080E-04	1.065E-04	1.049E-04	1.060E-04	1.024E-04	1.063E-04	5.139E-05
NO	R9b_5027	9	6.061E-05	5.998E-05	5.956E-05	5.992E-05	5.973E-05	5.953E-05	6.010E-05	1.283E-04	1.237E-04	1.244E-04	1.238E-04	1.238E-04	1.251E-04	1.237E-04	1.246E-04	1.251E-04	1.251E-04	1.251E-04	1.266E-04	1.251E-04	1.241E-04	1.236E-04	1.231E-04	6.054E-05
NO	R9b_5027	10	6.066E-05	5.861E-05	5.872E-05	5.924E-05	5.889E-05	5.935E-05	6.017E-05	1.298E-04	1.233E-04	1.229E-04	1.225E-04	1.221E-04	1.193E-04	1.197E-04	1.201E-04	1.193E-04	1.180E-04	1.161E-04	1.153E-04	1.148E-04	1.144E-04	1.139E-04	1.225E-04	6.085E-05
NO	R9b_5027	11	6.212E-05	6.199E-05	6.256E-05	6.296E-05	6.284E-05	6.284E-05	6.296E-05	1.349E-04	1.276E-04	1.267E-04	1.278E-04	1.275E-04	1.278E-04	1.275E-04	1.273E-04	1.270E-04	1.273E-04	1.254E-04	1.282E-04	1.285E-04	1.276E-04	1.273E-04	1.270E-04	6.239E-05
NO	R9b_5027	12	6.535E-05	6.539E-05	6.579E-05	6.588E-05	6.579E-05	6.599E-05	6.599E-05	1.400E-04	1.340E-04	1.339E-04	1.338E-04	1.336E-04	1.340E-04	1.338E-04	1.338E-04	1.340E-04	1.333E-04	1.335E-04	1.336E-04	1.349E-04	1.344E-04	1.339E-04	1.318E-04	6.545E-05
NO	R9b_5028	1	6.490E-05	6.471E-05	6.498E-05	6.516E-05	6.516E-05	6.489E-05	6.471E-05	1.365E-04	1.311E-04	1.313E-04	1.321E-04	1.324E-04	1.323E-04	1.326E-04	1.307E-04	1.302E-04	1.304E-04	1.292E-04	1.285E-04	1.280E-04	1.278E-04	1.281E-04	1.287E-04	6.434E-05
NO	R9b_5028	2	6.119E-05	6.154E-05	6.166E-05	6.178E-05	6.213E-05	6.178E-05	6.095E-05	1.297E-04	1.249E-04	1.258E-04	1.253E-04	1.245E-04	1.243E-04	1.249E-04	1.235E-04	1.238E-04	1.219E-04	1.200E-04	1.188E-04	1.207E-04	1.196E-04	1.204E-04	1.193E-04	5.965E-05
NO	R9b_5028	3	5.889E-05	5.875E-05	5.953E-05	6.028E-05	6.066E-05	6.054E-05	6.117E-05	1.318E-04	1.276E-04	1.278E-04	1.272E-04	1.261E-04	1.258E-04	1.256E-04	1.256E-04	1.251E-04	1.240E-04	1.217E-04	1.208E-04	1.207E-04	1.204E-04	1.199E-04	1.188E-04	5.929E-05
NO	R9b_5028	4	5.607E-05	5.607E-05	5.689E-05	5.689E-05	5.640E-05	5.640E-05	5.656E-05	1.215E-04	1.182E-04	1.188E-04	1.204E-04	1.216E-04	1.197E-04	1.197E-04	1.197E-04	1.187E-04	1.183E-04	1.163E-04	1.156E-04	1.163E-04	1.146E-04	1.145E-04	1.131E-04	5.558E-05
NO	R9b_5028	5	5.662E-05	5.673E-05	5.689E-05	5.706E-05	5.722E-05	5.755E-05	5.804E-05	1.256E-04	1.186E-04	1.208E-04	1.200E-04	1.183E-04	1.179E-04	1.197E-04	1.193E-04	1.193E-04	1.183E-04	1.172E-04	1.168E-04	1.143E-04	1.140E-04	1.135E-04	1.132E-04	5.645E-05
NO	R9b_5028	6	5.221E-05	5.153E-05	5.063E-05	5.063E-05	5.173E-05	5.317E-05	5.555E-05	1.190E-04	1.144E-04	1.153E-04	1.135E-04	1.136E-04	1.148E-04	1.158E-04	1.144E-04	1.124E-04	1.132E-04	1.144E-04	1.090E-04	1.065E-04	1.067E-04	1.058E-04	1.044E-04	5.153E-05
NO	R9b_5028	7	5.067E-05	5.115E-05	5.139E-05	5.080E-05	5.163E-05	5.139E-05	5.067E-05	1.121E-04	1.085E-04	1.085E-04	1.109E-04	1.153E-04	1.100E-04	1.091E-04	1.109E-04	1.123E-04	1.109E-04	1.070E-04	1.070E-04	1.075E-04	1.065E-04	1.056E-04	1.047E-04	5.139E-05
NO	R9b_5028	8	5.311E-05	5.067E-05	5.176E-05	5.176E-05	5.198E-05	5.176E-05	5.221E-05	1.135E-04	1.104E-04	1.122E-04	1.158E-04	1.153E-04	1.158E-04	1.164E-04	1.158E-04	1.146E-04	1.119E-04	1.104E-04	1.085E-04	1.065E-04	1.075E-04	1.039E-04	1.108E-04	5.187E-05
NO	R9b_5028	9	6.146E-05	6.083E-05	6.112E-05	6.092E-05	6.103E-05	6.085E-05	6.085E-05	1.298E-04	1.252E-04	1.261E-04	1.270E-04	1.266E-04	1.276E-04	1.271E-04	1.273E-04	1.281E-04	1.281E-04	1.276E-04	1.285E-04	1.271E-04	1.271E-04	1.264E-04	1.253E-04	6.144E-05
NO	R9b_5028	10	6.141E-05	5.994E-05	5.924E-05	5.907E-05	5.968E-05	5.968E-05	6.066E-05	1.302E-04	1.251E-04	1.252E-04	1.241E-04	1.237E-04	1.225E-04	1.213E-04	1.213E-04	1.200E-04	1.192E-04	1.201E-04	1.189E-04	1.176E-04	1.168E-04	1.163E-04	1.245E-04	6.159E-05
NO	R9b_5028	11	6.266E-05	6.293E-05	6.319E-05	6.343E-05	6.331E-05	6.320E-05	6.331E-05	1.349E-04	1.292E-04	1.287E-04	1.284E-04	1.288E-04	1.292E-04	1.292E-04	1.295E-04	1.288E-04	1.288E-04	1.278E-04	1.302E-04	1.295E-04	1.296E-04	1.284E-04	1.278E-04	6.293E-05
NO	R9b_5028	12	6.597E-05	6.587E-05	6.624E-05	6.633E-05	6.641E-05	6.650E-05	6.641E-05	1.401E-04	1.351E-04	1.347E-04	1.347E-04	1.349E-04	1.354E-04	1.355E-04	1.352E-04	1.350E-04	1.347E-04	1.347E-04	1.346E-04	1.359E-04	1.353E-04	1.349E-04	1.333E-04	6.597E-05
NO	R9c_5027	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.695E-06	1.694E-06	1.702E-06	1.705E-06	1.699E-06	1.693E-06	1.673E-06	1.676E-06	1.677E-06	1.671E-06	1.664E-06	1.658E-06	1.652E-06	1.098E-06	0.000E+00	0.000E+00
NO	R9c_5027	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.608E-06	1.617E-06	1.609E-06	1.594E-06	1.597E-06	1.590E-06	1.596E-06	1.604E-06	1.581E-06	1.548E-06	1.535E-06	1.565E-06	1.551E-06	1.021E-06	0.000E+00	0.000E+00
NO	R9c_5027	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.637E-06	1.637E-06	1.623E-06	1.608E-06	1.604E-06	1.597E-06	1.615E-06	1.601E-06	1.590E-06	1.570E-06	1.562E-06	1.547E-06	1.554E-06	1.013E-06	0.000E+00	0.000E+00
NO	R9c_5027	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.511E-06	1.507E-06	1.523E-06	1.531E-06	1.523E-06	1.523E-06	1.540E-06	1.531E-06	1.507E-06	1.489E-06	1.494E-06	1.498E-06	1.476E-06	9.745E-07	0.000E+00	0.000E+00
NO	R9c_5027	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.517E-06	1.536E-06	1.527E-06	1.517E-06	1.513E-06	1.508E-06	1.522E-06	1.527E-06	1.508E-06	1.503E-06	1.513E-06	1.476E-06	1.476E-06	9.682E-07	0.000E+00	0.000E+00
NO	R9c_5027	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.457E-06	1.434E-06	1.429E-06	1.429E-06	1.427E-06	1.413E-06	1.426E-06	1.413E-06	1.394E-06	1.458E-06	1.407E-06	1.375E-06	1.373E-06	9.074E-07	0.000E+00	0.000E+00
NO	R9c_5027	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.388E-06	1.340E-06	1.353E-06	1.403E-06	1.369E-06	1.353E-06	1.394E-06	1.421E-06	1.415E-06	1.360E-06	1.369E-06	1.382E-06	1.369E-06	8.968E-07	0.000E+00	0.000E+00
NO	R9c_5027	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.394E-06	1.414E-06	1.445E-06	1.452E-06	1.457E-06	1.445E-06	1.420E-06	1.451E-06	1.420E-06	1.407E-06	1.388E-06	1.367E-06	1.382E-06	8.817E-07	0.000E+00	0.000E+00
NO	R9c_5027	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.612E-06	1.620E-06	1.612E-06	1.612E-06	1.630E-06	1.611E-06	1.624E-06	1.630E-06	1.630E-06	1.630E-06	1.649E-06	1.630E-06	1.617E-06	1.065E-06	0.000E+00	0.000E+00
NO	R9c_5027	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.606E-06	1.601E-06	1.596E-06	1.591E-06	1.554E-06	1.559E-06	1.564E-06	1.554E-06	1.538E-06	1.513E-06	1.502E-06	1.496E-06	1.491E-06	9.811E-07	0.000E+00	0.000E+00
NO	R9c_5027	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.663E-06	1.651E-06	1.665E-06	1.662E-06	1.666E-06	1.662E-06	1.658E-06	1.654E-06	1.658E-06	1.634E-06	1.670E-06	1.675E-06	1.662E-06	1.096E-06	0.000E+00	0.000E+00
NO	R9c_5027	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.745E-06	1.744E-06	1.743E-06	1.740E-06	1.746E-06	1.743E-06	1.743E-06	1.746E-06	1.737E-06	1.740E-06	1.740E-06	1.757E-06	1.752E-06	1.153E-06	0.000E+00	0.000E+00
NO2	R11_5028	1	2.052E-06	2.046E-06	2.054E-06	2.060E-06	2.060E-06	2.052E-06	2.046E-06	5.150E-06	5.041E-06	5.047E-06	5.080E-06	5.092E-06	5.088E-06	5.098E-06	5.026E-06	5.006E-06	5.014E-06	4.967E-06	4.940E-06	4.921E-06	4.912E-06	4.920E-06	4.984E-06	2.034E-06
NO2	R11_5028	2	1.935E-06	1.946E-06	1.950E-06	1.953E-06	1.964E-06	1.953E-06	1.927E-06	4.887E-06	4.800E-06	4.837E-06	4.818E-06	4.788E-06	4.779E-06	4.802E-06	4.748E-06	4.760E-06	4.688E-06	4.615E-06	4.567E-06	4.639E-06	4.597E-06	4.622E-06	4.622E-06	1.886E-06
NO2	R11_5028	3	1.862E-06	1.858E-06	1.882E-06	1.906E-06	1.918E-06	1.914E-06	1.934E-06	4.970E-06	4.904E-06	4.915E-06	4.892E-06	4.847E-06	4.836E-06	4.830E-06	4.830E-06	4.809E-06	4.767E-06	4.677E-06	4.643E-06	4.639E-06	4.629E-06	4.601E-06	4.601E-06	1.875E-06
NO2	R11_5028	4	1.773E-06	1.773E-06	1.799E-06	1.799E-06	1.783E-06	1.783E-06	1.788E-06	4.572E-06	4.543E-06	4.567E-06	4.628E-06	4.676E-06	4.601E-06	4.601E-06	4.601E-06	4.562E-06	4.549E-06	4.472E-06	4.446E-06	4.472E-06	4.408E-06	4.394E-06	4.382E-06	1.757E-06

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	R11_5028	5	1.790E-06	1.794E-06	1.799E-06	1.804E-06	1.809E-06	1.820E-06	1.835E-06	4.728E-06	4.560E-06	4.643E-06	4.615E-06	4.548E-06	4.533E-06	4.602E-06	4.588E-06	4.588E-06	4.546E-06	4.506E-06	4.492E-06	4.396E-06	4.382E-06	4.356E-06	4.383E-06	1.785E-06
NO2	R11_5028	6	1.651E-06	1.629E-06	1.601E-06	1.601E-06	1.636E-06	1.681E-06	1.756E-06	4.472E-06	4.399E-06	4.432E-06	4.365E-06	4.369E-06	4.415E-06	4.453E-06	4.397E-06	4.322E-06	4.351E-06	4.397E-06	4.190E-06	4.096E-06	4.104E-06	4.062E-06	4.044E-06	1.629E-06
NO2	R11_5028	7	1.602E-06	1.617E-06	1.625E-06	1.606E-06	1.632E-06	1.625E-06	1.602E-06	4.206E-06	4.171E-06	4.171E-06	4.265E-06	4.432E-06	4.227E-06	4.193E-06	4.265E-06	4.316E-06	4.263E-06	4.113E-06	4.114E-06	4.133E-06	4.096E-06	4.053E-06	4.053E-06	1.625E-06
NO2	R11_5028	8	1.679E-06	1.602E-06	1.636E-06	1.636E-06	1.644E-06	1.636E-06	1.651E-06	4.262E-06	4.246E-06	4.313E-06	4.453E-06	4.433E-06	4.453E-06	4.475E-06	4.453E-06	4.405E-06	4.302E-06	4.246E-06	4.171E-06	4.093E-06	4.133E-06	3.989E-06	4.290E-06	1.640E-06
NO2	R11_5028	9	1.943E-06	1.923E-06	1.932E-06	1.926E-06	1.930E-06	1.924E-06	1.924E-06	4.891E-06	4.814E-06	4.847E-06	4.882E-06	4.867E-06	4.905E-06	4.886E-06	4.893E-06	4.923E-06	4.923E-06	4.905E-06	4.943E-06	4.886E-06	4.886E-06	4.853E-06	4.853E-06	1.942E-06
NO2	R11_5028	10	1.941E-06	1.895E-06	1.873E-06	1.868E-06	1.887E-06	1.887E-06	1.918E-06	4.907E-06	4.808E-06	4.812E-06	4.773E-06	4.757E-06	4.710E-06	4.665E-06	4.665E-06	4.615E-06	4.582E-06	4.616E-06	4.570E-06	4.523E-06	4.492E-06	4.465E-06	4.822E-06	1.947E-06
NO2	R11_5028	11	1.981E-06	1.990E-06	1.998E-06	2.006E-06	2.002E-06	1.998E-06	2.002E-06	5.090E-06	4.966E-06	4.947E-06	4.937E-06	4.954E-06	4.966E-06	4.966E-06	4.978E-06	4.954E-06	4.954E-06	4.915E-06	5.005E-06	4.978E-06	4.983E-06	4.931E-06	4.949E-06	1.990E-06
NO2	R11_5028	12	2.086E-06	2.083E-06	2.094E-06	2.097E-06	2.100E-06	2.103E-06	2.100E-06	5.292E-06	5.193E-06	5.177E-06	5.178E-06	5.187E-06	5.204E-06	5.209E-06	5.200E-06	5.190E-06	5.181E-06	5.181E-06	5.175E-06	5.226E-06	5.202E-06	5.179E-06	5.163E-06	2.086E-06
NO2	R11a_5028	1	2.052E-06	2.046E-06	2.054E-06	2.060E-06	2.060E-06	2.052E-06	2.046E-06	7.140E-06	7.068E-06	7.077E-06	7.123E-06	7.140E-06	7.135E-06	7.148E-06	7.048E-06	7.020E-06	7.030E-06	6.966E-06	6.926E-06	6.900E-06	6.887E-06	6.910E-06	7.001E-06	2.034E-06
NO2	R11a_5028	2	1.935E-06	1.946E-06	1.950E-06	1.953E-06	1.964E-06	1.953E-06	1.927E-06	6.771E-06	6.731E-06	6.783E-06	6.756E-06	6.714E-06	6.701E-06	6.733E-06	6.658E-06	6.675E-06	6.573E-06	6.472E-06	6.404E-06	6.505E-06	6.446E-06	6.492E-06	6.492E-06	1.886E-06
NO2	R11a_5028	3	1.862E-06	1.858E-06	1.882E-06	1.906E-06	1.918E-06	1.914E-06	1.934E-06	6.886E-06	6.877E-06	6.892E-06	6.860E-06	6.796E-06	6.781E-06	6.773E-06	6.773E-06	6.743E-06	6.684E-06	6.559E-06	6.511E-06	6.505E-06	6.491E-06	6.463E-06	6.463E-06	1.875E-06
NO2	R11a_5028	4	1.773E-06	1.773E-06	1.799E-06	1.799E-06	1.783E-06	1.783E-06	1.788E-06	6.327E-06	6.370E-06	6.404E-06	6.489E-06	6.557E-06	6.451E-06	6.451E-06	6.451E-06	6.397E-06	6.379E-06	6.271E-06	6.234E-06	6.271E-06	6.181E-06	6.172E-06	6.155E-06	1.757E-06
NO2	R11a_5028	5	1.790E-06	1.794E-06	1.799E-06	1.804E-06	1.809E-06	1.820E-06	1.835E-06	6.547E-06	6.395E-06	6.510E-06	6.472E-06	6.377E-06	6.357E-06	6.453E-06	6.433E-06	6.433E-06	6.375E-06	6.318E-06	6.298E-06	6.164E-06	6.144E-06	6.118E-06	6.157E-06	1.785E-06
NO2	R11a_5028	6	1.651E-06	1.629E-06	1.601E-06	1.601E-06	1.636E-06	1.681E-06	1.756E-06	6.187E-06	6.168E-06	6.215E-06	6.121E-06	6.126E-06	6.191E-06	6.244E-06	6.165E-06	6.060E-06	6.101E-06	6.165E-06	5.875E-06	5.743E-06	5.754E-06	5.705E-06	5.681E-06	1.629E-06
NO2	R11a_5028	7	1.602E-06	1.617E-06	1.625E-06	1.606E-06	1.632E-06	1.625E-06	1.602E-06	5.813E-06	5.849E-06	5.849E-06	5.981E-06	6.215E-06	5.928E-06	5.880E-06	5.981E-06	6.052E-06	5.977E-06	5.767E-06	5.769E-06	5.796E-06	5.743E-06	5.692E-06	5.692E-06	1.625E-06
NO2	R11a_5028	8	1.679E-06	1.602E-06	1.636E-06	1.636E-06	1.644E-06	1.636E-06	1.651E-06	5.892E-06	5.954E-06	6.048E-06	6.244E-06	6.216E-06	6.244E-06	6.275E-06	6.244E-06	6.176E-06	6.033E-06	5.954E-06	5.849E-06	5.739E-06	5.796E-06	5.603E-06	6.026E-06	1.640E-06
NO2	R11a_5028	9	1.943E-06	1.923E-06	1.932E-06	1.926E-06	1.930E-06	1.924E-06	1.924E-06	6.776E-06	6.751E-06	6.796E-06	6.846E-06	6.825E-06	6.878E-06	6.852E-06	6.861E-06	6.904E-06	6.904E-06	6.878E-06	6.931E-06	6.852E-06	6.852E-06	6.817E-06	6.817E-06	1.942E-06
NO2	R11a_5028	10	1.941E-06	1.895E-06	1.873E-06	1.868E-06	1.887E-06	1.887E-06	1.918E-06	6.798E-06	6.742E-06	6.748E-06	6.693E-06	6.671E-06	6.605E-06	6.541E-06	6.541E-06	6.471E-06	6.425E-06	6.473E-06	6.408E-06	6.342E-06	6.298E-06	6.272E-06	6.773E-06	1.947E-06
NO2	R11a_5028	11	1.981E-06	1.990E-06	1.998E-06	2.006E-06	2.002E-06	1.998E-06	2.002E-06	7.056E-06	6.964E-06	6.937E-06	6.924E-06	6.946E-06	6.963E-06	6.963E-06	6.980E-06	6.946E-06	6.946E-06	6.892E-06	7.019E-06	6.980E-06	6.987E-06	6.926E-06	6.952E-06	1.990E-06
NO2	R11a_5028	12	2.086E-06	2.083E-06	2.094E-06	2.097E-06	2.100E-06	2.103E-06	2.100E-06	7.338E-06	7.282E-06	7.260E-06	7.261E-06	7.274E-06	7.298E-06	7.304E-06	7.291E-06	7.278E-06	7.265E-06	7.265E-06	7.256E-06	7.328E-06	7.294E-06	7.275E-06	7.252E-06	2.086E-06
NO2	R12_5028	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.200E-06	2.028E-06	2.030E-06	2.043E-06	2.048E-06	2.047E-06	2.050E-06	2.022E-06	2.014E-06	2.017E-06	1.998E-06	1.987E-06	1.979E-06	1.976E-06	1.991E-06	2.017E-06	0.000E+00
NO2	R12_5028	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.093E-06	1.931E-06	1.946E-06	1.938E-06	1.926E-06	1.922E-06	1.931E-06	1.910E-06	1.915E-06	1.886E-06	1.856E-06	1.837E-06	1.866E-06	1.849E-06	1.870E-06	1.870E-06	0.000E+00
NO2	R12_5028	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.127E-06	1.973E-06	1.977E-06	1.968E-06	1.950E-06	1.945E-06	1.943E-06	1.943E-06	1.934E-06	1.917E-06	1.881E-06	1.868E-06	1.866E-06	1.862E-06	1.862E-06	1.862E-06	0.000E+00
NO2	R12_5028	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.966E-06	1.827E-06	1.837E-06	1.861E-06	1.881E-06	1.851E-06	1.851E-06	1.851E-06	1.835E-06	1.830E-06	1.799E-06	1.788E-06	1.799E-06	1.773E-06	1.778E-06	1.773E-06	0.000E+00
NO2	R12_5028	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.029E-06	1.834E-06	1.868E-06	1.856E-06	1.829E-06	1.824E-06	1.851E-06	1.845E-06	1.845E-06	1.829E-06	1.812E-06	1.807E-06	1.768E-06	1.763E-06	1.763E-06	1.774E-06	0.000E+00
NO2	R12_5028	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.925E-06	1.769E-06	1.783E-06	1.756E-06	1.757E-06	1.776E-06	1.791E-06	1.769E-06	1.738E-06	1.750E-06	1.769E-06	1.685E-06	1.648E-06	1.651E-06	1.644E-06	1.636E-06	0.000E+00
NO2	R12_5028	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.818E-06	1.678E-06	1.678E-06	1.716E-06	1.783E-06	1.700E-06	1.687E-06	1.716E-06	1.736E-06	1.715E-06	1.654E-06	1.655E-06	1.663E-06	1.648E-06	1.640E-06	1.640E-06	0.000E+00
NO2	R12_5028	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.840E-06	1.708E-06	1.735E-06	1.791E-06	1.783E-06	1.791E-06	1.800E-06	1.791E-06	1.772E-06	1.731E-06	1.708E-06	1.678E-06	1.646E-06	1.663E-06	1.614E-06	1.736E-06	0.000E+00
NO2	R12_5028	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.095E-06	1.936E-06	1.950E-06	1.964E-06	1.958E-06	1.973E-06	1.965E-06	1.968E-06	1.980E-06	1.980E-06	1.973E-06	1.988E-06	1.965E-06	1.965E-06	1.964E-06	1.964E-06	0.000E+00
NO2	R12_5028	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.101E-06	1.934E-06	1.936E-06	1.920E-06	1.914E-06	1.895E-06	1.876E-06	1.876E-06	1.856E-06	1.843E-06	1.857E-06	1.838E-06	1.819E-06	1.807E-06	1.807E-06	1.951E-06	0.000E+00
NO2	R12_5028	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.175E-06	1.998E-06	1.990E-06	1.986E-06	1.993E-06	1.998E-06	1.998E-06	2.002E-06	1.993E-06	1.993E-06	1.977E-06	2.013E-06	2.002E-06	2.004E-06	1.995E-06	2.003E-06	0.000E+00
NO2	R12_5028	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.257E-06	2.089E-06	2.083E-06	2.083E-06	2.086E-06	2.093E-06	2.095E-06	2.091E-06	2.088E-06	2.084E-06	2.084E-06	2.081E-06	2.102E-06	2.092E-06	2.096E-06	2.089E-06	0.000E+00
NO2	R1b_5028	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.721E-08	5.729E-08	5.766E-08	5.780E-08	5.775E-08	5.786E-08	5.705E-08	5.683E-08	5.691E-08	5.638E-08	5.607E-08	5.586E-08	5.575E-08	5.617E-08	0.000E+00	0.000E+00
NO2	R1b_5028	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.449E-08	5.491E-08	5.469E-08	5.434E-08	5.424E-08	5.450E-08	5.390E-08	5.403E-08	5.321E-08	5.239E-08	5.184E-08	5.266E-08	5.218E-08	5.277E-08	0.000E+00	0.000E+00
NO2	R1b_5028	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.567E-08	5.578E-08	5.553E-08	5.501E-08	5.489E-08	5.483E-08	5.483E-08	5.459E-08	5.410E-08	5.309E-08	5.270E-08	5.266E-08	5.254E-08	5.254E-08	0.000E+00	0.000E+00
NO2	R1b_5028	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.156E-08	5.184E-08	5.253E-08	5.307E-08	5.222E-08	5.222E-08	5.222E-08	5.178E-08	5.163E-08	5.076E-08	5.046E-08	5.076E-08	5.003E-08	5.017E-08	0.000E+00	0.000E+00
NO2	R1b_5028	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.176E-08	5.270E-08	5.239E-08	5.162E-08	5.146E-08	5.223E-08	5.208E-08	5.208E-08	5.160E-08	5.114E-08	5.098E-08	4.989E-08	4.974E-08	4.974E-08	0.000E+00	0.000E+00
NO2	R1b_5028	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.993E-08	5.031E-08	4.955E-08	4.959E-08	5.012E-08	5.055E-08	4.991E-08	4.905E-08	4.939E-08	4.991E-08	4.755E-08	4.649E-08	4.658E-08	4.638E-08	0.000E+00	0.000E+00
NO2	R1b_5028	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.734E-08	4.734E-08	4.841E-08	5.031E-08	4.798E-08	4.760E-08	4.841E-08	4.899E-08	4.838E-08	4.668E-08	4.670E-08	4.691E-08	4.649E-08	4.627E-08	0.000E+00	0.000E+00
NO2	R1b_5028	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.820E-08	4.895E-08	5.055E-08	5.032E-08	5.055E-08	5.079E-08	5.055E-08	4.999E-08	4.884E-08	4.820E-08	4.734E-08	4.646E-08	4.691E-08	4.555E-08	0.000E+00	0.000E+00
NO2	R1b_5028	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.464E-08	5.501E-08	5.541E-08	5.524E-08	5.567E-08	5.546E-08	5.554E-08	5.588E-08	5.588E-08	5.567E-08	5.610E-08	5.546E-08	5.546E-08	5.541E-08	0.000E+00	0.000E+00
NO2	R1b_5028	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.457E-08	5.462E-08	5.417E-08	5.400E-08	5.346E-08	5.295E-08	5.295E-08	5.238E-08	5.200E-08	5.240E-08	5.187E-08	5.133E-08	5.098E-08	5.098E-08	0.000E+00	0.000E+00
NO2	R1b_5028	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.637E-08	5.615E-08	5.604E-08	5.623E-08	5.637E-08	5.637E-08	5.650E-08	5.623E-08	5.623E-08	5.578E-08	5.681E-08	5.650E-08	5.656E-08	5.630E-08	0.000E+00	0.000E+00
NO2	R1b_5028	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.894E-08	5.877E-08	5.878E-08	5.888E-08	5.907E-08	5.912E-08	5.902E-08	5.891E-08	5.881E-08	5.881E-08	5.874E-08	5.932E-08	5.904E-08	5.914E-08	0.000E+00	0.000E+00
NO2	R1b_5029	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.721E-08	5.720E-08	5.766E-08	5.780E-08	5.775E-08	5.796E-08	5.727E-08	5.683E-08	5.691E-08	5.638E-08	5.607E-08	5.586E-08	5.575E-08	5.651E-08	0.000E+00	0.000E+00
NO2	R1b_5029	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.449E-08	5.491E-08	5.457E-08	5.386E-08	5.424E-08	5.450E-08	5.390E-08	5.450E-08	5.386E-08	5.239E-08	5.184E-08	5.322E-08	5.277E-08	5.277E-08	0.000E+00	0.000E+00
NO2	R1b_5029	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.567E-08	5.578E-08	5.553E-08	5.501E-08	5.489E-08	5.483E-08	5.494E-08	5.459E-08	5.422E-08	5.335E-08	5.326E-08	5.266E-08	5.254E-08	5.254E-08	0.000E+00	0.000E+00
NO2	R1b_5029	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.170E-08	5.212E-08	5.280E-08	5.321E-08	5.307E-08	5.252E-08	5.237E-08	5.208E-08	5.193E-08	5.091E-08	5.061E-08	5.091E-08	5.032E-08	5.032E-08	0.000E+00	0.000E+00
NO2	R1b_5029	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.192E-08	5.286E-08	5.239E-08	5.223E-08	5.162E-08	5.223E-08	5.208E-08	5.223E-08	5.160E-08	5.114E-08	5.098E-08	4.989E-08	4.958E-08	4.974E-08	0.000E+00	0.000E+00
NO2	R1b_5029	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.993E-08	5.031E-08	4.974E-08	4.999E-08	5.055E-08	5.032E-08	5.034E-08	4.850E-08	4.999E-08	4.991E-08	4.777E-08	4.670E-08	4.658E-08	4.638E-08	0.000E+00	0.000E+00
NO2	R1b_5029	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.734E-08	4.777E-08	4.884E-08	5.106E-08	4.884E-08	4.827E-08	4.884E-08	4.919E-08	4.838E-08	4.668E-08	4.691E-08	4.691E-08	4.649E-08	4.627E-08	0.000E+00	0.000E+00
NO2	R1b_5029	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.820E-08	4.918E-08	5.055E-08	5.054E-08	5.119E-08	5.140E-08	5.140E-08	5.019E-08	4.884E-08	4.820E-08	4.734E-08	4.646E-08	4.691E-08	4.649E-08	0.000E+00	0.000E+00
NO2	R1b_5029	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.506E-08	5.501E-08	5.541E-08	5.503E-08	5.567E-08	5.546E-08	5.554E-08	5.588E-08	5.567E-08	5.588E-08	5.610E-08	5.546E-08	5.581E-08	5.541E-08	0.000E+00	0.000E+00
NO2	R1b_5029	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.457E-08	5.462E-08	5.417E-08	5.417E-08	5.364E-08	5.332E-08	5.332E-08	5.257E-08	5.238E-08	5.276E-08	5.205E-08	5.152E-08	5.098E-08	5.098E-08	0.000E+00	0.000E+00
NO2	R1b_5029	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.648E-08	5.627E-08	5.604E-08	5.623E-08	5.637E-08	5.637E-08	5.650E-08	5.623E-08	5.637E-08	5.578E-08	5.681E-08	5.681E-08	5.643E-08	5.630E-08	0.000E+00	0.000E+00
NO2	R1b_5029	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.902E-08	5.894E-08	5.895E-08	5.898E-08	5.917E-08	5.912E-08	5.902E-08	5.902E-08	5.881E-08	5.881E-08	5.874E-08	5.932E-08	5.904E-08	5.904E-08	0.000E+00	0.000E+00
NO2	R5_5027	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.430E-06	3.296E-06	3.294E-06	3.310E-06	3.315E-06	3.303E-06	3.291E-06	3.253E-06	3.259E-06	3.261E-06	3.249E-06	3.236E-06	3.224E-06	3.212E-06	3.242E-06	3.285E-06	0.000E+00
NO2	R5_5027	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.250E-06	3.126E-06	3.144E-06	3.129E-06	3.099E-06	3.106E-06	3.092E-06	3.104E-06	3.119E-06	3.075E-06	3.009E-06	2.985E-06	3.043E-06	3.015E-06	3.015E-06	3.050E-06	0.000E+00
NO2	R5_5027	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.287E-06	3.183E-06	3.183E-06	3.156E-06	3.127E-06	3.119E-06	3.106E-06	3.141E-06	3.113E-06	3.092E-06	3.052E-06	3.037E-06	3.007E-06	3.022E-06	2.992E-06	3.029E-06	0.000E+00
NO2	R5_5027	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.018E-06	2.938E-06	2.930E-06	2.962E-06	2.978E-06	2.962E-06	2.962E-06	2.993E-06	2.978E-06	2.929E-06	2.896E-06	2.904E-06	2.912E-06	2.870E-06	2.879E-06	2.879E-06	0.000E+00
NO2	R5_5027	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.126E-06	2.951E-06	2.987E-06	2.969E-06	2.951E-06	2.941E-06	2.933E-06	2.959E-06	2.969E-06	2.933E-06	2.923E-06	2.941E-06	2.869E-06	2.869E-06	2.860E-06	2.878E-06	0.000E+00
NO2	R5_5027	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.968E-06	2.833E-06	2.789E-06	2.778E-06	2.778E-06	2.774E-06	2.748E-06	2.773E-06	2.748E-06	2.711E-06	2.835E-06	2.736E-06	2.674E-06	2.669E-06	2.681E-06	2.657E-06	0.000E+00
NO2	R5_5027	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.773E-06	2.699E-06	2.605E-06	2.631E-06	2.727E-06	2.662E-06	2.631E-06	2.711E-06	2.762E-06	2.751E-06	2.644E-06	2.662E-06	2.686E-06	2.662E-06	2.649E-06	2.649E-06	0.000E+00
NO2	R5_5027	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.810E-06	2.711E-06	2.750E-06	2.810E-06	2.823E-06	2.832E-06	2.809E-06	2.761E-06	2.821E-06	2.761E-06	2.736E-06	2.699E-06	2.657E-06	2.686E-06	2.605E-06	2.727E-06	0.000E+00
NO2	R5_5027	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.215E-06	3.135E-06	3.150E-06	3.135E-06	3.135E-06	3.170E-06	3.133E-06	3.157E-06	3.170E-06	3.170E-06	3.170E-06	3.207E-06	3.170E-06	3.145E-06	3.145E-06	3.158E-06	0.000E+00
NO2	R5_5027	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.253E-06	3.123E-06	3.113E-06	3.103E-06	3.093E-06	3.021E-06	3.032E-06	3.042E-06	3.021E-06	2.991E-06	2.942E-06	2.920E-06	2.909E-06	2.898E-06	2.898E-06	3.145E-06	0.000E+00
NO2	R5_5027	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.385E-06	3.233E-06	3.210E-06	3.238E-06	3.231E-06	3.238E-06	3.231E-06	3.224E-06	3.216E-06	3.224E-06	3.177E-06	3.248E-06	3.256E-06	3.232E-06	3.238E-06	3.259E-06	0.000E+00
NO2	R5_5027	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.516E-06	3.394E-06	3.392E-06	3.390E-06	3.383E-06	3.395E-06	3.389E-06	3.389E-06	3.395E-06	3.377E-06	3.383E-06	3.384E-06	3.417E-06	3.406E-06	3.406E-06	3.383E-06	0.000E+00
NO2	R6_5028	1	2.052E-06	2.046E-06	2.054E-06	2.060E-06	2.060E-06	2.052E-06	2.046E-06	4.035E-06	3.799E-06	3.804E-06	3.829E-06	3.838E-06	3.835E-06	3.842E-06	3.788E-06	3.773E-06	3.779E-06	3.744E-06	3.723E-06	3.709E-06	3.702E-06	3.730E-06	3.779E-06	2.034E-06
NO2	R6_5028	2	1.935E-06	1.946E-06	1.950E-06	1.953E-06	1.964E-06	1.953E-06	1.927E-06	3.835E-06	3.618E-06	3.646E-06	3.631E-06	3.609E-06	3.602E-06	3.619E-06	3.579E-06	3.588E-06	3.533E-06	3.479E-06	3.442E-06	3.497E-06	3.465E-06	3.504E-06	3.504E-06	1.886E-06
NO2	R6_5028	3	1.862E-06	1.858E-06	1.882E-06	1.906E-06	1.918E-06	1.914E-06	1.934E-06	3.898E-06	3.696E-06	3.704E-06	3.688E-06	3.653E-06	3.645E-06	3.641E-06	3.641E-06	3.625E-06	3.593E-06	3.525E-06	3.500E-06	3.497E-06	3.489E-06	3.489E-06	3.489E-06	1.875E-06
NO2	R6_5028	4	1.773E-06	1.773E-06	1.799E-06	1.799E-06	1.783E-06	1.783E-06	1.788E-06	3.596E-06	3.424E-06	3.442E-06	3.488E-06	3.524E-06	3.468E-06	3.468E-06	3.468E-06	3.438E-06	3.429E-06	3.371E-06	3.351E-06	3.371E-06	3.322E-06	3.331E-06	3.322E-06	1.757E-06
NO2	R6_5028	5	1.790E-06	1.794E-06	1.799E-06	1.804E-06	1.809E-06	1.820E-06	1.835E-06	3.714E-06	3.437E-06	3.499E-06	3.479E-06	3.428E-06	3.417E-06	3.468E-06	3.458E-06	3.458E-06	3.427E-06	3.396E-06	3.385E-06	3.313E-06	3.303E-06	3.303E-06	3.323E-06	1.785E-06
NO2	R6_5028	6	1.651E-06	1.629E-06	1.601E-06	1.601E-06	1.636E-06	1.681E-06	1.756E-06	3.520E-06	3.315E-06	3.340E-06	3.290E-06	3.293E-06	3.328E-06	3.356E-06	3.314E-06	3.257E-06	3.280E-06	3.314E-06	3.158E-06	3.087E-06	3.093E-06	3.080E-06	3.066E-06	1.629E-06
NO2	R6_5028	7	1.602E-06	1.617E-06	1.625E-06	1.606E-06	1.632E-06	1.625E-06	1.602E-06	3.318E-06	3.144E-06	3.144E-06	3.215E-06	3.340E-06	3.186E-06	3.160E-06	3.215E-06	3.253E-06	3.213E-06	3.100E-06	3.101E-06	3.115E-06	3.087E-06	3.073E-06	3.073E-06	1.625E-06
NO2	R6_5028	8	1.679E-06	1.602E-06	1.636E-06	1.636E-06	1.644E-06	1.636E-06	1.651E-06	3.361E-06	3.200E-06	3.251E-06	3.356E-06	3.341E-06	3.356E-06	3.373E-06	3.356E-06	3.320E-06	3.243E-06	3.200E-06	3.144E-06	3.085E-06	3.115E-06	3.025E-06	3.253E-06	1.640E-06
NO2	R6_5028	9	1.943E-06	1.923E-06	1.932E-06	1.926E-06	1.930E-06	1.924E-06	1.924E-06	3.838E-06	3.629E-06	3.653E-06	3.680E-06	3.668E-06	3.697E-06	3.683E-06	3.688E-06	3.711E-06	3.711E-06	3.697E-06	3.725E-06	3.683E-06	3.683E-06	3.680E-06	3.680E-06	1.942E-06
NO2	R6_5028	10	1.941E-06	1.895E-06	1.873E-06	1.868E-06	1.887E-06	1.887E-06	1.918E-06	3.850E-06	3.624E-06	3.627E-06	3.597E-06	3.586E-06	3.550E-06	3.516E-06	3.516E-06	3.478E-06	3.453E-06	3.479E-06	3.444E-06	3.409E-06	3.385E-06	3.385E-06	3.656E-06	1.947E-06
NO2	R6_5028	11	1.981E-06	1.990E-06	1.998E-06	2.006E-06	2.002E-06	1.998E-06	2.002E-06	3.989E-06	3.743E-06	3.728E-06	3.721E-06	3.734E-06	3.743E-06	3.743E-06	3.752E-06	3.734E-06	3.734E-06	3.704E-06	3.773E-06	3.752E-06	3.756E-06	3.739E-06	3.752E-06	1.990E-06
NO2	R6_5028	12	2.086E-06	2.083E-06	2.094E-06	2.097E-06	2.100E-06	2.103E-06	2.100E-06	4.142E-06	3.914E-06	3.902E-06	3.903E-06	3.910E-06	3.923E-06	3.926E-06	3.919E-06	3.912E-06	3.905E-06	3.905E-06	3.900E-06	3.939E-06	3.921E-06	3.927E-06	3.914E-06	2.086E-06

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For NO and NO2 Short-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	R7_5028	1	4.104E-06	4.092E-06	4.109E-06	4.120E-06	4.120E-06	4.103E-06	4.092E-06	4.253E-06	4.194E-06	4.200E-06	4.227E-06	4.237E-06	4.234E-06	4.242E-06	4.182E-06	4.166E-06	4.172E-06	4.134E-06	4.110E-06	4.095E-06	4.087E-06	4.118E-06	4.115E-06	4.068E-06
NO2	R7_5028	2	3.869E-06	3.892E-06	3.899E-06	3.907E-06	3.929E-06	3.907E-06	3.854E-06	4.035E-06	3.994E-06	4.025E-06	4.009E-06	3.984E-06	3.977E-06	3.996E-06	3.951E-06	3.961E-06	3.901E-06	3.840E-06	3.800E-06	3.860E-06	3.825E-06	3.868E-06	3.816E-06	3.772E-06
NO2	R7_5028	3	3.724E-06	3.715E-06	3.764E-06	3.812E-06	3.836E-06	3.828E-06	3.868E-06	4.103E-06	4.081E-06	4.090E-06	4.071E-06	4.033E-06	4.024E-06	4.019E-06	4.019E-06	4.002E-06	3.966E-06	3.892E-06	3.864E-06	3.860E-06	3.852E-06	3.852E-06	3.799E-06	3.749E-06
NO2	R7_5028	4	3.546E-06	3.546E-06	3.598E-06	3.598E-06	3.566E-06	3.566E-06	3.577E-06	3.775E-06	3.780E-06	3.800E-06	3.851E-06	3.891E-06	3.828E-06	3.828E-06	3.828E-06	3.796E-06	3.785E-06	3.721E-06	3.700E-06	3.721E-06	3.668E-06	3.678E-06	3.618E-06	3.515E-06
NO2	R7_5028	5	3.580E-06	3.587E-06	3.598E-06	3.608E-06	3.618E-06	3.639E-06	3.670E-06	3.904E-06	3.795E-06	3.863E-06	3.840E-06	3.784E-06	3.772E-06	3.829E-06	3.818E-06	3.818E-06	3.783E-06	3.749E-06	3.737E-06	3.658E-06	3.646E-06	3.646E-06	3.619E-06	3.569E-06
NO2	R7_5028	6	3.301E-06	3.258E-06	3.202E-06	3.202E-06	3.271E-06	3.362E-06	3.513E-06	3.692E-06	3.660E-06	3.688E-06	3.632E-06	3.635E-06	3.674E-06	3.706E-06	3.659E-06	3.596E-06	3.621E-06	3.659E-06	3.486E-06	3.408E-06	3.415E-06	3.400E-06	3.339E-06	3.258E-06
NO2	R7_5028	7	3.204E-06	3.234E-06	3.250E-06	3.212E-06	3.265E-06	3.250E-06	3.204E-06	3.473E-06	3.471E-06	3.471E-06	3.549E-06	3.688E-06	3.518E-06	3.489E-06	3.549E-06	3.591E-06	3.547E-06	3.422E-06	3.424E-06	3.439E-06	3.408E-06	3.392E-06	3.346E-06	3.250E-06
NO2	R7_5028	8	3.358E-06	3.204E-06	3.273E-06	3.273E-06	3.287E-06	3.273E-06	3.301E-06	3.519E-06	3.533E-06	3.589E-06	3.706E-06	3.689E-06	3.706E-06	3.724E-06	3.706E-06	3.665E-06	3.580E-06	3.533E-06	3.471E-06	3.406E-06	3.439E-06	3.339E-06	3.542E-06	3.280E-06
NO2	R7_5028	9	3.886E-06	3.846E-06	3.865E-06	3.852E-06	3.859E-06	3.848E-06	3.848E-06	4.038E-06	4.006E-06	4.033E-06	4.062E-06	4.050E-06	4.081E-06	4.066E-06	4.071E-06	4.097E-06	4.097E-06	4.081E-06	4.113E-06	4.066E-06	4.066E-06	4.062E-06	4.007E-06	3.885E-06
NO2	R7_5028	10	3.883E-06	3.790E-06	3.746E-06	3.735E-06	3.774E-06	3.774E-06	3.836E-06	4.052E-06	4.001E-06	4.004E-06	3.971E-06	3.959E-06	3.919E-06	3.881E-06	3.881E-06	3.840E-06	3.812E-06	3.841E-06	3.803E-06	3.763E-06	3.737E-06	3.737E-06	3.981E-06	3.895E-06
NO2	R7_5028	11	3.963E-06	3.980E-06	3.995E-06	4.011E-06	4.004E-06	3.996E-06	4.004E-06	4.203E-06	4.133E-06	4.116E-06	4.109E-06	4.122E-06	4.132E-06	4.132E-06	4.142E-06	4.122E-06	4.122E-06	4.090E-06	4.165E-06	4.142E-06	4.146E-06	4.127E-06	4.086E-06	3.980E-06
NO2	R7_5028	12	4.171E-06	4.165E-06	4.189E-06	4.195E-06	4.200E-06	4.205E-06	4.200E-06	4.369E-06	4.321E-06	4.308E-06	4.309E-06	4.316E-06	4.330E-06	4.334E-06	4.327E-06	4.319E-06	4.311E-06	4.311E-06	4.306E-06	4.349E-06	4.328E-06	4.335E-06	4.262E-06	4.172E-06
NO2	R8_5028	1	4.104E-06	4.092E-06	4.109E-06	4.120E-06	4.120E-06	4.103E-06	4.092E-06	4.267E-06	4.194E-06	4.200E-06	4.227E-06	4.237E-06	4.234E-06	4.242E-06	4.182E-06	4.166E-06	4.172E-06	4.134E-06	4.110E-06	4.095E-06	4.087E-06	4.118E-06	4.115E-06	4.068E-06
NO2	R8_5028	2	3.869E-06	3.892E-06	3.899E-06	3.907E-06	3.929E-06	3.907E-06	3.854E-06	4.050E-06	3.994E-06	4.025E-06	4.009E-06	3.984E-06	3.977E-06	3.996E-06	3.951E-06	3.961E-06	3.901E-06	3.840E-06	3.800E-06	3.860E-06	3.825E-06	3.868E-06	3.816E-06	3.772E-06
NO2	R8_5028	3	3.724E-06	3.715E-06	3.764E-06	3.812E-06	3.836E-06	3.828E-06	3.868E-06	4.118E-06	4.081E-06	4.090E-06	4.071E-06	4.033E-06	4.024E-06	4.019E-06	4.019E-06	4.002E-06	3.966E-06	3.892E-06	3.864E-06	3.860E-06	3.852E-06	3.852E-06	3.799E-06	3.749E-06
NO2	R8_5028	4	3.546E-06	3.546E-06	3.598E-06	3.598E-06	3.566E-06	3.566E-06	3.577E-06	3.789E-06	3.780E-06	3.800E-06	3.851E-06	3.891E-06	3.828E-06	3.828E-06	3.828E-06	3.796E-06	3.785E-06	3.721E-06	3.700E-06	3.721E-06	3.668E-06	3.678E-06	3.618E-06	3.515E-06
NO2	R8_5028	5	3.580E-06	3.587E-06	3.598E-06	3.608E-06	3.618E-06	3.639E-06	3.670E-06	3.918E-06	3.795E-06	3.863E-06	3.840E-06	3.784E-06	3.772E-06	3.829E-06	3.818E-06	3.818E-06	3.783E-06	3.749E-06	3.737E-06	3.658E-06	3.646E-06	3.646E-06	3.619E-06	3.569E-06
NO2	R8_5028	6	3.301E-06	3.258E-06	3.202E-06	3.202E-06	3.271E-06	3.362E-06	3.513E-06	3.707E-06	3.660E-06	3.688E-06	3.632E-06	3.635E-06	3.674E-06	3.706E-06	3.659E-06	3.596E-06	3.621E-06	3.659E-06	3.486E-06	3.408E-06	3.415E-06	3.400E-06	3.339E-06	3.258E-06
NO2	R8_5028	7	3.204E-06	3.234E-06	3.250E-06	3.212E-06	3.265E-06	3.250E-06	3.204E-06	3.487E-06	3.471E-06	3.471E-06	3.549E-06	3.688E-06	3.518E-06	3.489E-06	3.549E-06	3.591E-06	3.547E-06	3.422E-06	3.424E-06	3.439E-06	3.408E-06	3.392E-06	3.346E-06	3.250E-06
NO2	R8_5028	8	3.358E-06	3.204E-06	3.273E-06	3.273E-06	3.287E-06	3.273E-06	3.301E-06	3.533E-06	3.533E-06	3.589E-06	3.706E-06	3.689E-06	3.706E-06	3.724E-06	3.706E-06	3.665E-06	3.580E-06	3.533E-06	3.471E-06	3.406E-06	3.439E-06	3.339E-06	3.542E-06	3.280E-06
NO2	R8_5028	9	3.886E-06	3.846E-06	3.865E-06	3.852E-06	3.859E-06	3.848E-06	3.848E-06	4.053E-06	4.006E-06	4.033E-06	4.062E-06	4.050E-06	4.081E-06	4.066E-06	4.071E-06	4.097E-06	4.097E-06	4.081E-06	4.113E-06	4.066E-06	4.066E-06	4.062E-06	4.007E-06	3.885E-06
NO2	R8_5028	10	3.883E-06	3.790E-06	3.746E-06	3.735E-06	3.774E-06	3.774E-06	3.836E-06	4.066E-06	4.001E-06	4.004E-06	3.971E-06	3.959E-06	3.919E-06	3.881E-06	3.881E-06	3.840E-06	3.812E-06	3.841E-06	3.803E-06	3.763E-06	3.737E-06	3.737E-06	3.981E-06	3.895E-06
NO2	R8_5028	11	3.963E-06	3.980E-06	3.995E-06	4.011E-06	4.004E-06	3.996E-06	4.004E-06	4.217E-06	4.133E-06	4.116E-06	4.109E-06	4.122E-06	4.132E-06	4.132E-06	4.142E-06	4.122E-06	4.122E-06	4.090E-06	4.165E-06	4.142E-06	4.146E-06	4.127E-06	4.086E-06	3.980E-06
NO2	R8_5028	12	4.171E-06	4.165E-06	4.189E-06	4.195E-06	4.200E-06	4.205E-06	4.200E-06	4.383E-06	4.321E-06	4.308E-06	4.309E-06	4.316E-06	4.330E-06	4.334E-06	4.327E-06	4.319E-06	4.311E-06	4.311E-06	4.306E-06	4.349E-06	4.328E-06	4.335E-06	4.262E-06	4.172E-06
NO2	R9a_5028	1	5.355E-06	5.339E-06	5.361E-06	5.376E-06	5.376E-06	5.354E-06	5.339E-06	7.075E-06	7.038E-06	7.047E-06	7.093E-06	7.109E-06	7.104E-06	7.117E-06	7.017E-06	6.990E-06	7.000E-06	6.936E-06	6.897E-06	6.871E-06	6.858E-06	6.910E-06	6.943E-06	5.308E-06
NO2	R9a_5028	2	5.048E-06	5.078E-06	5.087E-06	5.097E-06	5.126E-06	5.097E-06	5.029E-06	6.708E-06	6.702E-06	6.754E-06	6.727E-06	6.685E-06	6.672E-06	6.704E-06	6.630E-06	6.646E-06	6.545E-06	6.444E-06	6.377E-06	6.477E-06	6.419E-06	6.491E-06	6.438E-06	4.922E-06
NO2	R9a_5028	3	4.859E-06	4.847E-06	4.911E-06	4.974E-06	5.005E-06	4.995E-06	5.047E-06	6.823E-06	6.847E-06	6.862E-06	6.831E-06	6.767E-06	6.752E-06	6.744E-06	6.744E-06	6.714E-06	6.655E-06	6.531E-06	6.483E-06	6.477E-06	6.463E-06	6.463E-06	6.410E-06	4.892E-06
NO2	R9a_5028	4	4.626E-06	4.626E-06	4.694E-06	4.694E-06	4.653E-06	4.653E-06	4.667E-06	6.268E-06	6.343E-06	6.377E-06	6.461E-06	6.529E-06	6.424E-06	6.424E-06	6.424E-06	6.369E-06	6.351E-06	6.244E-06	6.207E-06	6.244E-06	6.154E-06	6.171E-06	6.104E-06	4.586E-06
NO2	R9a_5028	5	4.672E-06	4.680E-06	4.694E-06	4.707E-06	4.721E-06	4.748E-06	4.788E-06	6.486E-06	6.367E-06	6.482E-06	6.444E-06	6.350E-06	6.330E-06	6.425E-06	6.406E-06	6.406E-06	6.348E-06	6.291E-06	6.271E-06	6.137E-06	6.118E-06	6.118E-06	6.106E-06	4.657E-06
NO2	R9a_5028	6	4.307E-06	4.251E-06	4.177E-06	4.177E-06	4.268E-06	4.387E-06	4.584E-06	6.129E-06	6.142E-06	6.188E-06	6.095E-06	6.100E-06	6.165E-06	6.218E-06	6.139E-06	6.034E-06	6.075E-06	6.139E-06	5.849E-06	5.719E-06	5.729E-06	5.705E-06	5.634E-06	4.251E-06
NO2	R9a_5028	7	4.181E-06	4.220E-06	4.240E-06	4.191E-06	4.260E-06	4.240E-06	4.181E-06	5.758E-06	5.823E-06	5.823E-06	5.955E-06	6.188E-06	5.902E-06	5.855E-06	5.955E-06	6.026E-06	5.951E-06	5.742E-06	5.745E-06	5.771E-06	5.719E-06	5.692E-06	5.646E-06	4.240E-06
NO2	R9a_5028	8	4.382E-06	4.181E-06	4.270E-06	4.270E-06	4.289E-06	4.270E-06	4.307E-06	5.837E-06	5.928E-06	6.022E-06	6.218E-06	6.189E-06	6.218E-06	6.248E-06	6.218E-06	6.150E-06	6.007E-06	5.928E-06	5.823E-06	5.714E-06	5.771E-06	5.603E-06	5.976E-06	4.279E-06
NO2	R9a_5028	9	5.071E-06	5.018E-06	5.042E-06	5.026E-06	5.035E-06	5.020E-06	5.020E-06	6.713E-06	6.722E-06	6.767E-06	6.816E-06	6.795E-06	6.848E-06	6.822E-06	6.832E-06	6.874E-06	6.874E-06	6.848E-06	6.901E-06	6.822E-06	6.822E-06	6.816E-06	6.761E-06	5.068E-06
NO2	R9a_5028	10	5.066E-06	4.946E-06	4.888E-06	4.873E-06	4.924E-06	4.924E-06	5.005E-06	6.735E-06	6.713E-06	6.719E-06	6.664E-06	6.642E-06	6.576E-06	6.513E-06	6.513E-06	6.443E-06	6.397E-06	6.445E-06	6.380E-06	6.314E-06	6.271E-06	6.271E-06	6.717E-06	5.082E-06
NO2	R9a_5028	11	5.170E-06	5.192E-06	5.213E-06	5.234E-06	5.224E-06	5.214E-06	5.224E-06	6.991E-06	6.934E-06	6.907E-06	6.894E-06	6.916E-06	6.933E-06	6.933E-06	6.950E-06	6.916E-06	6.916E-06	6.862E-06	6.988E-06	6.950E-06	6.957E-06	6.926E-06	6.894E-06	5.192E-06
NO2	R9a_5028	12	5.442E-06	5.434E-06	5.465E-06	5.473E-06	5.479E-06	5.487E-06	5.479E-06	7.271E-06	7.250E-06	7.229E-06	7.230E-06	7.242E-06	7.266E-06	7.273E-06	7.260E-06	7.247E-06	7.234E-06	7.234E-06	7.225E-06	7.296E-06	7.263E-06	7.274E-06	7.192E-06	5.443E-06
NO2	R9b_5027	1	3.268E-06	3.273E-06	3.273E-06	3.283E-06	3.298E-06	3.288E-06	3.274E-06	6.779E-06	6.621E-06	6.616E-06	6.648E-06	6.658E-06	6.636E-06	6.611E-06	6.534E-06	6.547E-06	6.550E-06	6.525E-06	6.501E-06	6.476E-06	6.452E-06	6.484E-06	6.514E-06	3.251E-06
NO2	R9b_5027	2	3.090E-06	3.081E-06	3.120E-06	3.120E-06	3.144E-06	3.126E-06	3.084E-06	6.422E-06	6.280E-06	6.316E-06	6.285E-06	6.225E-06	6.239E-06	6.211E-06	6.235E-06	6.266E-06	6.176E-06	6.045E-06	5.997E-06	6.112E-06	6.057E-06	6.030E-06	6.047E-06	3.024E-06
NO2	R9b_5027	3	2.983E-06	2.976E-06	2.976E-06	3.061E-06	3.074E-06	3.074E-06	3.058E-06	6.496E-06	6.393E-06	6.393E-06	6.340E-06	6.281E-06	6.266E-06	6.239E-06	6.309E-06	6.253E-06	6.211E-06	6.131E-06	6.101E-06	6.041E-06	6.070E-06	5.984E-06	6.005E-06	2.983E-06
NO2	R9b_5027	4	2.837E-06	2.828E-06	2.854E-06	2.878E-06	2.854E-06	2.854E-06	2.854E-06	5.961E-06	5.901E-06	5.885E-06	5.949E-06	5.981E-06	5.949E-06	5.949E-06	6.013E-06	5.981E-06	5.884E-06	5.817E-06	5.834E-06	5.850E-06	5.765E-06	5.757E-06	5.707E-06	2.820E-06
NO2	R9b_5027	5	2.855E-06	2.819E-06	2.878E-06	2.878E-06	2.895E-06	2.912E-06	2.920E-06	6.177E-06	5.927E-06	6.000E-06	5.963E-06	5.927E-06	5.908E-06	5.891E-06	5.945E-06	5.963E-06	5.891E-06	5.872E-06	5.908E-06	5.763E-06	5.763E-06	5.719E-06	5.706E-06	2.846E-06
NO2	R9b_5027	6	2.554E-06	2.554E-06	2.565E-06	2.554E-06	2.611E-06	2.686E-06	2.751E-06	5.864E-06	5.690E-06	5.602E-06	5.580E-06	5.580E-06	5.572E-06	5.520E-06	5.571E-06	5.520E-06	5.446E-06	5.695E-06	5.496E-06	5.371E-06	5.361E-06	5.361E-06	5.268E-06	2.599E-06
NO2	R9b_5027	7	2.554E-06	2.520E-06	2.520E-06	2.559E-06	2.603E-06	2.603E-06	2.554E-06	5.477E-06	5.421E-06	5.232E-06	5.285E-06	5.478E-06	5.346E-06	5.285E-06	5.446E-06	5.549E-06	5.525E-06	5.311E-06	5.346E-06	5.396E-06	5.346E-06	5.297E-06	5.252E-06	2.579E-06
NO2	R9b_5027	8	2.627E-06	2.554E-06	2.634E-06	2.554E-06	2.566E-06	2.622E-06	2.634E-06	5.551E-06	5.446E-06	5.523E-06	5.645E-06	5.670E-06	5.689E-06	5.642E-06	5.545E-06	5.666E-06	5.545E-06	5.496E-06	5.421E-06	5.338E-06	5.396E-06	5.209E-06	5.407E-06	2.615E-06
NO2	R9b_5027	9	3.085E-06	3.052E-06	3.031E-06	3.049E-06	3.039E-06	3.029E-06	3.058E-06	6.353E-06	6.296E-06	6.328E-06	6.298E-06	6.298E-06	6.368E-06	6.292E-06	6.342E-06	6.367E-06	6.367E-06	6.367E-06	6.442E-06	6.367E-06	6.318E-06	6.290E-06	6.262E-06	3.081E-06
NO2	R9b_5027	10	3.087E-06	2.982E-06	2.988E-06	3.015E-06	2.997E-06	3.020E-06	3.062E-06	6.429E-06	6.272E-06	6.253E-06	6.233E-06	6.214E-06	6.069E-06	6.089E-06	6.110E-06	6.069E-06	6.007E-06	5.910E-06	5.866E-06	5.844E-06	5.822E-06	5.796E-06	6.235E-06	3.096E-06
NO2	R9b_5027	11	3.161E-06	3.154E-06	3.183E-06	3.204E-06	3.198E-06	3.198E-06	3.204E-06	6.689E-06	6.495E-06	6.449E-06	6.505E-06	6.490E-06	6.505E-06	6.490E-06	6.477E-06	6.461E-06	6.477E-06	6.381E-06	6.525E-06	6.541E-06	6.493E-06	6.476E-06	6.462E-06	3.175E-06
NO2	R9b_5027	12	3.326E-06	3.327E-06	3.348E-06	3.353E-06	3.348E-06	3.358E-06	3.358E-06	6.951E-06	6.817E-06	6.813E-06	6.809E-06	6.796E-06	6.820E-06	6.808E-06	6.808E-06	6.820E-06	6.783E-06	6.796E-06	6.797E-06	6.863E-06	6.841E-06	6.811E-06	6.708E-06	3.331E-06
NO2	R9b_5028	1	3.303E-06	3.293E-06	3.307E-06	3.316E-06	3.316E-06	3.302E-06	3.293E-06	6.791E-06	6.671E-06	6.680E-06	6.724E-06	6.739E-06	6.735E-06	6.747E-06	6.652E-06	6.626E-06	6.636E-06	6.575E-06	6.538E-06	6.513E-06	6.501E-06	6.521E-06	6.549E-06	3.274E-06
NO2	R9b_5028	2	3.114E-06	3.132E-06	3.138E-06	3.144E-06	3.162E-06	3.144E-06	3.102E-06	6.446E-06	6.353E-06	6.403E-06	6.377E-06	6.337E-06	6.325E-06	6.355E-06	6.285E-06	6.301E-06	6.205E-06	6.109E-06	6.045E-06	6.140E-06	6.085E-06	6.126E-06	6.073E-06	3.036E-06
NO2	R9b_5028	3	2.997E-06	2.990E-06	3.029E-06	3.068E-06	3.087E-06	3.081E-06	3.113E-06	6.554E-06	6.491E-06	6.505E-06	6.475E-06	6.415E-06	6.401E-06	6.393E-06	6.393E-06	6.365E-06	6.309E-06	6.191E-06	6.146E-06	6.140E-06	6.126E-06	6.099E-06	6.047E-06	3.017E-06
NO2	R9b_5028	4	2.854E-06	2.854E-06	2.895E-06	2.895E-06	2.870E-06	2.870E-06	2.878E-06	6.031E-06	6.013E-06	6.045E-06	6.125E-06	6.189E-06	6.089E-06	6.089E-06	6.089E-06	6.038E-06	6.021E-06	5.919E-06	5.884E-06	5.919E-06	5.834E-06	5.824E-06	5.758E-06	2.828E-06
NO2	R9b_5028	5	2.881E-06	2.887E-06	2.895E-06	2.904E-06	2.912E-06	2.929E-06	2.953E-06	6.236E-06	6.036E-06	6.145E-06	6.109E-06	6.020E-06	6.000E-06	6.091E-06	6.072E-06	6.072E-06	6.017E-06	5.963E-06	5.945E-06	5.818E-06	5.799E-06	5.774E-06	5.760E-06	2.872E-06
NO2	R9b_5028	6	2.657E-06	2.622E-06	2.577E-06	2.577E-06	2.633E-06	2.706E-06	2.827E-06	5.900E-06	5.822E-06	5.866E-06	5.778E-06	5.782E-06	5.844E-06	5.894E-06	5.819E-06	5.720E-06	5.759E-06	5.819E-06	5.545E-06	5.421E-06	5.431E-06	5.384E-06	5.315E-06	2.622E-06
NO2	R9b_5028	7	2.579E-06	2.603E-06	2.615E-06	2.585E-06	2.627E-06	2.615E-06	2.579E-06	5.550E-06	5.520E-06	5.520E-06	5.645E-06	5.866E-06	5.595E-06	5.550E-06	5.645E-06	5.712E-06	5.642E-06	5.444E-06	5.446E-06	5.470E-06	5.421E-06	5.372E-06	5.325E-06	2.615E-06
NO2	R9b_5028	8	2.703E-06	2.579E-06	2.634E-06	2.634E-06	2.645E-06	2.634E-06	2.657E-06	5.624E-06	5.620E-06	5.708E-06	5.894E-06	5.867E-06	5.894E-06	5.923E-06	5.894E-06	5.830E-06	5.695E-06	5.620E-06	5.520E-06	5.417E-06	5.470E-06	5.288E-06	5.637E-06	2.639E-06
NO2	R9b_5028	9	3.128E-06	3.095E-06	3.110E-06	3.100E-06	3.106E-06	3.096E-06	3.096E-06	6.450E-06	6.372E-06	6.415E-06	6.462E-06	6.442E-06	6.492E-06	6.467E-06	6.476E-06	6.517E-06	6.517E-06	6.492E-06	6.542E-06	6.467E-06	6.467E-06	6.433E-06	6.378E-06	3.126E-06
NO2	R9b_5028	10	3.125E-06	3.050E-06	3.015E-06	3.006E-06	3.037E-06	3.037E-06	3.087E-06	6.471E-06	6.364E-06	6.369E-06	6.317E-06	6.296E-06	6.234E-06	6.174E-06	6.174E-06	6.108E-06	6.064E-06	6.110E-06	6.048E-06	5.986E-06	5.945E-06	5.918E-06	6.336E-06	3.134E-06
NO2	R9b_5028	11	3.189E-06	3.203E-06	3.215E-06	3.228E-06	3.222E-06	3.216E-06	3.222E-06	6.712E-06	6.573E-06	6.547E-06	6.535E-06	6.556E-06	6.573E-06	6.573E-06	6.589E-06	6.556E-06	6.556E-06	6.505E-06	6.625E-06	6.589E-06	6.595E-06	6.536E-06	6.503E-06	3.203E-06
NO2	R9b_5028	12	3.357E-06	3.352E-06	3.371E-06	3.376E-06	3.380E-06	3.384E-06	3.380E-06	6.977E-06	6.873E-06	6.852E-06	6.854E-06	6.865E-06	6.888E-06	6.894E-06	6.882E-06	6.870E-06	6.857E-06	6.857E-06	6.849E-06	6.917E-06	6.885E-06	6.865E-06	6.784E-06	3.357E-06
NO2	R9c_5027	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.627E-08	8.620E-08	8.662E-08	8.675E-08	8.646E-08	8.613E-08	8.513E-08	8.530E-08	8.534E-08	8.502E-08	8.470E-08	8.437E-08	8.406E-08	5.586E-08	0.000E+00	0.000E+00
NO2	R9c_5027	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.182E-08	8.229E-08	8.188E-08	8.110E-08	8.128E-08	8.092E-08	8.124E-08	8.163E-08	8.046E-08	7.876E-08	7.813E-08	7.963E-08	7.891E-08	5.194E-08	0.000E+00	0.000E+00
NO2	R9c_5027	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.329E-08	8.329E-08	8.261E-08	8.183E-08	8.163E-08	8.128E-08	8.220E-08	8.146E-08	8.092E-08	7.987E-08	7.949E-08	7.870E-08	7.909E-08	5.155E-08	0.000E+00	0.000E+00
NO2	R9c_5027	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.688E-08	7.668E-08	7.751E-08	7.793E-08	7.751E-08	7.751E-08	7.834E-08	7.793E-08	7.667E-08	7.578E-08	7.601E-08	7.622E-08	7.511E-08	4.959E-08	0.000E+00	0.000E+00
NO2	R9c_5027	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.722E-08	7.817E-08	7.769E-08	7.722E-08	7.698E-08	7.675E-08	7.745E-08	7.769E-08	7.675E-08	7.651E-08	7.698E-08	7.509E-08	7.509E-08	4.927E-08	0.000E+00	0.000E+00
NO2	R9c_5027	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.413E-08	7.299E-08	7.270E-08	7.270E-08	7.259E-08	7.192E-08	7.258E-08	7.192E-08	7.095E-08	7.419E-08	7.160E-08	6.998E-08	6.984E-08	4.618E-08	0.000E+00	0.000E+00
NO2	R9c_5027	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.063E-08	6.816E-08	6.885E-08	7.137E-08	6.966E-08	6.885E-08	7.095E-08	7.229E-08	7.199E-08	6.920E-08	6.966E-08	7.030E-08	6.966E-08	4.563E-08	0.000E+00	0.000E+00
NO2	R9c_5027	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.095E-08	7.196E-08	7.355E-08	7.387E-08	7.412E-08	7.351E-08	7.225E-08	7.382E-08	7.225E-08	7.160E-08	7.063E-08	6.955E-08	7.030E-08	4.487E-08	0.000E+00	0.000E+00
NO2	R9c_5027	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.203E-08	8.245E-08	8.205E-08	8.205E-08	8.296E-08	8.198E-08	8.263E-08	8.295E-08	8.295E-08	8.295E-08	8.393E-08	8.295E-08	8.231E-08	5.418E-08	0.000E+00	0.000E+00
NO2	R9c_5027	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.172E-08	8.146E-08	8.121E-08	8.095E-08	7.907E-08	7.934E-08	7.961E-08	7.907E-08	7.827E-08	7.700E-08	7.643E-08	7.614E-08	7.585E-08	4.993E-08	0.000E+00	0.000E+00
NO2	R9c_5027	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.462E-08	8.402E-08	8.475E-08	8.456E-08	8.475E-08	8.456E-08	8.438E-08	8.418E-08	8.438E-08	8.313E-08	8.501E-08	8.521E-08	8.459E-08	5.578E-08	0.000E+00	0.000E+00
NO2	R9c_5027	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.881E-08	8.876E-08	8.872E-08	8.855E-08	8.885E-08	8.870E-08	8.870E-08	8.886E-08	8.838E-08	8.854E-08	8.855E-08	8.942E-08	8.914E-08	5.867E-08	0.000E+00	0.000E+00

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	R11_5028	1	3.572E-05	3.572E-05	3.617E-05	3.617E-05	3.617E-05	3.617E-05	3.617E-05	9.406E-05	9.075E-05	9.036E-05	8.975E-05	8.999E-05	9.046E-05	9.046E-05	8.914E-05	8.889E-05	8.951E-05	8.904E-05	8.856E-05	8.833E-05	8.761E-05	8.710E-05	8.850E-05	3.581E-05
NO	R11_5028	2	3.382E-05	3.382E-05	3.372E-05	3.372E-05	3.419E-05	3.419E-05	3.410E-05	8.784E-05	8.509E-05	8.476E-05	8.557E-05	8.477E-05	8.506E-05	8.506E-05	8.506E-05	8.477E-05	8.419E-05	8.476E-05	8.421E-05	8.367E-05	8.433E-05	8.358E-05	8.333E-05	3.372E-05
NO	R11_5028	3	3.333E-05	3.382E-05	3.372E-05	3.382E-05	3.382E-05	3.382E-05	3.392E-05	8.771E-05	8.502E-05	8.419E-05	8.506E-05	8.534E-05	8.506E-05	8.397E-05	8.397E-05	8.366E-05	8.448E-05	8.362E-05	8.304E-05	8.421E-05	8.367E-05	8.264E-05	8.264E-05	3.344E-05
NO	R11_5028	4	3.168E-05	3.168E-05	3.168E-05	3.155E-05	3.155E-05	3.143E-05	3.168E-05	8.207E-05	7.786E-05	7.855E-05	7.960E-05	7.864E-05	7.864E-05	7.864E-05	7.901E-05	7.864E-05	7.960E-05	7.821E-05	7.892E-05	7.892E-05	7.794E-05	7.716E-05	7.684E-05	3.168E-05
NO	R11_5028	5	3.096E-05	3.083E-05	3.083E-05	3.083E-05	3.083E-05	3.083E-05	3.109E-05	8.062E-05	7.786E-05	7.716E-05	7.753E-05	7.790E-05	7.827E-05	7.827E-05	7.689E-05	7.611E-05	7.679E-05	7.605E-05	7.531E-05	7.682E-05	7.577E-05	7.498E-05	7.464E-05	3.020E-05
NO	R11_5028	6	2.888E-05	2.888E-05	2.856E-05	2.856E-05	2.856E-05	2.856E-05	2.903E-05	7.679E-05	7.256E-05	7.181E-05	7.270E-05	7.270E-05	7.358E-05	7.314E-05	7.314E-05	7.314E-05	7.270E-05	7.226E-05	7.298E-05	7.298E-05	7.131E-05	7.047E-05	7.006E-05	2.835E-05
NO	R11_5028	7	2.885E-05	2.885E-05	2.885E-05	2.885E-05	2.868E-05	2.868E-05	2.885E-05	7.521E-05	7.181E-05	7.314E-05	7.254E-05	7.300E-05	7.300E-05	7.300E-05	7.300E-05	7.254E-05	7.160E-05	7.314E-05	7.226E-05	7.181E-05	7.256E-05	7.213E-05	7.172E-05	2.902E-05
NO	R11_5028	8	2.852E-05	2.919E-05	2.903E-05	2.903E-05	2.903E-05	2.903E-05	2.951E-05	7.639E-05	7.226E-05	7.403E-05	7.348E-05	7.394E-05	7.348E-05	7.300E-05	7.300E-05	7.254E-05	7.358E-05	7.226E-05	7.093E-05	7.093E-05	7.214E-05	7.130E-05	7.089E-05	2.868E-05
NO	R11_5028	9	3.093E-05	3.148E-05	3.133E-05	3.148E-05	3.148E-05	3.148E-05	3.163E-05	8.353E-05	7.965E-05	7.924E-05	8.049E-05	7.979E-05	7.979E-05	7.979E-05	7.979E-05	7.890E-05	7.846E-05	7.966E-05	7.882E-05	7.840E-05	7.925E-05	7.840E-05	7.761E-05	3.140E-05
NO	R11_5028	10	3.300E-05	3.300E-05	3.345E-05	3.332E-05	3.319E-05	3.319E-05	3.319E-05	8.726E-05	8.307E-05	8.377E-05	8.344E-05	8.381E-05	8.418E-05	8.418E-05	8.318E-05	8.381E-05	8.307E-05	8.233E-05	8.159E-05	8.086E-05	8.203E-05	8.120E-05	8.120E-05	3.286E-05
NO	R11_5028	11	3.518E-05	3.576E-05	3.576E-05	3.576E-05	3.620E-05	3.620E-05	3.629E-05	9.442E-05	9.041E-05	9.016E-05	8.995E-05	9.053E-05	8.949E-05	8.949E-05	8.919E-05	8.827E-05	8.851E-05	8.765E-05	8.736E-05	8.707E-05	8.678E-05	8.721E-05	8.721E-05	3.518E-05
NO	R11_5028	12	3.676E-05	3.676E-05	3.714E-05	3.722E-05	3.730E-05	3.738E-05	3.738E-05	9.721E-05	9.304E-05	9.258E-05	9.303E-05	9.236E-05	9.260E-05	9.284E-05	9.218E-05	9.168E-05	9.189E-05	9.118E-05	9.070E-05	9.147E-05	9.080E-05	9.105E-05	9.084E-05	3.676E-05
NO	R11a_5028	1	3.572E-05	3.572E-05	3.617E-05	3.617E-05	3.617E-05	3.617E-05	3.617E-05	1.286E-04	1.273E-04	1.267E-04	1.259E-04	1.262E-04	1.269E-04	1.269E-04	1.250E-04	1.246E-04	1.255E-04	1.249E-04	1.242E-04	1.239E-04	1.229E-04	1.223E-04	1.243E-04	3.581E-05
NO	R11a_5028	2	3.382E-05	3.382E-05	3.372E-05	3.372E-05	3.419E-05	3.419E-05	3.410E-05	1.199E-04	1.193E-04	1.188E-04	1.200E-04	1.189E-04	1.193E-04	1.193E-04	1.193E-04	1.189E-04	1.181E-04	1.188E-04	1.181E-04	1.173E-04	1.183E-04	1.174E-04	1.170E-04	3.372E-05
NO	R11a_5028	3	3.333E-05	3.382E-05	3.372E-05	3.382E-05	3.382E-05	3.382E-05	3.392E-05	1.197E-04	1.192E-04	1.181E-04	1.193E-04	1.197E-04	1.193E-04	1.177E-04	1.177E-04	1.173E-04	1.185E-04	1.173E-04	1.164E-04	1.181E-04	1.173E-04	1.161E-04	1.161E-04	3.344E-05
NO	R11a_5028	4	3.168E-05	3.168E-05	3.168E-05	3.155E-05	3.155E-05	3.143E-05	3.168E-05	1.118E-04	1.092E-04	1.102E-04	1.116E-04	1.103E-04	1.103E-04	1.103E-04	1.108E-04	1.103E-04	1.116E-04	1.097E-04	1.107E-04	1.107E-04	1.093E-04	1.084E-04	1.079E-04	3.168E-05
NO	R11a_5028	5	3.096E-05	3.083E-05	3.083E-05	3.083E-05	3.083E-05	3.083E-05	3.109E-05	1.098E-04	1.092E-04	1.082E-04	1.087E-04	1.092E-04	1.097E-04	1.097E-04	1.078E-04	1.067E-04	1.077E-04	1.066E-04	1.056E-04	1.077E-04	1.063E-04	1.053E-04	1.048E-04	3.020E-05
NO	R11a_5028	6	2.888E-05	2.888E-05	2.856E-05	2.856E-05	2.856E-05	2.856E-05	2.903E-05	1.044E-04	1.017E-04	1.007E-04	1.019E-04	1.019E-04	1.032E-04	1.026E-04	1.026E-04	1.026E-04	1.019E-04	1.013E-04	1.023E-04	1.023E-04	9.999E-05	9.899E-05	9.840E-05	2.835E-05
NO	R11a_5028	7	2.885E-05	2.885E-05	2.885E-05	2.885E-05	2.868E-05	2.868E-05	2.885E-05	1.022E-04	1.007E-04	1.026E-04	1.017E-04	1.024E-04	1.024E-04	1.024E-04	1.024E-04	1.017E-04	1.004E-04	1.026E-04	1.013E-04	1.007E-04	1.017E-04	1.013E-04	1.007E-04	2.902E-05
NO	R11a_5028	8	2.852E-05	2.919E-05	2.903E-05	2.903E-05	2.903E-05	2.903E-05	2.951E-05	1.038E-04	1.013E-04	1.038E-04	1.030E-04	1.037E-04	1.030E-04	1.024E-04	1.024E-04	1.017E-04	1.032E-04	1.013E-04	9.946E-05	9.946E-05	1.012E-04	1.002E-04	9.957E-05	2.868E-05
NO	R11a_5028	9	3.093E-05	3.148E-05	3.133E-05	3.148E-05	3.148E-05	3.148E-05	3.163E-05	1.139E-04	1.117E-04	1.111E-04	1.129E-04	1.119E-04	1.119E-04	1.119E-04	1.119E-04	1.106E-04	1.100E-04	1.117E-04	1.105E-04	1.099E-04	1.111E-04	1.101E-04	1.090E-04	3.140E-05
NO	R11a_5028	10	3.300E-05	3.300E-05	3.345E-05	3.332E-05	3.319E-05	3.319E-05	3.319E-05	1.191E-04	1.165E-04	1.175E-04	1.170E-04	1.175E-04	1.180E-04	1.180E-04	1.166E-04	1.175E-04	1.165E-04	1.155E-04	1.144E-04	1.134E-04	1.150E-04	1.141E-04	1.141E-04	3.286E-05
NO	R11a_5028	11	3.518E-05	3.576E-05	3.576E-05	3.576E-05	3.620E-05	3.620E-05	3.629E-05	1.292E-04	1.268E-04	1.264E-04	1.261E-04	1.269E-04	1.255E-04	1.255E-04	1.251E-04	1.238E-04	1.241E-04	1.229E-04	1.225E-04	1.221E-04	1.217E-04	1.225E-04	1.225E-04	3.518E-05
NO	R11a_5028	12	3.676E-05	3.676E-05	3.714E-05	3.722E-05	3.730E-05	3.738E-05	3.738E-05	1.331E-04	1.305E-04	1.298E-04	1.304E-04	1.295E-04	1.298E-04	1.302E-04	1.293E-04	1.286E-04	1.288E-04	1.278E-04	1.272E-04	1.283E-04	1.273E-04	1.279E-04	1.276E-04	3.676E-05
NO	R12_5028	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.233E-05	3.650E-05	3.635E-05	3.610E-05	3.620E-05	3.639E-05	3.639E-05	3.586E-05	3.576E-05	3.601E-05	3.582E-05	3.562E-05	3.553E-05	3.524E-05	3.524E-05	3.581E-05	0.000E+00
NO	R12_5028	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.981E-05	3.423E-05	3.409E-05	3.442E-05	3.410E-05	3.421E-05	3.421E-05	3.421E-05	3.410E-05	3.387E-05	3.409E-05	3.387E-05	3.366E-05	3.392E-05	3.382E-05	3.372E-05	0.000E+00
NO	R12_5028	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.976E-05	3.420E-05	3.387E-05	3.421E-05	3.433E-05	3.421E-05	3.378E-05	3.378E-05	3.365E-05	3.398E-05	3.363E-05	3.340E-05	3.387E-05	3.366E-05	3.344E-05	3.344E-05	0.000E+00
NO	R12_5028	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.748E-05	3.132E-05	3.160E-05	3.202E-05	3.163E-05	3.163E-05	3.163E-05	3.178E-05	3.163E-05	3.202E-05	3.146E-05	3.175E-05	3.175E-05	3.135E-05	3.122E-05	3.109E-05	0.000E+00
NO	R12_5028	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.689E-05	3.132E-05	3.104E-05	3.118E-05	3.133E-05	3.148E-05	3.148E-05	3.093E-05	3.061E-05	3.089E-05	3.059E-05	3.029E-05	3.090E-05	3.048E-05	3.034E-05	3.020E-05	0.000E+00
NO	R12_5028	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.534E-05	2.919E-05	2.889E-05	2.924E-05	2.924E-05	2.960E-05	2.942E-05	2.942E-05	2.942E-05	2.924E-05	2.906E-05	2.935E-05	2.935E-05	2.868E-05	2.852E-05	2.835E-05	0.000E+00
NO	R12_5028	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.470E-05	2.889E-05	2.942E-05	2.918E-05	2.937E-05	2.937E-05	2.937E-05	2.937E-05	2.918E-05	2.880E-05	2.942E-05	2.906E-05	2.889E-05	2.919E-05	2.919E-05	2.902E-05	0.000E+00
NO	R12_5028	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.518E-05	2.906E-05	2.978E-05	2.955E-05	2.974E-05	2.955E-05	2.937E-05	2.937E-05	2.918E-05	2.960E-05	2.906E-05	2.853E-05	2.853E-05	2.902E-05	2.885E-05	2.868E-05	0.000E+00
NO	R12_5028	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.807E-05	3.204E-05	3.187E-05	3.238E-05	3.209E-05	3.209E-05	3.209E-05	3.209E-05	3.174E-05	3.156E-05	3.204E-05	3.170E-05	3.154E-05	3.188E-05	3.172E-05	3.140E-05	0.000E+00
NO	R12_5028	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.958E-05	3.342E-05	3.370E-05	3.356E-05	3.371E-05	3.386E-05	3.386E-05	3.346E-05	3.371E-05	3.342E-05	3.312E-05	3.282E-05	3.252E-05	3.300E-05	3.286E-05	3.286E-05	0.000E+00
NO	R12_5028	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.248E-05	3.637E-05	3.627E-05	3.618E-05	3.641E-05	3.600E-05	3.600E-05	3.587E-05	3.550E-05	3.560E-05	3.526E-05	3.514E-05	3.502E-05	3.491E-05	3.529E-05	3.529E-05	0.000E+00
NO	R12_5028	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.361E-05	3.743E-05	3.724E-05	3.742E-05	3.715E-05	3.725E-05	3.734E-05	3.708E-05	3.688E-05	3.696E-05	3.667E-05	3.648E-05	3.679E-05	3.652E-05	3.684E-05	3.676E-05	0.000E+00
NO	R1b_5028	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.030E-06	1.026E-06	1.019E-06	1.021E-06	1.027E-06	1.027E-06	1.012E-06	1.009E-06	1.016E-06	1.011E-06	1.005E-06	1.003E-06	9.945E-07	9.945E-07	0.000E+00	0.000E+00
NO	R1b_5028	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.658E-07	9.620E-07	9.712E-07	9.622E-07	9.654E-07	9.654E-07	9.654E-07	9.622E-07	9.556E-07	9.620E-07	9.559E-07	9.498E-07	9.572E-07	9.543E-07	0.000E+00	0.000E+00
NO	R1b_5028	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.651E-07	9.556E-07	9.654E-07	9.687E-07	9.654E-07	9.531E-07	9.531E-07	9.496E-07	9.589E-07	9.491E-07	9.426E-07	9.559E-07	9.498E-07	9.436E-07	0.000E+00	0.000E+00
NO	R1b_5028	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.838E-07	8.916E-07	9.035E-07	8.926E-07	8.926E-07	8.926E-07	8.968E-07	8.926E-07	9.035E-07	8.877E-07	8.958E-07	8.958E-07	8.847E-07	8.810E-07	0.000E+00	0.000E+00
NO	R1b_5028	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.838E-07	8.758E-07	8.800E-07	8.842E-07	8.884E-07	8.884E-07	8.728E-07	8.639E-07	8.716E-07	8.632E-07	8.548E-07	8.719E-07	8.601E-07	8.561E-07	0.000E+00	0.000E+00
NO	R1b_5028	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.236E-07	8.151E-07	8.252E-07	8.252E-07	8.352E-07	8.302E-07	8.302E-07	8.302E-07	8.252E-07	8.202E-07	8.283E-07	8.283E-07	8.094E-07	8.047E-07	0.000E+00	0.000E+00
NO	R1b_5028	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.151E-07	8.302E-07	8.233E-07	8.287E-07	8.287E-07	8.287E-07	8.287E-07	8.233E-07	8.127E-07	8.302E-07	8.202E-07	8.151E-07	8.236E-07	8.236E-07	0.000E+00	0.000E+00
NO	R1b_5028	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.202E-07	8.403E-07	8.340E-07	8.393E-07	8.340E-07	8.287E-07	8.287E-07	8.233E-07	8.352E-07	8.202E-07	8.051E-07	8.051E-07	8.189E-07	8.141E-07	0.000E+00	0.000E+00
NO	R1b_5028	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.040E-07	8.994E-07	9.136E-07	9.056E-07	9.056E-07	9.056E-07	9.056E-07	8.956E-07	8.905E-07	9.041E-07	8.947E-07	8.899E-07	8.996E-07	8.951E-07	0.000E+00	0.000E+00
NO	R1b_5028	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.429E-07	9.508E-07	9.471E-07	9.513E-07	9.555E-07	9.555E-07	9.442E-07	9.513E-07	9.429E-07	9.346E-07	9.262E-07	9.178E-07	9.311E-07	9.272E-07	0.000E+00	0.000E+00
NO	R1b_5028	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.026E-06	1.023E-06	1.021E-06	1.028E-06	1.016E-06	1.016E-06	1.012E-06	1.002E-06	1.005E-06	9.949E-07	9.916E-07	9.883E-07	9.851E-07	9.958E-07	0.000E+00	0.000E+00
NO	R1b_5028	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.056E-06	1.051E-06	1.056E-06	1.048E-06	1.051E-06	1.054E-06	1.046E-06	1.041E-06	1.043E-06	1.035E-06	1.030E-06	1.038E-06	1.031E-06	1.040E-06	0.000E+00	0.000E+00
NO	R1b_5029	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.030E-06	1.023E-06	1.031E-06	1.021E-06	1.027E-06	1.027E-06	1.012E-06	1.009E-06	1.016E-06	1.011E-06	1.005E-06	1.003E-06	9.945E-07	1.008E-06	0.000E+00	0.000E+00
NO	R1b_5029	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.658E-07	9.620E-07	9.712E-07	9.622E-07	9.654E-07	9.687E-07	9.687E-07	9.654E-07	9.589E-07	9.620E-07	9.559E-07	9.498E-07	9.572E-07	9.543E-07	0.000E+00	0.000E+00
NO	R1b_5029	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.651E-07	9.589E-07	9.654E-07	9.687E-07	9.687E-07	9.566E-07	9.566E-07	9.531E-07	9.589E-07	9.524E-07	9.426E-07	9.559E-07	9.498E-07	9.436E-07	0.000E+00	0.000E+00
NO	R1b_5029	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.877E-07	8.956E-07	8.926E-07	8.968E-07	9.010E-07	9.010E-07	9.010E-07	8.968E-07	9.035E-07	8.916E-07	8.996E-07	8.958E-07	8.847E-07	8.810E-07	0.000E+00	0.000E+00
NO	R1b_5029	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.838E-07	8.758E-07	8.842E-07	8.884E-07	8.884E-07	8.884E-07	8.728E-07	8.684E-07	8.758E-07	8.632E-07	8.548E-07	8.719E-07	8.601E-07	8.561E-07	0.000E+00	0.000E+00
NO	R1b_5029	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.236E-07	8.202E-07	8.252E-07	8.352E-07	8.403E-07	8.403E-07	8.127E-07	8.352E-07	8.302E-07	8.202E-07	8.283E-07	8.283E-07	8.094E-07	8.047E-07	0.000E+00	0.000E+00
NO	R1b_5029	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.202E-07	8.352E-07	8.287E-07	8.340E-07	8.393E-07	8.340E-07	8.340E-07	8.287E-07	8.180E-07	8.302E-07	8.202E-07	8.151E-07	8.236E-07	8.189E-07	0.000E+00	0.000E+00
NO	R1b_5029	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.426E-07	8.403E-07	8.340E-07	8.447E-07	8.393E-07	8.340E-07	8.340E-07	8.233E-07	8.352E-07	8.202E-07	8.101E-07	8.051E-07	8.189E-07	8.141E-07	0.000E+00	0.000E+00
NO	R1b_5029	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.040E-07	9.041E-07	9.136E-07	9.056E-07	9.107E-07	9.056E-07	9.056E-07	9.006E-07	8.956E-07	9.041E-07	8.947E-07	8.899E-07	8.996E-07	8.907E-07	0.000E+00	0.000E+00
NO	R1b_5029	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.429E-07	9.508E-07	9.471E-07	9.555E-07	9.555E-07	9.555E-07	9.597E-07	9.555E-07	9.429E-07	9.346E-07	9.262E-07	9.178E-07	9.311E-07	9.272E-07	0.000E+00	0.000E+00
NO	R1b_5029	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.026E-06	1.023E-06	1.021E-06	1.028E-06	1.028E-06	1.016E-06	1.012E-06	1.002E-06	1.005E-06	9.949E-07	9.916E-07	9.883E-07	9.988E-07	9.958E-07	0.000E+00	0.000E+00
NO	R1b_5029	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.056E-06	1.061E-06	1.056E-06	1.058E-06	1.051E-06	1.054E-06	1.046E-06	1.041E-06	1.046E-06	1.035E-06	1.030E-06	1.038E-06	1.031E-06	1.040E-06	0.000E+00	0.000E+00
NO	R5_5027	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.323E-05	5.925E-05	5.939E-05	5.880E-05	5.895E-05	5.895E-05	5.895E-05	5.851E-05	5.851E-05	5.836E-05	5.820E-05	5.804E-05	5.789E-05	5.742E-05	5.742E-05	5.837E-05	0.000E+00
NO	R5_5027	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.012E-05	5.540E-05	5.573E-05	5.590E-05	5.607E-05	5.513E-05	5.513E-05	5.567E-05	5.567E-05	5.549E-05	5.513E-05	5.496E-05	5.496E-05	5.523E-05	5.507E-05	5.507E-05	0.000E+00
NO	R5_5027	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.968E-05	5.590E-05	5.513E-05	5.531E-05	5.531E-05	5.531E-05	5.549E-05	5.491E-05	5.491E-05	5.453E-05	5.434E-05	5.415E-05	5.396E-05	5.460E-05	5.442E-05	5.442E-05	0.000E+00
NO	R5_5027	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.580E-05	5.114E-05	5.136E-05	5.157E-05	5.179E-05	5.200E-05	5.179E-05	5.130E-05	5.107E-05	5.084E-05	5.061E-05	5.136E-05	5.039E-05	5.071E-05	5.071E-05	5.071E-05	0.000E+00
NO	R5_5027	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.483E-05	4.993E-05	5.016E-05	5.039E-05	5.061E-05	5.061E-05	5.061E-05	4.987E-05	4.962E-05	4.938E-05	4.913E-05	4.889E-05	4.993E-05	4.924E-05	4.924E-05	4.901E-05	0.000E+00
NO	R5_5027	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.116E-05	4.756E-05	4.671E-05	4.699E-05	4.699E-05	4.699E-05	4.699E-05	4.615E-05	4.615E-05	4.615E-05	4.615E-05	4.726E-05	4.726E-05	4.644E-05	4.616E-05	4.616E-05	0.000E+00
NO	R5_5027	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.110E-05	4.726E-05	4.615E-05	4.673E-05	4.673E-05	4.673E-05	4.673E-05	4.703E-05	4.703E-05	4.673E-05	4.673E-05	4.644E-05	4.644E-05	4.726E-05	4.726E-05	4.699E-05	0.000E+00
NO	R5_5027	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.083E-05	4.726E-05	4.781E-05	4.703E-05	4.732E-05	4.703E-05	4.703E-05	4.703E-05	4.703E-05	4.673E-05	4.615E-05	4.586E-05	4.615E-05	4.699E-05	4.671E-05	4.671E-05	0.000E+00
NO	R5_5027	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.569E-05	5.118E-05	5.170E-05	5.222E-05	5.222E-05	5.139E-05	5.139E-05	5.166E-05	5.139E-05	5.139E-05	5.111E-05	5.111E-05	5.111E-05	5.029E-05	5.118E-05	5.093E-05	0.000E+00
NO	R5_5027	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.827E-05	5.437E-05	5.382E-05	5.428E-05	5.451E-05	5.451E-05	5.451E-05	5.401E-05	5.376E-05	5.352E-05	5.328E-05	5.303E-05	5.279E-05	5.230E-05	5.336E-05	5.336E-05	0.000E+00
NO	R5_5027	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.341E-05	5.874E-05	5.907E-05	5.869E-05	5.887E-05	5.813E-05	5.813E-05	5.813E-05	5.775E-05	5.756E-05	5.718E-05	5.718E-05	5.699E-05	5.680E-05	5.680E-05	5.763E-05	0.000E+00
NO	R5_5027	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.521E-05	6.076E-05	6.076E-05	6.089E-05	6.042E-05	6.042E-05	6.056E-05	6.039E-05	6.023E-05	5.992E-05	5.961E-05	5.945E-05	5.929E-05	5.954E-05	5.939E-05	5.939E-05	0.000E+00
NO	R6_5028	1	3.572E-05	3.572E-05	3.617E-05	3.617E-05	3.617E-05	3.617E-05	3.617E-05	7.610E-05	6.840E-05	6.810E-05	6.765E-05	6.783E-05	6.818E-05	6.818E-05	6.719E-05	6.700E-05	6.747E-05	6.711E-05	6.675E-05	6.657E-05	6.604E-05	6.604E-05	6.710E-05	3.581E-05
NO	R6_5028	2	3.382E-05	3.382E-05	3.372E-05	3.372E-05	3.419E-05	3.419E-05	3.410E-05	7.138E-05	6.413E-05	6.388E-05	6.449E-05	6.389E-05	6.411E-05	6.411E-05	6.411E-05	6.389E-05	6.346E-05	6.388E-05	6.347E-05	6.307E-05	6.356E-05	6.337E-05	6.318E-05	3.372E-05
NO	R6_5028	3	3.333E-05	3.382E-05	3.372E-05	3.382E-05	3.382E-05	3.382E-05	3.392E-05	7.128E-05	6.409E-05	6.346E-05	6.411E-05	6.433E-05	6.411E-05	6.329E-05	6.329E-05	6.306E-05	6.367E-05	6.302E-05	6.259E-05	6.347E-05	6.307E-05	6.266E-05	6.266E-05	3.344E-05
NO	R6_5028	4	3.168E-05	3.168E-05	3.168E-05	3.155E-05	3.155E-05	3.143E-05	3.168E-05	6.700E-05	5.868E-05	5.921E-05	5.999E-05	5.927E-05	5.927E-05	5.927E-05	5.955E-05	5.927E-05	5.999E-05	5.895E-05	5.949E-05	5.949E-05	5.875E-05	5.850E-05	5.826E-05	3.168E-05
NO	R6_5028	5	3.096E-05	3.083E-05	3.083E-05	3.083E-05	3.083E-05	3.083E-05	3.109E-05	6.591E-05	5.868E-05	5.816E-05	5.843E-05	5.871E-05	5.899E-05	5.899E-05	5.796E-05	5.736E-05	5.788E-05	5.732E-05	5.676E-05	5.790E-05	5.711E-05	5.685E-05	5.659E-05	3.020E-05
NO	R6_5028	6	2.888E-05	2.888E-05	2.856E-05	2.856E-05	2.856E-05	2.856E-05	2.903E-05	6.300E-05	5.469E-05	5.413E-05	5.479E-05	5.479E-05	5.546E-05	5.513E-05	5.513E-05	5.513E-05	5.479E-05	5.446E-05	5.500E-05	5.500E-05	5.375E-05	5.343E-05	5.312E-05	2.835E-05
NO	R6_5028	7	2.885E-05	2.885E-05	2.885E-05	2.885E-05	2.868E-05	2.868E-05	2.885E-05	6.180E-05	5.413E-05	5.513E-05	5.467E-05	5.503E-05	5.503E-05	5.503E-05	5.503E-05	5.467E-05	5.396E-05	5.513E-05	5.446E-05	5.413E-05	5.469E-05	5.469E-05	5.438E-05	2.902E-05
NO	R6_5028	8	2.852E-05	2.919E-05	2.903E-05	2.903E-05	2.903E-05	2.903E-05	2.951E-05	6.270E-05	5.446E-05	5.580E-05	5.538E-05	5.573E-05	5.538E-05	5.503E-05	5.503E-05	5.467E-05	5.546E-05	5.446E-05	5.346E-05	5.346E-05	5.438E-05	5.406E-05	5.375E-05	2.868E-05

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	Parameter
g/m2/s	Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO	R6_5028	9	3.093E-05	3.148E-05	3.133E-05	3.148E-05	3.148E-05	3.148E-05	3.163E-05	6.811E-05	6.003E-05	5.972E-05	6.067E-05	6.014E-05	6.014E-05	6.014E-05	6.014E-05	5.947E-05	5.914E-05	6.004E-05	5.941E-05	5.909E-05	5.973E-05	5.944E-05	5.885E-05	3.140E-05
NO	R6_5028	10	3.300E-05	3.300E-05	3.345E-05	3.332E-05	3.319E-05	3.319E-05	3.319E-05	7.094E-05	6.261E-05	6.314E-05	6.289E-05	6.317E-05	6.345E-05	6.345E-05	6.270E-05	6.317E-05	6.261E-05	6.206E-05	6.150E-05	6.094E-05	6.183E-05	6.157E-05	6.157E-05	3.286E-05
NO	R6_5028	11	3.518E-05	3.576E-05	3.576E-05	3.576E-05	3.620E-05	3.620E-05	3.629E-05	7.637E-05	6.814E-05	6.795E-05	6.780E-05	6.823E-05	6.745E-05	6.745E-05	6.722E-05	6.653E-05	6.671E-05	6.606E-05	6.585E-05	6.563E-05	6.541E-05	6.612E-05	6.612E-05	3.518E-05
NO	R6_5028	12	3.676E-05	3.676E-05	3.714E-05	3.722E-05	3.730E-05	3.738E-05	3.738E-05	7.848E-05	7.013E-05	6.978E-05	7.012E-05	6.962E-05	6.979E-05	6.997E-05	6.948E-05	6.910E-05	6.926E-05	6.872E-05	6.836E-05	6.894E-05	6.844E-05	6.903E-05	6.887E-05	3.676E-05
NO	R7_5028	1	7.144E-05	7.144E-05	7.234E-05	7.234E-05	7.234E-05	7.234E-05	7.234E-05	7.767E-05	7.552E-05	7.519E-05	7.468E-05	7.488E-05	7.528E-05	7.528E-05	7.418E-05	7.397E-05	7.449E-05	7.409E-05	7.370E-05	7.350E-05	7.291E-05	7.291E-05	7.307E-05	7.162E-05
NO	R7_5028	2	6.764E-05	6.764E-05	6.743E-05	6.743E-05	6.838E-05	6.838E-05	6.819E-05	7.253E-05	7.080E-05	7.053E-05	7.120E-05	7.054E-05	7.078E-05	7.078E-05	7.078E-05	7.054E-05	7.006E-05	7.053E-05	7.008E-05	6.963E-05	7.017E-05	6.996E-05	6.880E-05	6.743E-05
NO	R7_5028	3	6.666E-05	6.764E-05	6.743E-05	6.764E-05	6.764E-05	6.764E-05	6.784E-05	7.242E-05	7.075E-05	7.006E-05	7.078E-05	7.102E-05	7.078E-05	6.987E-05	6.987E-05	6.962E-05	7.030E-05	6.958E-05	6.910E-05	7.008E-05	6.963E-05	6.918E-05	6.823E-05	6.688E-05
NO	R7_5028	4	6.336E-05	6.336E-05	6.336E-05	6.311E-05	6.311E-05	6.286E-05	6.336E-05	6.777E-05	6.479E-05	6.537E-05	6.623E-05	6.543E-05	6.543E-05	6.543E-05	6.574E-05	6.543E-05	6.623E-05	6.508E-05	6.567E-05	6.567E-05	6.486E-05	6.459E-05	6.344E-05	6.336E-05
NO	R7_5028	5	6.192E-05	6.165E-05	6.165E-05	6.165E-05	6.165E-05	6.165E-05	6.218E-05	6.657E-05	6.479E-05	6.420E-05	6.451E-05	6.482E-05	6.513E-05	6.513E-05	6.399E-05	6.333E-05	6.390E-05	6.328E-05	6.267E-05	6.392E-05	6.305E-05	6.276E-05	6.162E-05	6.040E-05
NO	R7_5028	6	5.775E-05	5.775E-05	5.712E-05	5.712E-05	5.712E-05	5.712E-05	5.807E-05	6.341E-05	6.038E-05	5.976E-05	6.049E-05	6.049E-05	6.123E-05	6.086E-05	6.086E-05	6.086E-05	6.049E-05	6.012E-05	6.073E-05	6.073E-05	5.934E-05	5.899E-05	5.784E-05	5.669E-05
NO	R7_5028	7	5.770E-05	5.770E-05	5.770E-05	5.770E-05	5.737E-05	5.737E-05	5.770E-05	6.210E-05	5.976E-05	6.086E-05	6.036E-05	6.075E-05	6.075E-05	6.075E-05	6.075E-05	6.036E-05	5.958E-05	6.086E-05	6.012E-05	5.976E-05	6.038E-05	6.038E-05	5.921E-05	5.804E-05
NO	R7_5028	8	5.703E-05	5.838E-05	5.807E-05	5.807E-05	5.807E-05	5.807E-05	5.902E-05	6.308E-05	6.012E-05	6.160E-05	6.114E-05	6.153E-05	6.114E-05	6.075E-05	6.075E-05	6.036E-05	6.123E-05	6.012E-05	5.902E-05	5.902E-05	6.003E-05	5.968E-05	5.853E-05	5.737E-05
NO	R7_5028	9	6.186E-05	6.296E-05	6.267E-05	6.296E-05	6.296E-05	6.296E-05	6.326E-05	6.898E-05	6.627E-05	6.593E-05	6.698E-05	6.639E-05	6.639E-05	6.639E-05	6.639E-05	6.565E-05	6.529E-05	6.628E-05	6.559E-05	6.524E-05	6.595E-05	6.562E-05	6.408E-05	6.281E-05
NO	R7_5028	10	6.599E-05	6.599E-05	6.691E-05	6.665E-05	6.638E-05	6.638E-05	6.638E-05	7.206E-05	6.913E-05	6.971E-05	6.943E-05	6.974E-05	7.005E-05	7.005E-05	6.922E-05	6.974E-05	6.913E-05	6.851E-05	6.790E-05	6.728E-05	6.826E-05	6.797E-05	6.704E-05	6.571E-05
NO	R7_5028	11	7.036E-05	7.151E-05	7.151E-05	7.151E-05	7.239E-05	7.239E-05	7.258E-05	7.797E-05	7.523E-05	7.502E-05	7.485E-05	7.533E-05	7.447E-05	7.447E-05	7.421E-05	7.345E-05	7.365E-05	7.293E-05	7.269E-05	7.245E-05	7.221E-05	7.300E-05	7.200E-05	7.036E-05
NO	R7_5028	12	7.351E-05	7.351E-05	7.428E-05	7.444E-05	7.460E-05	7.475E-05	7.475E-05	8.027E-05	7.742E-05	7.704E-05	7.741E-05	7.686E-05	7.705E-05	7.725E-05	7.671E-05	7.628E-05	7.646E-05	7.587E-05	7.547E-05	7.611E-05	7.556E-05	7.621E-05	7.500E-05	7.351E-05
NO	R8_5028	1	7.144E-05	7.144E-05	7.234E-05	7.234E-05	7.234E-05	7.234E-05	7.234E-05	7.820E-05	7.552E-05	7.519E-05	7.468E-05	7.488E-05	7.528E-05	7.528E-05	7.418E-05	7.397E-05	7.449E-05	7.409E-05	7.370E-05	7.350E-05	7.291E-05	7.291E-05	7.307E-05	7.162E-05
NO	R8_5028	2	6.764E-05	6.764E-05	6.743E-05	6.743E-05	6.838E-05	6.838E-05	6.819E-05	7.306E-05	7.080E-05	7.053E-05	7.120E-05	7.054E-05	7.078E-05	7.078E-05	7.078E-05	7.054E-05	7.006E-05	7.053E-05	7.008E-05	6.963E-05	7.017E-05	6.996E-05	6.880E-05	6.743E-05
NO	R8_5028	3	6.666E-05	6.764E-05	6.743E-05	6.764E-05	6.764E-05	6.764E-05	6.784E-05	7.295E-05	7.075E-05	7.006E-05	7.078E-05	7.102E-05	7.078E-05	6.987E-05	6.987E-05	6.962E-05	7.030E-05	6.958E-05	6.910E-05	7.008E-05	6.963E-05	6.918E-05	6.823E-05	6.688E-05
NO	R8_5028	4	6.336E-05	6.336E-05	6.336E-05	6.311E-05	6.311E-05	6.286E-05	6.336E-05	6.829E-05	6.479E-05	6.537E-05	6.623E-05	6.543E-05	6.543E-05	6.543E-05	6.574E-05	6.543E-05	6.623E-05	6.508E-05	6.567E-05	6.567E-05	6.486E-05	6.459E-05	6.344E-05	6.336E-05
NO	R8_5028	5	6.192E-05	6.165E-05	6.165E-05	6.165E-05	6.165E-05	6.165E-05	6.218E-05	6.710E-05	6.479E-05	6.420E-05	6.451E-05	6.482E-05	6.513E-05	6.513E-05	6.399E-05	6.333E-05	6.390E-05	6.328E-05	6.267E-05	6.392E-05	6.305E-05	6.276E-05	6.162E-05	6.040E-05
NO	R8_5028	6	5.775E-05	5.775E-05	5.712E-05	5.712E-05	5.712E-05	5.712E-05	5.807E-05	6.394E-05	6.038E-05	5.976E-05	6.049E-05	6.049E-05	6.123E-05	6.086E-05	6.086E-05	6.086E-05	6.049E-05	6.012E-05	6.073E-05	6.073E-05	5.934E-05	5.899E-05	5.784E-05	5.669E-05
NO	R8_5028	7	5.770E-05	5.770E-05	5.770E-05	5.770E-05	5.737E-05	5.737E-05	5.770E-05	6.263E-05	5.976E-05	6.086E-05	6.036E-05	6.075E-05	6.075E-05	6.075E-05	6.075E-05	6.036E-05	5.958E-05	6.086E-05	6.012E-05	5.976E-05	6.038E-05	6.038E-05	5.921E-05	5.804E-05
NO	R8_5028	8	5.703E-05	5.838E-05	5.807E-05	5.807E-05	5.807E-05	5.807E-05	5.902E-05	6.361E-05	6.012E-05	6.160E-05	6.114E-05	6.153E-05	6.114E-05	6.075E-05	6.075E-05	6.036E-05	6.123E-05	6.012E-05	5.902E-05	5.902E-05	6.003E-05	5.968E-05	5.853E-05	5.737E-05
NO	R8_5028	9	6.186E-05	6.296E-05	6.267E-05	6.296E-05	6.296E-05	6.296E-05	6.326E-05	6.951E-05	6.627E-05	6.593E-05	6.698E-05	6.639E-05	6.639E-05	6.639E-05	6.639E-05	6.565E-05	6.529E-05	6.628E-05	6.559E-05	6.524E-05	6.595E-05	6.562E-05	6.408E-05	6.281E-05
NO	R8_5028	10	6.599E-05	6.599E-05	6.691E-05	6.665E-05	6.638E-05	6.638E-05	6.638E-05	7.259E-05	6.913E-05	6.971E-05	6.943E-05	6.974E-05	7.005E-05	7.005E-05	6.922E-05	6.974E-05	6.913E-05	6.851E-05	6.790E-05	6.728E-05	6.826E-05	6.797E-05	6.704E-05	6.571E-05
NO	R8_5028	11	7.036E-05	7.151E-05	7.151E-05	7.151E-05	7.239E-05	7.239E-05	7.258E-05	7.850E-05	7.523E-05	7.502E-05	7.485E-05	7.533E-05	7.447E-05	7.447E-05	7.421E-05	7.345E-05	7.365E-05	7.293E-05	7.269E-05	7.245E-05	7.221E-05	7.300E-05	7.200E-05	7.036E-05
NO	R8_5028	12	7.351E-05	7.351E-05	7.428E-05	7.444E-05	7.460E-05	7.475E-05	7.475E-05	8.080E-05	7.742E-05	7.704E-05	7.741E-05	7.686E-05	7.705E-05	7.725E-05	7.671E-05	7.628E-05	7.646E-05	7.587E-05	7.547E-05	7.611E-05	7.556E-05	7.621E-05	7.500E-05	7.351E-05
NO	R9a_5028	1	9.321E-05	9.321E-05	9.438E-05	9.438E-05	9.438E-05	9.438E-05	9.438E-05	1.273E-04	1.267E-04	1.262E-04	1.253E-04	1.256E-04	1.263E-04	1.263E-04	1.245E-04	1.241E-04	1.250E-04	1.243E-04	1.237E-04	1.233E-04	1.223E-04	1.223E-04	1.233E-04	9.344E-05
NO	R9a_5028	2	8.825E-05	8.825E-05	8.799E-05	8.799E-05	8.922E-05	8.922E-05	8.898E-05	1.187E-04	1.188E-04	1.183E-04	1.195E-04	1.184E-04	1.188E-04	1.188E-04	1.188E-04	1.184E-04	1.176E-04	1.183E-04	1.176E-04	1.168E-04	1.177E-04	1.174E-04	1.161E-04	8.799E-05
NO	R9a_5028	3	8.698E-05	8.825E-05	8.799E-05	8.825E-05	8.825E-05	8.825E-05	8.852E-05	1.185E-04	1.187E-04	1.176E-04	1.188E-04	1.192E-04	1.188E-04	1.172E-04	1.172E-04	1.168E-04	1.180E-04	1.167E-04	1.159E-04	1.176E-04	1.168E-04	1.161E-04	1.151E-04	8.726E-05
NO	R9a_5028	4	8.266E-05	8.266E-05	8.266E-05	8.234E-05	8.234E-05	8.202E-05	8.266E-05	1.106E-04	1.087E-04	1.097E-04	1.111E-04	1.098E-04	1.098E-04	1.098E-04	1.103E-04	1.098E-04	1.111E-04	1.092E-04	1.102E-04	1.102E-04	1.088E-04	1.084E-04	1.070E-04	8.266E-05
NO	R9a_5028	5	8.079E-05	8.044E-05	8.044E-05	8.044E-05	8.044E-05	8.044E-05	8.113E-05	1.086E-04	1.087E-04	1.077E-04	1.082E-04	1.088E-04	1.093E-04	1.093E-04	1.074E-04	1.063E-04	1.072E-04	1.062E-04	1.051E-04	1.073E-04	1.058E-04	1.053E-04	1.040E-04	7.881E-05
NO	R9a_5028	6	7.535E-05	7.535E-05	7.453E-05	7.453E-05	7.453E-05	7.453E-05	7.576E-05	1.033E-04	1.013E-04	1.003E-04	1.015E-04	1.015E-04	1.027E-04	1.021E-04	1.021E-04	1.021E-04	1.015E-04	1.009E-04	1.019E-04	1.019E-04	9.956E-05	9.898E-05	9.759E-05	7.397E-05
NO	R9a_5028	7	7.529E-05	7.529E-05	7.529E-05	7.529E-05	7.485E-05	7.485E-05	7.529E-05	1.011E-04	1.003E-04	1.021E-04	1.013E-04	1.019E-04	1.019E-04	1.019E-04	1.019E-04	1.013E-04	9.996E-05	1.021E-04	1.009E-04	1.003E-04	1.013E-04	1.013E-04	9.991E-05	7.572E-05
NO	R9a_5028	8	7.441E-05	7.618E-05	7.576E-05	7.576E-05	7.576E-05	7.576E-05	7.700E-05	1.027E-04	1.009E-04	1.034E-04	1.026E-04	1.032E-04	1.026E-04	1.019E-04	1.019E-04	1.013E-04	1.027E-04	1.009E-04	9.903E-05	9.903E-05	1.007E-04	1.001E-04	9.875E-05	7.485E-05
NO	R9a_5028	9	8.071E-05	8.215E-05	8.177E-05	8.215E-05	8.215E-05	8.215E-05	8.254E-05	1.127E-04	1.112E-04	1.106E-04	1.124E-04	1.114E-04	1.114E-04	1.114E-04	1.114E-04	1.102E-04	1.095E-04	1.112E-04	1.100E-04	1.095E-04	1.107E-04	1.101E-04	1.081E-04	8.195E-05
NO	R9a_5028	10	8.610E-05	8.610E-05	8.730E-05	8.696E-05	8.662E-05	8.662E-05	8.662E-05	1.179E-04	1.160E-04	1.170E-04	1.165E-04	1.170E-04	1.175E-04	1.175E-04	1.161E-04	1.170E-04	1.160E-04	1.150E-04	1.139E-04	1.129E-04	1.145E-04	1.140E-04	1.131E-04	8.574E-05
NO	R9a_5028	11	9.180E-05	9.330E-05	9.330E-05	9.330E-05	9.446E-05	9.446E-05	9.471E-05	1.278E-04	1.262E-04	1.259E-04	1.256E-04	1.264E-04	1.249E-04	1.249E-04	1.245E-04	1.232E-04	1.236E-04	1.224E-04	1.220E-04	1.216E-04	1.212E-04	1.225E-04	1.215E-04	9.180E-05
NO	R9a_5028	12	9.591E-05	9.591E-05	9.692E-05	9.713E-05	9.733E-05	9.753E-05	9.753E-05	1.317E-04	1.299E-04	1.293E-04	1.299E-04	1.290E-04	1.293E-04	1.296E-04	1.287E-04	1.280E-04	1.283E-04	1.273E-04	1.266E-04	1.277E-04	1.268E-04	1.279E-04	1.265E-04	9.591E-05
NO	R9b_5027	1	5.720E-05	5.735E-05	5.720E-05	5.795E-05	5.808E-05	5.808E-05	5.795E-05	1.246E-04	1.190E-04	1.193E-04	1.181E-04	1.184E-04	1.184E-04	1.184E-04	1.175E-04	1.175E-04	1.172E-04	1.169E-04	1.166E-04	1.163E-04	1.153E-04	1.148E-04	1.157E-04	5.735E-05
NO	R9b_5027	2	5.427E-05	5.427E-05	5.410E-05	5.410E-05	5.410E-05	5.503E-05	5.488E-05	1.184E-04	1.113E-04	1.120E-04	1.123E-04	1.126E-04	1.107E-04	1.107E-04	1.118E-04	1.118E-04	1.115E-04	1.107E-04	1.104E-04	1.104E-04	1.109E-04	1.101E-04	1.092E-04	5.410E-05
NO	R9b_5027	3	5.347E-05	5.330E-05	5.410E-05	5.427E-05	5.427E-05	5.427E-05	5.427E-05	1.175E-04	1.123E-04	1.107E-04	1.111E-04	1.111E-04	1.111E-04	1.115E-04	1.103E-04	1.103E-04	1.095E-04	1.091E-04	1.088E-04	1.084E-04	1.097E-04	1.088E-04	1.079E-04	5.347E-05
NO	R9b_5027	4	5.079E-05	5.079E-05	5.059E-05	5.059E-05	5.059E-05	5.059E-05	5.059E-05	1.099E-04	1.027E-04	1.032E-04	1.036E-04	1.040E-04	1.045E-04	1.040E-04	1.031E-04	1.026E-04	1.021E-04	1.017E-04	1.032E-04	1.012E-04	1.019E-04	1.014E-04	1.005E-04	4.962E-05
NO	R9b_5027	5	4.940E-05	4.940E-05	4.940E-05	4.940E-05	4.940E-05	4.940E-05	4.962E-05	1.079E-04	1.003E-04	1.008E-04	1.012E-04	1.017E-04	1.017E-04	1.017E-04	1.002E-04	9.968E-05	9.919E-05	9.870E-05	9.821E-05	1.003E-04	9.891E-05	9.847E-05	9.717E-05	4.816E-05
NO	R9b_5027	6	4.481E-05	4.481E-05	4.571E-05	4.571E-05	4.571E-05	4.571E-05	4.597E-05	1.006E-04	9.553E-05	9.383E-05	9.438E-05	9.438E-05	9.438E-05	9.438E-05	9.270E-05	9.270E-05	9.270E-05	9.270E-05	9.493E-05	9.493E-05	9.328E-05	9.231E-05	9.152E-05	4.508E-05
NO	R9b_5027	7	4.617E-05	4.617E-05	4.617E-05	4.617E-05	4.590E-05	4.590E-05	4.590E-05	1.005E-04	9.493E-05	9.270E-05	9.388E-05	9.388E-05	9.388E-05	9.388E-05	9.446E-05	9.446E-05	9.388E-05	9.388E-05	9.329E-05	9.329E-05	9.493E-05	9.451E-05	9.315E-05	4.617E-05
NO	R9b_5027	8	4.563E-05	4.536E-05	4.648E-05	4.648E-05	4.648E-05	4.648E-05	4.673E-05	9.999E-05	9.493E-05	9.604E-05	9.446E-05	9.505E-05	9.446E-05	9.446E-05	9.446E-05	9.446E-05	9.388E-05	9.270E-05	9.212E-05	9.270E-05	9.438E-05	9.341E-05	9.261E-05	4.563E-05
NO	R9b_5027	9	4.953E-05	4.927E-05	5.019E-05	5.019E-05	5.019E-05	5.019E-05	5.019E-05	1.096E-04	1.028E-04	1.039E-04	1.049E-04	1.049E-04	1.032E-04	1.032E-04	1.038E-04	1.032E-04	1.032E-04	1.027E-04	1.027E-04	1.027E-04	1.010E-04	1.024E-04	1.010E-04	5.004E-05
NO	R9b_5027	10	5.266E-05	5.266E-05	5.243E-05	5.321E-05	5.321E-05	5.300E-05	5.300E-05	1.148E-04	1.092E-04	1.081E-04	1.090E-04	1.095E-04	1.095E-04	1.095E-04	1.085E-04	1.080E-04	1.075E-04	1.070E-04	1.065E-04	1.060E-04	1.051E-04	1.067E-04	1.058E-04	5.243E-05
NO	R9b_5027	11	5.627E-05	5.662E-05	5.722E-05	5.738E-05	5.722E-05	5.795E-05	5.811E-05	1.249E-04	1.180E-04	1.187E-04	1.179E-04	1.183E-04	1.168E-04	1.168E-04	1.168E-04	1.160E-04	1.156E-04	1.149E-04	1.149E-04	1.145E-04	1.141E-04	1.136E-04	1.142E-04	5.645E-05
NO	R9b_5027	12	5.889E-05	5.889E-05	5.889E-05	5.965E-05	5.991E-05	5.991E-05	5.991E-05	1.285E-04	1.220E-04	1.220E-04	1.223E-04	1.214E-04	1.214E-04	1.217E-04	1.213E-04	1.210E-04	1.204E-04	1.197E-04	1.194E-04	1.191E-04	1.196E-04	1.188E-04	1.177E-04	5.902E-05
NO	R9b_5028	1	5.749E-05	5.749E-05	5.821E-05	5.821E-05	5.821E-05	5.821E-05	5.821E-05	1.245E-04	1.201E-04	1.196E-04	1.188E-04	1.191E-04	1.197E-04	1.197E-04	1.180E-04	1.177E-04	1.185E-04	1.178E-04	1.172E-04	1.169E-04	1.160E-04	1.154E-04	1.163E-04	5.764E-05
NO	R9b_5028	2	5.443E-05	5.443E-05	5.427E-05	5.427E-05	5.503E-05	5.503E-05	5.488E-05	1.163E-04	1.126E-04	1.122E-04	1.133E-04	1.122E-04	1.126E-04	1.126E-04	1.126E-04	1.122E-04	1.114E-04	1.122E-04	1.115E-04	1.107E-04	1.116E-04	1.108E-04	1.095E-04	5.427E-05
NO	R9b_5028	3	5.365E-05	5.443E-05	5.427E-05	5.443E-05	5.443E-05	5.443E-05	5.460E-05	1.161E-04	1.125E-04	1.114E-04	1.126E-04	1.130E-04	1.126E-04	1.111E-04	1.111E-04	1.107E-04	1.118E-04	1.107E-04	1.099E-04	1.115E-04	1.107E-04	1.095E-04	1.086E-04	5.382E-05
NO	R9b_5028	4	5.099E-05	5.099E-05	5.099E-05	5.079E-05	5.079E-05	5.059E-05	5.099E-05	1.087E-04	1.031E-04	1.040E-04	1.054E-04	1.041E-04	1.041E-04	1.041E-04	1.046E-04	1.041E-04	1.054E-04	1.035E-04	1.045E-04	1.045E-04	1.032E-04	1.023E-04	1.010E-04	5.099E-05
NO	R9b_5028	5	4.983E-05	4.962E-05	4.962E-05	4.962E-05	4.962E-05	4.962E-05	5.004E-05	1.068E-04	1.031E-04	1.021E-04	1.026E-04	1.031E-04	1.036E-04	1.036E-04	1.018E-04	1.007E-04	1.016E-04	1.007E-04	9.968E-05	1.017E-04	1.003E-04	9.939E-05	9.808E-05	4.861E-05
NO	R9b_5028	6	4.648E-05	4.648E-05	4.597E-05	4.597E-05	4.597E-05	4.597E-05	4.673E-05	1.018E-04	9.604E-05	9.505E-05	9.622E-05	9.622E-05	9.739E-05	9.681E-05	9.681E-05	9.681E-05	9.622E-05	9.564E-05	9.659E-05	9.659E-05	9.438E-05	9.341E-05	9.206E-05	4.563E-05
NO	R9b_5028	7	4.644E-05	4.644E-05	4.644E-05	4.644E-05	4.617E-05	4.617E-05	4.644E-05	9.969E-05	9.505E-05	9.681E-05	9.600E-05	9.663E-05	9.663E-05	9.663E-05	9.663E-05	9.600E-05	9.476E-05	9.681E-05	9.564E-05	9.505E-05	9.604E-05	9.561E-05	9.424E-05	4.671E-05
NO	R9b_5028	8	4.590E-05	4.698E-05	4.673E-05	4.673E-05	4.673E-05	4.673E-05	4.749E-05	1.012E-04	9.564E-05	9.798E-05	9.725E-05	9.787E-05	9.725E-05	9.663E-05	9.663E-05	9.600E-05	9.739E-05	9.564E-05	9.388E-05	9.388E-05	9.549E-05	9.451E-05	9.315E-05	4.617E-05
NO	R9b_5028	9	4.978E-05	5.067E-05	5.043E-05	5.067E-05	5.067E-05	5.067E-05	5.091E-05	1.106E-04	1.054E-04	1.049E-04	1.065E-04	1.056E-04	1.056E-04	1.056E-04	1.056E-04	1.044E-04	1.038E-04	1.054E-04	1.043E-04	1.038E-04	1.049E-04	1.039E-04	1.020E-04	5.055E-05
NO	R9b_5028	10	5.311E-05	5.311E-05	5.385E-05	5.363E-05	5.342E-05	5.342E-05	5.342E-05	1.155E-04	1.100E-04	1.109E-04	1.104E-04	1.109E-04	1.114E-04	1.114E-04	1.101E-04	1.109E-04	1.100E-04	1.090E-04	1.080E-04	1.070E-04	1.086E-04	1.076E-04	1.067E-04	5.288E-05
NO	R9b_5028	11	5.662E-05	5.755E-05	5.755E-05	5.755E-05	5.826E-05	5.826E-05	5.841E-05	1.249E-04	1.197E-04	1.193E-04	1.191E-04	1.198E-04	1.184E-04	1.184E-04	1.180E-04	1.168E-04	1.172E-04	1.160E-04	1.156E-04	1.152E-04	1.149E-04	1.156E-04	1.146E-04	5.662E-05
NO	R9b_5028	12	5.916E-05	5.916E-05	5.978E-05	5.991E-05	6.003E-05	6.016E-05	6.016E-05	1.286E-04	1.231E-04	1.225E-04	1.231E-04	1.222E-04	1.226E-04	1.229E-04	1.220E-04	1.213E-04	1.216E-04	1.207E-04	1.200E-04	1.211E-04	1.202E-04	1.207E-04	1.194E-04	5.916E-05
NO	R9c_5027	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.551E-06	1.554E-06	1.539E-06	1.543E-06	1.543E-06	1.543E-06	1.531E-06	1.531E-06	1.527E-06	1.523E-06	1.519E-06	1.515E-06	1.503E-06	9.891E-07	0.000E+00	0.000E+00
NO	R9c_5027	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.450E-06	1.459E-06	1.463E-06	1.467E-06	1.443E-06	1.443E-06	1.457E-06	1.457E-06	1.452E-06	1.443E-06	1.438E-06	1.438E-06	1.445E-06	9.486E-07	0.000E+00	0.000E+00
NO	R9c_5027	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.463E-06	1.443E-06	1.448E-06	1.448E-06	1.448E-06	1.452E-06	1.437E-06	1.437E-06	1.427E-06	1.422E-06	1.417E-06	1.412E-06	1.429E-06	9.375E-07	0.000E+00	0.000E+00
NO	R9c_5027	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.338E-06	1.344E-06	1.350E-06	1.355E-06	1.361E-06	1.355E-06	1.343E-06	1.337E-06	1.331E-06	1.325E-06	1.344E-06	1.319E-06	1.327E-06	8.736E-07	0.000E+00	0.000E+00
NO	R9c_5027	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.307E-06	1.313E-06	1.319E-06	1.325E-06	1.325E-06	1.325E-06	1.305E-06	1.299E-06	1.292E-06	1.286E-06	1.280E-06	1.307E-06	1.289E-06	8.482E-07	0.000E+00	0.000E+00
NO	R9c_5027	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.245E-06	1.222E-06	1.230E-06	1.230E-06	1.230E-06	1.230E-06	1.208E-06	1.208E-06	1.208E-06	1.208E-06	1.237E-06	1.237E-06	1.215E-06	7.952E-07	0.000E+00	0.000E+00
NO	R9c_5027	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.237E-06	1.208E-06	1.223E-06	1.223E-06	1.223E-06	1.223E-06	1.231E-06	1.231E-06	1.223E-06	1.223E-06	1.215E-06	1.215E-06	1.237E-06	8.141E-07	0.000E+00	0.000E+00
NO	R9c_5027	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.237E-06	1.251E-06	1.231E-06	1.238E-06	1.231E-06	1.231E-06	1.231E-06	1.231E-06	1.223E-06	1.208E-06	1.200E-06	1.208E-06	1.230E-06	8.047E-07	0.000E+00	0.000E+00
NO	R9c_5027	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.340E-06	1.353E-06	1.367E-06	1.367E-06	1.345E-06	1.345E-06	1.352E-06	1.345E-06	1.345E-06	1.338E-06	1.338E-06	1.338E-06	1.316E-06	8.817E-07	0.000E+00	0.000E+00
NO	R9c_5027	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.423E-06	1.409E-06	1.421E-06	1.427E-06	1.427E-06	1.427E-06	1.413E-06	1.407E-06	1.401E-06	1.394E-06	1.388E-06	1.382E-06	1.369E-06	9.193E-07	0.000E+00	0.000E+00
NO	R9c_5027	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.537E-06	1.546E-06	1.536E-06	1.541E-06	1.521E-06	1.521E-06	1.521E-06	1.511E-06	1.506E-06	1.497E-06	1.497E-06	1.492E-06	1.487E-06	9.785E-07	0.000E+00	0.000E+00
NO	R9c_5027	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.590E-06	1.590E-06	1.594E-06	1.581E-06	1.581E-06	1.585E-06	1.580E-06	1.576E-06	1.568E-06	1.560E-06	1.556E-06	1.552E-06	1.558E-06	1.023E-06	0.000E+00	0.000E+00
NO2	R11_5028	1	1.818E-06	1.818E-06	1.841E-06	1.841E-06	1.841E-06	1.841E-06	1.841E-06	4.686E-06	4.618E-06	4.598E-06	4.567E-06	4.579E-06	4.603E-06	4.603E-06	4.536E-06	4.524E-06	4.555E-06	4.531E-06	4.507E-06	4.495E-06	4.458E-06	4.432E-06	4.504E-06	1.822E-06
NO2	R11_5028	2	1.721E-06	1.721E-06	1.716E-06	1.716E-06	1.740E-06	1.740E-06	1.735E-06	4.369E-06	4.330E-06	4.313E-06	4.354E-06	4.314E-06	4.328E-06	4.328E-06	4.328E-06	4.314E-06	4.284E-06	4.313E-06	4.285E-06	4.258E-06	4.292E-06	4.253E-06	4.241E-06	1.716E-06
NO2	R11_5028	3	1.696E-06	1.721E-06	1.716E-06	1.721E-06	1.721E-06	1.721E-06	1.726E-06	4.362E-06	4.327E-06	4.284E-06	4.328E-06	4.343E-06	4.328E-06	4.273E-06	4.273E-06	4.257E-06	4.299E-06	4.255E-06	4.226E-06	4.285E-06	4.258E-06	4.206E-06	4.206E-06	1.702E-06
NO2	R11_5028	4	1.612E-06	1.612E-06	1.612E-06	1.606E-06	1.606E-06	1.599E-06	1.612E-06	4.075E-06	3.962E-06	3.997E-06	4.050E-06	4.002E-06	4.002E-06	4.002E-06	4.020E-06	4.002E-06	4.050E-06	3.980E-06	4.016E-06	4.016E-06	3.966E-06	3.926E-06	3.910E-06	1.612E-06

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	R11_5028	5	1.575E-06	1.569E-06	1.569E-06	1.569E-06	1.569E-06	1.569E-06	1.582E-06	4.001E-06	3.962E-06	3.926E-06	3.945E-06	3.964E-06	3.983E-06	3.983E-06	3.913E-06	3.873E-06	3.908E-06	3.870E-06	3.832E-06	3.909E-06	3.856E-06	3.816E-06	3.798E-06	1.537E-06
NO2	R11_5028	6	1.469E-06	1.469E-06	1.453E-06	1.453E-06	1.453E-06	1.453E-06	1.478E-06	3.807E-06	3.692E-06	3.655E-06	3.700E-06	3.700E-06	3.745E-06	3.722E-06	3.722E-06	3.722E-06	3.700E-06	3.677E-06	3.714E-06	3.714E-06	3.629E-06	3.586E-06	3.565E-06	1.443E-06
NO2	R11_5028	7	1.468E-06	1.468E-06	1.468E-06	1.468E-06	1.460E-06	1.460E-06	1.468E-06	3.726E-06	3.655E-06	3.722E-06	3.691E-06	3.715E-06	3.715E-06	3.715E-06	3.715E-06	3.691E-06	3.643E-06	3.722E-06	3.677E-06	3.655E-06	3.692E-06	3.671E-06	3.649E-06	1.477E-06
NO2	R11_5028	8	1.451E-06	1.485E-06	1.478E-06	1.478E-06	1.478E-06	1.478E-06	1.502E-06	3.786E-06	3.677E-06	3.767E-06	3.739E-06	3.763E-06	3.739E-06	3.715E-06	3.715E-06	3.691E-06	3.745E-06	3.677E-06	3.609E-06	3.609E-06	3.671E-06	3.628E-06	3.607E-06	1.460E-06
NO2	R11_5028	9	1.574E-06	1.602E-06	1.594E-06	1.602E-06	1.602E-06	1.602E-06	1.610E-06	4.150E-06	4.053E-06	4.032E-06	4.096E-06	4.060E-06	4.060E-06	4.060E-06	4.060E-06	4.015E-06	3.993E-06	4.053E-06	4.011E-06	3.990E-06	4.033E-06	3.989E-06	3.950E-06	1.598E-06
NO2	R11_5028	10	1.679E-06	1.679E-06	1.703E-06	1.696E-06	1.689E-06	1.689E-06	1.689E-06	4.340E-06	4.227E-06	4.263E-06	4.246E-06	4.265E-06	4.284E-06	4.284E-06	4.233E-06	4.265E-06	4.227E-06	4.190E-06	4.152E-06	4.114E-06	4.175E-06	4.132E-06	4.132E-06	1.672E-06
NO2	R11_5028	11	1.790E-06	1.820E-06	1.820E-06	1.820E-06	1.842E-06	1.842E-06	1.847E-06	4.704E-06	4.601E-06	4.588E-06	4.577E-06	4.607E-06	4.554E-06	4.554E-06	4.539E-06	4.492E-06	4.504E-06	4.460E-06	4.445E-06	4.431E-06	4.416E-06	4.438E-06	4.438E-06	1.790E-06
NO2	R11_5028	12	1.870E-06	1.870E-06	1.890E-06	1.894E-06	1.898E-06	1.902E-06	1.902E-06	4.846E-06	4.734E-06	4.711E-06	4.734E-06	4.700E-06	4.712E-06	4.724E-06	4.691E-06	4.665E-06	4.676E-06	4.640E-06	4.615E-06	4.655E-06	4.620E-06	4.633E-06	4.623E-06	1.870E-06
NO2	R11a_5028	1	1.818E-06	1.818E-06	1.841E-06	1.841E-06	1.841E-06	1.841E-06	1.841E-06	6.487E-06	6.475E-06	6.448E-06	6.404E-06	6.421E-06	6.455E-06	6.455E-06	6.361E-06	6.343E-06	6.388E-06	6.353E-06	6.320E-06	6.303E-06	6.252E-06	6.225E-06	6.326E-06	1.822E-06
NO2	R11a_5028	2	1.721E-06	1.721E-06	1.716E-06	1.716E-06	1.740E-06	1.740E-06	1.735E-06	6.042E-06	6.072E-06	6.048E-06	6.106E-06	6.049E-06	6.069E-06	6.069E-06	6.069E-06	6.049E-06	6.008E-06	6.048E-06	6.009E-06	5.971E-06	6.018E-06	5.974E-06	5.956E-06	1.716E-06
NO2	R11a_5028	3	1.696E-06	1.721E-06	1.716E-06	1.721E-06	1.721E-06	1.721E-06	1.726E-06	6.033E-06	6.067E-06	6.008E-06	6.069E-06	6.090E-06	6.069E-06	5.992E-06	5.992E-06	5.970E-06	6.028E-06	5.966E-06	5.926E-06	6.009E-06	5.971E-06	5.907E-06	5.907E-06	1.702E-06
NO2	R11a_5028	4	1.612E-06	1.612E-06	1.612E-06	1.606E-06	1.606E-06	1.599E-06	1.612E-06	5.630E-06	5.556E-06	5.605E-06	5.679E-06	5.611E-06	5.611E-06	5.611E-06	5.637E-06	5.611E-06	5.679E-06	5.581E-06	5.631E-06	5.631E-06	5.562E-06	5.515E-06	5.492E-06	1.612E-06
NO2	R11a_5028	5	1.575E-06	1.569E-06	1.569E-06	1.569E-06	1.569E-06	1.569E-06	1.582E-06	5.526E-06	5.556E-06	5.506E-06	5.532E-06	5.558E-06	5.585E-06	5.585E-06	5.487E-06	5.431E-06	5.480E-06	5.427E-06	5.374E-06	5.481E-06	5.407E-06	5.360E-06	5.334E-06	1.537E-06
NO2	R11a_5028	6	1.469E-06	1.469E-06	1.453E-06	1.453E-06	1.453E-06	1.453E-06	1.478E-06	5.253E-06	5.178E-06	5.125E-06	5.188E-06	5.188E-06	5.251E-06	5.219E-06	5.219E-06	5.219E-06	5.188E-06	5.156E-06	5.207E-06	5.207E-06	5.088E-06	5.037E-06	5.008E-06	1.443E-06
NO2	R11a_5028	7	1.468E-06	1.468E-06	1.468E-06	1.468E-06	1.460E-06	1.460E-06	1.468E-06	5.139E-06	5.125E-06	5.219E-06	5.176E-06	5.210E-06	5.210E-06	5.210E-06	5.210E-06	5.176E-06	5.109E-06	5.219E-06	5.156E-06	5.125E-06	5.178E-06	5.156E-06	5.126E-06	1.477E-06
NO2	R11a_5028	8	1.451E-06	1.485E-06	1.478E-06	1.478E-06	1.478E-06	1.478E-06	1.502E-06	5.224E-06	5.156E-06	5.282E-06	5.243E-06	5.276E-06	5.243E-06	5.210E-06	5.210E-06	5.176E-06	5.251E-06	5.156E-06	5.061E-06	5.061E-06	5.148E-06	5.096E-06	5.067E-06	1.460E-06
NO2	R11a_5028	9	1.574E-06	1.602E-06	1.594E-06	1.602E-06	1.602E-06	1.602E-06	1.610E-06	5.734E-06	5.683E-06	5.654E-06	5.743E-06	5.693E-06	5.693E-06	5.693E-06	5.693E-06	5.630E-06	5.599E-06	5.684E-06	5.624E-06	5.594E-06	5.655E-06	5.603E-06	5.548E-06	1.598E-06
NO2	R11a_5028	10	1.679E-06	1.679E-06	1.703E-06	1.696E-06	1.689E-06	1.689E-06	1.689E-06	6.001E-06	5.928E-06	5.977E-06	5.954E-06	5.981E-06	6.007E-06	6.007E-06	5.936E-06	5.981E-06	5.928E-06	5.875E-06	5.822E-06	5.769E-06	5.854E-06	5.804E-06	5.804E-06	1.672E-06
NO2	R11a_5028	11	1.790E-06	1.820E-06	1.820E-06	1.820E-06	1.842E-06	1.842E-06	1.847E-06	6.513E-06	6.451E-06	6.433E-06	6.419E-06	6.459E-06	6.386E-06	6.386E-06	6.364E-06	6.298E-06	6.316E-06	6.255E-06	6.234E-06	6.213E-06	6.193E-06	6.233E-06	6.233E-06	1.790E-06
NO2	R11a_5028	12	1.870E-06	1.870E-06	1.890E-06	1.894E-06	1.898E-06	1.902E-06	1.902E-06	6.712E-06	6.639E-06	6.606E-06	6.638E-06	6.591E-06	6.608E-06	6.624E-06	6.578E-06	6.541E-06	6.557E-06	6.506E-06	6.472E-06	6.527E-06	6.479E-06	6.507E-06	6.493E-06	1.870E-06
NO2	R12_5028	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.012E-06	1.858E-06	1.850E-06	1.837E-06	1.842E-06	1.852E-06	1.852E-06	1.825E-06	1.820E-06	1.832E-06	1.823E-06	1.813E-06	1.808E-06	1.793E-06	1.793E-06	1.822E-06	0.000E+00
NO2	R12_5028	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.884E-06	1.742E-06	1.735E-06	1.751E-06	1.735E-06	1.741E-06	1.741E-06	1.741E-06	1.735E-06	1.723E-06	1.735E-06	1.724E-06	1.713E-06	1.726E-06	1.721E-06	1.716E-06	0.000E+00
NO2	R12_5028	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.881E-06	1.740E-06	1.723E-06	1.741E-06	1.747E-06	1.741E-06	1.719E-06	1.719E-06	1.713E-06	1.729E-06	1.711E-06	1.700E-06	1.724E-06	1.713E-06	1.702E-06	1.702E-06	0.000E+00
NO2	R12_5028	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.765E-06	1.594E-06	1.608E-06	1.629E-06	1.610E-06	1.610E-06	1.610E-06	1.617E-06	1.610E-06	1.629E-06	1.601E-06	1.615E-06	1.615E-06	1.595E-06	1.589E-06	1.582E-06	0.000E+00
NO2	R12_5028	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.735E-06	1.594E-06	1.579E-06	1.587E-06	1.594E-06	1.602E-06	1.602E-06	1.574E-06	1.558E-06	1.572E-06	1.557E-06	1.541E-06	1.572E-06	1.551E-06	1.544E-06	1.537E-06	0.000E+00
NO2	R12_5028	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.656E-06	1.485E-06	1.470E-06	1.488E-06	1.488E-06	1.506E-06	1.497E-06	1.497E-06	1.497E-06	1.488E-06	1.479E-06	1.494E-06	1.494E-06	1.460E-06	1.451E-06	1.443E-06	0.000E+00
NO2	R12_5028	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.623E-06	1.470E-06	1.497E-06	1.485E-06	1.494E-06	1.494E-06	1.494E-06	1.494E-06	1.485E-06	1.465E-06	1.497E-06	1.479E-06	1.470E-06	1.485E-06	1.485E-06	1.477E-06	0.000E+00
NO2	R12_5028	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.648E-06	1.479E-06	1.515E-06	1.504E-06	1.514E-06	1.504E-06	1.494E-06	1.494E-06	1.485E-06	1.506E-06	1.479E-06	1.452E-06	1.452E-06	1.477E-06	1.468E-06	1.460E-06	0.000E+00
NO2	R12_5028	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.795E-06	1.630E-06	1.622E-06	1.648E-06	1.633E-06	1.633E-06	1.633E-06	1.633E-06	1.615E-06	1.606E-06	1.630E-06	1.613E-06	1.605E-06	1.622E-06	1.614E-06	1.598E-06	0.000E+00
NO2	R12_5028	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.872E-06	1.700E-06	1.715E-06	1.708E-06	1.716E-06	1.723E-06	1.723E-06	1.703E-06	1.716E-06	1.700E-06	1.685E-06	1.670E-06	1.655E-06	1.679E-06	1.672E-06	1.672E-06	0.000E+00
NO2	R12_5028	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.019E-06	1.851E-06	1.845E-06	1.841E-06	1.853E-06	1.832E-06	1.832E-06	1.826E-06	1.807E-06	1.812E-06	1.794E-06	1.788E-06	1.782E-06	1.776E-06	1.796E-06	1.796E-06	0.000E+00
NO2	R12_5028	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.077E-06	1.904E-06	1.895E-06	1.904E-06	1.891E-06	1.895E-06	1.900E-06	1.887E-06	1.876E-06	1.881E-06	1.866E-06	1.856E-06	1.872E-06	1.859E-06	1.875E-06	1.870E-06	0.000E+00
NO2	R1b_5028	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.242E-08	5.219E-08	5.184E-08	5.198E-08	5.225E-08	5.225E-08	5.149E-08	5.135E-08	5.170E-08	5.143E-08	5.116E-08	5.102E-08	5.061E-08	5.061E-08	0.000E+00	0.000E+00
NO2	R1b_5028	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.915E-08	4.895E-08	4.942E-08	4.897E-08	4.913E-08	4.913E-08	4.913E-08	4.897E-08	4.863E-08	4.895E-08	4.864E-08	4.833E-08	4.871E-08	4.857E-08	0.000E+00	0.000E+00
NO2	R1b_5028	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.911E-08	4.863E-08	4.913E-08	4.929E-08	4.913E-08	4.850E-08	4.850E-08	4.832E-08	4.879E-08	4.830E-08	4.797E-08	4.864E-08	4.833E-08	4.802E-08	0.000E+00	0.000E+00
NO2	R1b_5028	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.497E-08	4.537E-08	4.597E-08	4.542E-08	4.542E-08	4.542E-08	4.563E-08	4.542E-08	4.597E-08	4.517E-08	4.558E-08	4.558E-08	4.502E-08	4.483E-08	0.000E+00	0.000E+00
NO2	R1b_5028	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.497E-08	4.457E-08	4.478E-08	4.499E-08	4.521E-08	4.521E-08	4.442E-08	4.396E-08	4.436E-08	4.393E-08	4.350E-08	4.437E-08	4.377E-08	4.357E-08	0.000E+00	0.000E+00
NO2	R1b_5028	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.191E-08	4.148E-08	4.199E-08	4.199E-08	4.250E-08	4.225E-08	4.225E-08	4.225E-08	4.199E-08	4.173E-08	4.215E-08	4.215E-08	4.119E-08	4.095E-08	0.000E+00	0.000E+00
NO2	R1b_5028	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.148E-08	4.225E-08	4.190E-08	4.217E-08	4.217E-08	4.217E-08	4.217E-08	4.190E-08	4.135E-08	4.225E-08	4.173E-08	4.148E-08	4.191E-08	4.191E-08	0.000E+00	0.000E+00
NO2	R1b_5028	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.173E-08	4.276E-08	4.244E-08	4.271E-08	4.244E-08	4.217E-08	4.217E-08	4.190E-08	4.250E-08	4.173E-08	4.097E-08	4.097E-08	4.167E-08	4.143E-08	0.000E+00	0.000E+00
NO2	R1b_5028	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.600E-08	4.577E-08	4.649E-08	4.608E-08	4.608E-08	4.608E-08	4.608E-08	4.557E-08	4.532E-08	4.601E-08	4.553E-08	4.529E-08	4.578E-08	4.555E-08	0.000E+00	0.000E+00
NO2	R1b_5028	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.798E-08	4.838E-08	4.820E-08	4.841E-08	4.862E-08	4.862E-08	4.805E-08	4.841E-08	4.798E-08	4.755E-08	4.713E-08	4.670E-08	4.738E-08	4.718E-08	0.000E+00	0.000E+00
NO2	R1b_5028	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.222E-08	5.208E-08	5.196E-08	5.229E-08	5.169E-08	5.169E-08	5.152E-08	5.098E-08	5.112E-08	5.063E-08	5.046E-08	5.029E-08	5.013E-08	5.067E-08	0.000E+00	0.000E+00
NO2	R1b_5028	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.374E-08	5.347E-08	5.373E-08	5.335E-08	5.349E-08	5.362E-08	5.325E-08	5.295E-08	5.307E-08	5.266E-08	5.239E-08	5.283E-08	5.245E-08	5.290E-08	0.000E+00	0.000E+00
NO2	R1b_5029	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.242E-08	5.206E-08	5.245E-08	5.198E-08	5.225E-08	5.225E-08	5.149E-08	5.135E-08	5.170E-08	5.143E-08	5.116E-08	5.102E-08	5.061E-08	5.129E-08	0.000E+00	0.000E+00
NO2	R1b_5029	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.915E-08	4.895E-08	4.942E-08	4.897E-08	4.913E-08	4.929E-08	4.929E-08	4.913E-08	4.879E-08	4.895E-08	4.864E-08	4.833E-08	4.871E-08	4.857E-08	0.000E+00	0.000E+00
NO2	R1b_5029	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.911E-08	4.879E-08	4.913E-08	4.929E-08	4.929E-08	4.868E-08	4.868E-08	4.850E-08	4.879E-08	4.847E-08	4.797E-08	4.864E-08	4.833E-08	4.802E-08	0.000E+00	0.000E+00
NO2	R1b_5029	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.517E-08	4.557E-08	4.542E-08	4.563E-08	4.585E-08	4.585E-08	4.585E-08	4.563E-08	4.597E-08	4.537E-08	4.577E-08	4.558E-08	4.502E-08	4.483E-08	0.000E+00	0.000E+00
NO2	R1b_5029	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.497E-08	4.457E-08	4.499E-08	4.521E-08	4.521E-08	4.521E-08	4.442E-08	4.419E-08	4.457E-08	4.393E-08	4.350E-08	4.437E-08	4.377E-08	4.357E-08	0.000E+00	0.000E+00
NO2	R1b_5029	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.191E-08	4.173E-08	4.199E-08	4.250E-08	4.276E-08	4.276E-08	4.135E-08	4.250E-08	4.225E-08	4.173E-08	4.215E-08	4.215E-08	4.119E-08	4.095E-08	0.000E+00	0.000E+00
NO2	R1b_5029	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.173E-08	4.250E-08	4.217E-08	4.244E-08	4.271E-08	4.244E-08	4.244E-08	4.217E-08	4.162E-08	4.225E-08	4.173E-08	4.148E-08	4.191E-08	4.167E-08	0.000E+00	0.000E+00
NO2	R1b_5029	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.287E-08	4.276E-08	4.244E-08	4.298E-08	4.271E-08	4.244E-08	4.244E-08	4.190E-08	4.250E-08	4.173E-08	4.122E-08	4.097E-08	4.167E-08	4.143E-08	0.000E+00	0.000E+00
NO2	R1b_5029	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.600E-08	4.601E-08	4.649E-08	4.608E-08	4.634E-08	4.608E-08	4.608E-08	4.583E-08	4.557E-08	4.601E-08	4.553E-08	4.529E-08	4.578E-08	4.532E-08	0.000E+00	0.000E+00
NO2	R1b_5029	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.798E-08	4.838E-08	4.820E-08	4.862E-08	4.862E-08	4.862E-08	4.884E-08	4.862E-08	4.798E-08	4.755E-08	4.713E-08	4.670E-08	4.738E-08	4.718E-08	0.000E+00	0.000E+00
NO2	R1b_5029	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.222E-08	5.208E-08	5.196E-08	5.229E-08	5.229E-08	5.169E-08	5.152E-08	5.098E-08	5.112E-08	5.063E-08	5.046E-08	5.029E-08	5.083E-08	5.067E-08	0.000E+00	0.000E+00
NO2	R1b_5029	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.374E-08	5.398E-08	5.373E-08	5.386E-08	5.349E-08	5.362E-08	5.325E-08	5.295E-08	5.321E-08	5.266E-08	5.239E-08	5.283E-08	5.245E-08	5.290E-08	0.000E+00	0.000E+00
NO2	R5_5027	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.120E-06	3.015E-06	3.022E-06	2.992E-06	3.000E-06	3.000E-06	3.000E-06	2.978E-06	2.978E-06	2.970E-06	2.962E-06	2.954E-06	2.946E-06	2.922E-06	2.922E-06	2.970E-06	0.000E+00
NO2	R5_5027	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.962E-06	2.819E-06	2.836E-06	2.844E-06	2.853E-06	2.806E-06	2.806E-06	2.833E-06	2.833E-06	2.824E-06	2.806E-06	2.797E-06	2.797E-06	2.811E-06	2.802E-06	2.802E-06	0.000E+00
NO2	R5_5027	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.939E-06	2.844E-06	2.806E-06	2.815E-06	2.815E-06	2.815E-06	2.824E-06	2.794E-06	2.794E-06	2.775E-06	2.765E-06	2.755E-06	2.746E-06	2.778E-06	2.769E-06	2.769E-06	0.000E+00
NO2	R5_5027	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.742E-06	2.603E-06	2.613E-06	2.624E-06	2.635E-06	2.646E-06	2.635E-06	2.611E-06	2.599E-06	2.587E-06	2.576E-06	2.613E-06	2.564E-06	2.581E-06	2.581E-06	2.581E-06	0.000E+00
NO2	R5_5027	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.692E-06	2.541E-06	2.552E-06	2.564E-06	2.576E-06	2.576E-06	2.576E-06	2.538E-06	2.525E-06	2.513E-06	2.500E-06	2.488E-06	2.541E-06	2.506E-06	2.506E-06	2.494E-06	0.000E+00
NO2	R5_5027	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.505E-06	2.420E-06	2.377E-06	2.391E-06	2.391E-06	2.391E-06	2.391E-06	2.349E-06	2.349E-06	2.349E-06	2.349E-06	2.405E-06	2.405E-06	2.363E-06	2.349E-06	2.349E-06	0.000E+00
NO2	R5_5027	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.503E-06	2.405E-06	2.349E-06	2.378E-06	2.378E-06	2.378E-06	2.378E-06	2.393E-06	2.393E-06	2.378E-06	2.378E-06	2.363E-06	2.363E-06	2.405E-06	2.405E-06	2.391E-06	0.000E+00
NO2	R5_5027	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.489E-06	2.405E-06	2.433E-06	2.393E-06	2.408E-06	2.393E-06	2.393E-06	2.393E-06	2.393E-06	2.378E-06	2.349E-06	2.334E-06	2.349E-06	2.391E-06	2.377E-06	2.377E-06	0.000E+00
NO2	R5_5027	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.736E-06	2.605E-06	2.631E-06	2.657E-06	2.657E-06	2.615E-06	2.615E-06	2.629E-06	2.615E-06	2.615E-06	2.601E-06	2.601E-06	2.601E-06	2.559E-06	2.605E-06	2.592E-06	0.000E+00
NO2	R5_5027	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.867E-06	2.767E-06	2.739E-06	2.762E-06	2.774E-06	2.774E-06	2.774E-06	2.748E-06	2.736E-06	2.723E-06	2.711E-06	2.699E-06	2.686E-06	2.662E-06	2.715E-06	2.715E-06	0.000E+00
NO2	R5_5027	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.129E-06	2.989E-06	3.006E-06	2.987E-06	2.996E-06	2.958E-06	2.958E-06	2.958E-06	2.939E-06	2.929E-06	2.910E-06	2.910E-06	2.900E-06	2.891E-06	2.891E-06	2.933E-06	0.000E+00
NO2	R5_5027	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.221E-06	3.092E-06	3.092E-06	3.099E-06	3.075E-06	3.075E-06	3.082E-06	3.073E-06	3.065E-06	3.049E-06	3.033E-06	3.025E-06	3.017E-06	3.030E-06	3.022E-06	3.022E-06	0.000E+00
NO2	R6_5028	1	1.818E-06	1.818E-06	1.841E-06	1.841E-06	1.841E-06	1.841E-06	1.841E-06	3.682E-06	3.481E-06	3.466E-06	3.442E-06	3.451E-06	3.470E-06	3.470E-06	3.419E-06	3.410E-06	3.433E-06	3.415E-06	3.397E-06	3.388E-06	3.360E-06	3.360E-06	3.415E-06	1.822E-06
NO2	R6_5028	2	1.721E-06	1.721E-06	1.716E-06	1.716E-06	1.740E-06	1.740E-06	1.735E-06	3.442E-06	3.264E-06	3.251E-06	3.282E-06	3.251E-06	3.262E-06	3.262E-06	3.262E-06	3.251E-06	3.229E-06	3.251E-06	3.230E-06	3.209E-06	3.235E-06	3.225E-06	3.215E-06	1.716E-06
NO2	R6_5028	3	1.696E-06	1.721E-06	1.716E-06	1.721E-06	1.721E-06	1.721E-06	1.726E-06	3.437E-06	3.261E-06	3.229E-06	3.262E-06	3.273E-06	3.262E-06	3.221E-06	3.221E-06	3.209E-06	3.240E-06	3.207E-06	3.185E-06	3.230E-06	3.209E-06	3.189E-06	3.189E-06	1.702E-06
NO2	R6_5028	4	1.612E-06	1.612E-06	1.612E-06	1.606E-06	1.606E-06	1.599E-06	1.612E-06	3.219E-06	2.986E-06	3.013E-06	3.053E-06	3.016E-06	3.016E-06	3.016E-06	3.030E-06	3.016E-06	3.053E-06	3.000E-06	3.027E-06	3.027E-06	2.990E-06	2.977E-06	2.965E-06	1.612E-06
NO2	R6_5028	5	1.575E-06	1.569E-06	1.569E-06	1.569E-06	1.569E-06	1.569E-06	1.582E-06	3.163E-06	2.986E-06	2.959E-06	2.974E-06	2.988E-06	3.002E-06	3.002E-06	2.949E-06	2.919E-06	2.945E-06	2.917E-06	2.888E-06	2.946E-06	2.906E-06	2.893E-06	2.879E-06	1.537E-06
NO2	R6_5028	6	1.469E-06	1.469E-06	1.453E-06	1.453E-06	1.453E-06	1.453E-06	1.478E-06	3.016E-06	2.783E-06	2.755E-06	2.788E-06	2.788E-06	2.822E-06	2.805E-06	2.805E-06	2.805E-06	2.788E-06	2.771E-06	2.799E-06	2.799E-06	2.735E-06	2.719E-06	2.703E-06	1.443E-06
NO2	R6_5028	7	1.468E-06	1.468E-06	1.468E-06	1.468E-06	1.460E-06	1.460E-06	1.468E-06	2.954E-06	2.755E-06	2.805E-06	2.782E-06	2.800E-06	2.800E-06	2.800E-06	2.800E-06	2.782E-06	2.746E-06	2.805E-06	2.771E-06	2.755E-06	2.783E-06	2.783E-06	2.767E-06	1.477E-06
NO2	R6_5028	8	1.451E-06	1.485E-06	1.478E-06	1.478E-06	1.478E-06	1.478E-06	1.502E-06	3.000E-06	2.771E-06	2.839E-06	2.818E-06	2.836E-06	2.818E-06	2.800E-06	2.800E-06	2.782E-06	2.822E-06	2.771E-06	2.721E-06	2.721E-06	2.767E-06	2.751E-06	2.735E-06	1.460E-06
NO2	R6_5028	9	1.574E-06	1.602E-06	1.594E-06	1.602E-06	1.602E-06	1.602E-06	1.610E-06	3.276E-06	3.055E-06	3.039E-06	3.087E-06	3.060E-06	3.060E-06	3.060E-06	3.060E-06	3.026E-06	3.009E-06	3.055E-06	3.023E-06	3.007E-06	3.040E-06	3.025E-06	2.995E-06	1.598E-06
NO2	R6_5028	10	1.679E-06	1.679E-06	1.703E-06	1.696E-06	1.689E-06	1.689E-06	1.689E-06	3.420E-06	3.186E-06	3.213E-06	3.200E-06	3.215E-06	3.229E-06	3.229E-06	3.191E-06	3.215E-06	3.186E-06	3.158E-06	3.130E-06	3.101E-06	3.146E-06	3.133E-06	3.133E-06	1.672E-06
NO2	R6_5028	11	1.790E-06	1.820E-06	1.820E-06	1.820E-06	1.842E-06	1.842E-06	1.847E-06	3.696E-06	3.468E-06	3.458E-06	3.450E-06	3.472E-06	3.433E-06	3.433E-06	3.421E-06	3.385E-06	3.395E-06	3.362E-06	3.351E-06	3.340E-06	3.329E-06	3.365E-06	3.365E-06	1.790E-06
NO2	R6_5028	12	1.870E-06	1.870E-06	1.890E-06	1.894E-06	1.898E-06	1.902E-06	1.902E-06	3.804E-06	3.568E-06	3.551E-06	3.568E-06	3.543E-06	3.552E-06	3.561E-06	3.536E-06	3.516E-06	3.524E-06	3.497E-06	3.479E-06	3.508E-06	3.483E-06	3.513E-06	3.505E-06	1.870E-06

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For NO and NO2 Long-Term Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Average Temperature', 'Average Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the average of temperature and relative humidity respectively in all same hours in each corresponding month, taken from the respective PATH Met Data.

Unit	**Parameter**
g/m2/s	Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
NO2	R7_5028	1	3.635E-06	3.635E-06	3.681E-06	3.681E-06	3.681E-06	3.681E-06	3.681E-06	3.869E-06	3.843E-06	3.826E-06	3.800E-06	3.810E-06	3.831E-06	3.831E-06	3.775E-06	3.764E-06	3.790E-06	3.770E-06	3.750E-06	3.740E-06	3.710E-06	3.710E-06	3.718E-06	3.645E-06
NO2	R7_5028	2	3.442E-06	3.442E-06	3.432E-06	3.432E-06	3.480E-06	3.480E-06	3.470E-06	3.607E-06	3.603E-06	3.589E-06	3.623E-06	3.590E-06	3.602E-06	3.602E-06	3.602E-06	3.590E-06	3.565E-06	3.589E-06	3.566E-06	3.543E-06	3.571E-06	3.560E-06	3.501E-06	3.432E-06
NO2	R7_5028	3	3.392E-06	3.442E-06	3.432E-06	3.442E-06	3.442E-06	3.442E-06	3.453E-06	3.602E-06	3.600E-06	3.565E-06	3.602E-06	3.614E-06	3.602E-06	3.556E-06	3.556E-06	3.543E-06	3.577E-06	3.540E-06	3.516E-06	3.566E-06	3.543E-06	3.520E-06	3.472E-06	3.403E-06
NO2	R7_5028	4	3.224E-06	3.224E-06	3.224E-06	3.211E-06	3.211E-06	3.199E-06	3.224E-06	3.365E-06	3.297E-06	3.326E-06	3.370E-06	3.330E-06	3.330E-06	3.330E-06	3.345E-06	3.330E-06	3.370E-06	3.312E-06	3.342E-06	3.342E-06	3.300E-06	3.287E-06	3.228E-06	3.224E-06
NO2	R7_5028	5	3.151E-06	3.138E-06	3.138E-06	3.138E-06	3.138E-06	3.138E-06	3.164E-06	3.304E-06	3.297E-06	3.267E-06	3.283E-06	3.298E-06	3.314E-06	3.314E-06	3.256E-06	3.223E-06	3.252E-06	3.220E-06	3.189E-06	3.253E-06	3.209E-06	3.194E-06	3.136E-06	3.073E-06
NO2	R7_5028	6	2.939E-06	2.939E-06	2.907E-06	2.907E-06	2.907E-06	2.907E-06	2.955E-06	3.143E-06	3.072E-06	3.041E-06	3.078E-06	3.078E-06	3.116E-06	3.097E-06	3.097E-06	3.097E-06	3.078E-06	3.060E-06	3.090E-06	3.090E-06	3.019E-06	3.002E-06	2.943E-06	2.885E-06
NO2	R7_5028	7	2.936E-06	2.936E-06	2.936E-06	2.936E-06	2.919E-06	2.919E-06	2.936E-06	3.076E-06	3.041E-06	3.097E-06	3.072E-06	3.091E-06	3.091E-06	3.091E-06	3.091E-06	3.072E-06	3.031E-06	3.097E-06	3.060E-06	3.041E-06	3.072E-06	3.072E-06	3.013E-06	2.953E-06
NO2	R7_5028	8	2.902E-06	2.971E-06	2.955E-06	2.955E-06	2.955E-06	2.955E-06	3.003E-06	3.126E-06	3.060E-06	3.135E-06	3.111E-06	3.131E-06	3.111E-06	3.091E-06	3.091E-06	3.072E-06	3.116E-06	3.060E-06	3.003E-06	3.003E-06	3.055E-06	3.037E-06	2.978E-06	2.919E-06
NO2	R7_5028	9	3.148E-06	3.204E-06	3.189E-06	3.204E-06	3.204E-06	3.204E-06	3.219E-06	3.426E-06	3.372E-06	3.355E-06	3.408E-06	3.378E-06	3.378E-06	3.378E-06	3.378E-06	3.341E-06	3.322E-06	3.373E-06	3.337E-06	3.320E-06	3.356E-06	3.339E-06	3.261E-06	3.196E-06
NO2	R7_5028	10	3.358E-06	3.358E-06	3.405E-06	3.392E-06	3.378E-06	3.378E-06	3.378E-06	3.583E-06	3.518E-06	3.547E-06	3.533E-06	3.549E-06	3.565E-06	3.565E-06	3.522E-06	3.549E-06	3.518E-06	3.486E-06	3.455E-06	3.424E-06	3.474E-06	3.459E-06	3.411E-06	3.344E-06
NO2	R7_5028	11	3.580E-06	3.639E-06	3.639E-06	3.639E-06	3.684E-06	3.684E-06	3.694E-06	3.884E-06	3.828E-06	3.818E-06	3.809E-06	3.833E-06	3.790E-06	3.790E-06	3.777E-06	3.737E-06	3.748E-06	3.712E-06	3.699E-06	3.687E-06	3.675E-06	3.715E-06	3.664E-06	3.580E-06
NO2	R7_5028	12	3.741E-06	3.741E-06	3.780E-06	3.788E-06	3.796E-06	3.804E-06	3.804E-06	4.001E-06	3.940E-06	3.920E-06	3.939E-06	3.911E-06	3.921E-06	3.931E-06	3.903E-06	3.882E-06	3.891E-06	3.861E-06	3.840E-06	3.873E-06	3.845E-06	3.878E-06	3.817E-06	3.741E-06
NO2	R8_5028	1	3.635E-06	3.635E-06	3.681E-06	3.681E-06	3.681E-06	3.681E-06	3.681E-06	3.883E-06	3.843E-06	3.826E-06	3.800E-06	3.810E-06	3.831E-06	3.831E-06	3.775E-06	3.764E-06	3.790E-06	3.770E-06	3.750E-06	3.740E-06	3.710E-06	3.710E-06	3.718E-06	3.645E-06
NO2	R8_5028	2	3.442E-06	3.442E-06	3.432E-06	3.432E-06	3.480E-06	3.480E-06	3.470E-06	3.622E-06	3.603E-06	3.589E-06	3.623E-06	3.590E-06	3.602E-06	3.602E-06	3.602E-06	3.590E-06	3.565E-06	3.589E-06	3.566E-06	3.543E-06	3.571E-06	3.560E-06	3.501E-06	3.432E-06
NO2	R8_5028	3	3.392E-06	3.442E-06	3.432E-06	3.442E-06	3.442E-06	3.442E-06	3.453E-06	3.616E-06	3.600E-06	3.565E-06	3.602E-06	3.614E-06	3.602E-06	3.556E-06	3.556E-06	3.543E-06	3.577E-06	3.540E-06	3.516E-06	3.566E-06	3.543E-06	3.520E-06	3.472E-06	3.403E-06
NO2	R8_5028	4	3.224E-06	3.224E-06	3.224E-06	3.211E-06	3.211E-06	3.199E-06	3.224E-06	3.379E-06	3.297E-06	3.326E-06	3.370E-06	3.330E-06	3.330E-06	3.330E-06	3.345E-06	3.330E-06	3.370E-06	3.312E-06	3.342E-06	3.342E-06	3.300E-06	3.287E-06	3.228E-06	3.224E-06
NO2	R8_5028	5	3.151E-06	3.138E-06	3.138E-06	3.138E-06	3.138E-06	3.138E-06	3.164E-06	3.318E-06	3.297E-06	3.267E-06	3.283E-06	3.298E-06	3.314E-06	3.314E-06	3.256E-06	3.223E-06	3.252E-06	3.220E-06	3.189E-06	3.253E-06	3.209E-06	3.194E-06	3.136E-06	3.073E-06
NO2	R8_5028	6	2.939E-06	2.939E-06	2.907E-06	2.907E-06	2.907E-06	2.907E-06	2.955E-06	3.157E-06	3.072E-06	3.041E-06	3.078E-06	3.078E-06	3.116E-06	3.097E-06	3.097E-06	3.097E-06	3.078E-06	3.060E-06	3.090E-06	3.090E-06	3.019E-06	3.002E-06	2.943E-06	2.885E-06
NO2	R8_5028	7	2.936E-06	2.936E-06	2.936E-06	2.936E-06	2.919E-06	2.919E-06	2.936E-06	3.091E-06	3.041E-06	3.097E-06	3.072E-06	3.091E-06	3.091E-06	3.091E-06	3.091E-06	3.072E-06	3.031E-06	3.097E-06	3.060E-06	3.041E-06	3.072E-06	3.072E-06	3.013E-06	2.953E-06
NO2	R8_5028	8	2.902E-06	2.971E-06	2.955E-06	2.955E-06	2.955E-06	2.955E-06	3.003E-06	3.140E-06	3.060E-06	3.135E-06	3.111E-06	3.131E-06	3.111E-06	3.091E-06	3.091E-06	3.072E-06	3.116E-06	3.060E-06	3.003E-06	3.003E-06	3.055E-06	3.037E-06	2.978E-06	2.919E-06
NO2	R8_5028	9	3.148E-06	3.204E-06	3.189E-06	3.204E-06	3.204E-06	3.204E-06	3.219E-06	3.441E-06	3.372E-06	3.355E-06	3.408E-06	3.378E-06	3.378E-06	3.378E-06	3.378E-06	3.341E-06	3.322E-06	3.373E-06	3.337E-06	3.320E-06	3.356E-06	3.339E-06	3.261E-06	3.196E-06
NO2	R8_5028	10	3.358E-06	3.358E-06	3.405E-06	3.392E-06	3.378E-06	3.378E-06	3.378E-06	3.597E-06	3.518E-06	3.547E-06	3.533E-06	3.549E-06	3.565E-06	3.565E-06	3.522E-06	3.549E-06	3.518E-06	3.486E-06	3.455E-06	3.424E-06	3.474E-06	3.459E-06	3.411E-06	3.344E-06
NO2	R8_5028	11	3.580E-06	3.639E-06	3.639E-06	3.639E-06	3.684E-06	3.684E-06	3.694E-06	3.898E-06	3.828E-06	3.818E-06	3.809E-06	3.833E-06	3.790E-06	3.790E-06	3.777E-06	3.737E-06	3.748E-06	3.712E-06	3.699E-06	3.687E-06	3.675E-06	3.715E-06	3.664E-06	3.580E-06
NO2	R8_5028	12	3.741E-06	3.741E-06	3.780E-06	3.788E-06	3.796E-06	3.804E-06	3.804E-06	4.015E-06	3.940E-06	3.920E-06	3.939E-06	3.911E-06	3.921E-06	3.931E-06	3.903E-06	3.882E-06	3.891E-06	3.861E-06	3.840E-06	3.873E-06	3.845E-06	3.878E-06	3.817E-06	3.741E-06
NO2	R9a_5028	1	4.743E-06	4.743E-06	4.803E-06	4.803E-06	4.803E-06	4.803E-06	4.803E-06	6.427E-06	6.448E-06	6.420E-06	6.377E-06	6.393E-06	6.427E-06	6.427E-06	6.333E-06	6.316E-06	6.360E-06	6.326E-06	6.293E-06	6.275E-06	6.225E-06	6.225E-06	6.274E-06	4.755E-06
NO2	R9a_5028	2	4.491E-06	4.491E-06	4.478E-06	4.478E-06	4.541E-06	4.541E-06	4.528E-06	5.986E-06	6.045E-06	6.022E-06	6.079E-06	6.023E-06	6.043E-06	6.043E-06	6.043E-06	6.023E-06	5.982E-06	6.022E-06	5.983E-06	5.945E-06	5.992E-06	5.974E-06	5.907E-06	4.478E-06
NO2	R9a_5028	3	4.426E-06	4.491E-06	4.478E-06	4.491E-06	4.491E-06	4.491E-06	4.505E-06	5.977E-06	6.041E-06	5.982E-06	6.043E-06	6.064E-06	6.043E-06	5.966E-06	5.966E-06	5.944E-06	6.002E-06	5.941E-06	5.900E-06	5.983E-06	5.945E-06	5.907E-06	5.859E-06	4.441E-06
NO2	R9a_5028	4	4.207E-06	4.207E-06	4.207E-06	4.190E-06	4.190E-06	4.174E-06	4.207E-06	5.576E-06	5.532E-06	5.581E-06	5.655E-06	5.587E-06	5.587E-06	5.587E-06	5.613E-06	5.587E-06	5.655E-06	5.557E-06	5.607E-06	5.607E-06	5.538E-06	5.515E-06	5.447E-06	4.207E-06
NO2	R9a_5028	5	4.111E-06	4.094E-06	4.094E-06	4.094E-06	4.094E-06	4.094E-06	4.128E-06	5.474E-06	5.532E-06	5.482E-06	5.508E-06	5.534E-06	5.561E-06	5.561E-06	5.463E-06	5.408E-06	5.456E-06	5.403E-06	5.351E-06	5.458E-06	5.384E-06	5.359E-06	5.291E-06	4.010E-06
NO2	R9a_5028	6	3.834E-06	3.834E-06	3.793E-06	3.793E-06	3.793E-06	3.793E-06	3.856E-06	5.203E-06	5.155E-06	5.102E-06	5.165E-06	5.165E-06	5.228E-06	5.196E-06	5.196E-06	5.196E-06	5.165E-06	5.134E-06	5.185E-06	5.185E-06	5.066E-06	5.037E-06	4.966E-06	3.764E-06
NO2	R9a_5028	7	3.831E-06	3.831E-06	3.831E-06	3.831E-06	3.809E-06	3.809E-06	3.831E-06	5.090E-06	5.102E-06	5.196E-06	5.154E-06	5.187E-06	5.187E-06	5.187E-06	5.187E-06	5.154E-06	5.087E-06	5.196E-06	5.134E-06	5.102E-06	5.155E-06	5.155E-06	5.084E-06	3.853E-06
NO2	R9a_5028	8	3.787E-06	3.876E-06	3.856E-06	3.856E-06	3.856E-06	3.856E-06	3.919E-06	5.174E-06	5.134E-06	5.259E-06	5.220E-06	5.254E-06	5.220E-06	5.187E-06	5.187E-06	5.154E-06	5.228E-06	5.134E-06	5.040E-06	5.040E-06	5.126E-06	5.096E-06	5.025E-06	3.809E-06
NO2	R9a_5028	9	4.107E-06	4.181E-06	4.161E-06	4.181E-06	4.181E-06	4.181E-06	4.200E-06	5.680E-06	5.659E-06	5.630E-06	5.719E-06	5.669E-06	5.669E-06	5.669E-06	5.669E-06	5.606E-06	5.575E-06	5.659E-06	5.600E-06	5.570E-06	5.631E-06	5.603E-06	5.502E-06	4.170E-06
NO2	R9a_5028	10	4.382E-06	4.382E-06	4.443E-06	4.425E-06	4.407E-06	4.407E-06	4.407E-06	5.945E-06	5.902E-06	5.951E-06	5.928E-06	5.955E-06	5.981E-06	5.981E-06	5.910E-06	5.955E-06	5.902E-06	5.849E-06	5.797E-06	5.745E-06	5.829E-06	5.803E-06	5.756E-06	4.363E-06
NO2	R9a_5028	11	4.672E-06	4.748E-06	4.748E-06	4.748E-06	4.806E-06	4.806E-06	4.819E-06	6.452E-06	6.424E-06	6.406E-06	6.391E-06	6.432E-06	6.359E-06	6.359E-06	6.337E-06	6.271E-06	6.288E-06	6.228E-06	6.207E-06	6.186E-06	6.166E-06	6.233E-06	6.182E-06	4.672E-06
NO2	R9a_5028	12	4.881E-06	4.881E-06	4.932E-06	4.942E-06	4.953E-06	4.964E-06	4.964E-06	6.650E-06	6.610E-06	6.578E-06	6.610E-06	6.563E-06	6.579E-06	6.596E-06	6.549E-06	6.513E-06	6.529E-06	6.478E-06	6.444E-06	6.499E-06	6.451E-06	6.507E-06	6.440E-06	4.881E-06
NO2	R9b_5027	1	2.911E-06	2.918E-06	2.911E-06	2.949E-06	2.955E-06	2.955E-06	2.949E-06	6.164E-06	6.057E-06	6.070E-06	6.011E-06	6.026E-06	6.026E-06	6.026E-06	5.981E-06	5.981E-06	5.965E-06	5.949E-06	5.933E-06	5.917E-06	5.869E-06	5.843E-06	5.888E-06	2.918E-06
NO2	R9b_5027	2	2.762E-06	2.762E-06	2.753E-06	2.753E-06	2.753E-06	2.801E-06	2.793E-06	5.851E-06	5.663E-06	5.697E-06	5.714E-06	5.731E-06	5.636E-06	5.636E-06	5.690E-06	5.690E-06	5.672E-06	5.636E-06	5.618E-06	5.618E-06	5.646E-06	5.604E-06	5.555E-06	2.753E-06
NO2	R9b_5027	3	2.721E-06	2.712E-06	2.753E-06	2.762E-06	2.762E-06	2.762E-06	2.762E-06	5.807E-06	5.714E-06	5.636E-06	5.654E-06	5.654E-06	5.654E-06	5.672E-06	5.612E-06	5.612E-06	5.574E-06	5.554E-06	5.535E-06	5.516E-06	5.581E-06	5.538E-06	5.491E-06	2.721E-06
NO2	R9b_5027	4	2.584E-06	2.584E-06	2.574E-06	2.574E-06	2.574E-06	2.574E-06	2.574E-06	5.415E-06	5.228E-06	5.250E-06	5.272E-06	5.294E-06	5.316E-06	5.294E-06	5.244E-06	5.221E-06	5.197E-06	5.174E-06	5.250E-06	5.150E-06	5.184E-06	5.161E-06	5.116E-06	2.525E-06
NO2	R9b_5027	5	2.514E-06	2.514E-06	2.514E-06	2.514E-06	2.514E-06	2.514E-06	2.525E-06	5.317E-06	5.104E-06	5.127E-06	5.150E-06	5.174E-06	5.174E-06	5.174E-06	5.098E-06	5.072E-06	5.047E-06	5.023E-06	4.997E-06	5.104E-06	5.033E-06	5.011E-06	4.945E-06	2.451E-06
NO2	R9b_5027	6	2.280E-06	2.280E-06	2.326E-06	2.326E-06	2.326E-06	2.326E-06	2.339E-06	4.946E-06	4.862E-06	4.775E-06	4.803E-06	4.803E-06	4.803E-06	4.803E-06	4.718E-06	4.718E-06	4.718E-06	4.718E-06	4.831E-06	4.831E-06	4.747E-06	4.697E-06	4.657E-06	2.294E-06
NO2	R9b_5027	7	2.349E-06	2.349E-06	2.349E-06	2.349E-06	2.335E-06	2.335E-06	2.335E-06	4.940E-06	4.831E-06	4.718E-06	4.777E-06	4.777E-06	4.777E-06	4.777E-06	4.807E-06	4.807E-06	4.777E-06	4.777E-06	4.747E-06	4.747E-06	4.831E-06	4.809E-06	4.740E-06	2.349E-06
NO2	R9b_5027	8	2.322E-06	2.308E-06	2.365E-06	2.365E-06	2.365E-06	2.365E-06	2.378E-06	4.913E-06	4.831E-06	4.887E-06	4.807E-06	4.837E-06	4.807E-06	4.807E-06	4.807E-06	4.807E-06	4.777E-06	4.718E-06	4.688E-06	4.718E-06	4.803E-06	4.753E-06	4.712E-06	2.322E-06
NO2	R9b_5027	9	2.520E-06	2.508E-06	2.554E-06	2.554E-06	2.554E-06	2.554E-06	2.554E-06	5.403E-06	5.232E-06	5.285E-06	5.338E-06	5.338E-06	5.252E-06	5.252E-06	5.281E-06	5.252E-06	5.252E-06	5.224E-06	5.224E-06	5.224E-06	5.140E-06	5.209E-06	5.138E-06	2.546E-06
NO2	R9b_5027	10	2.680E-06	2.680E-06	2.668E-06	2.708E-06	2.708E-06	2.697E-06	2.697E-06	5.664E-06	5.558E-06	5.501E-06	5.549E-06	5.572E-06	5.572E-06	5.572E-06	5.520E-06	5.496E-06	5.470E-06	5.446E-06	5.421E-06	5.396E-06	5.346E-06	5.430E-06	5.384E-06	2.668E-06
NO2	R9b_5027	11	2.864E-06	2.881E-06	2.912E-06	2.920E-06	2.912E-06	2.949E-06	2.957E-06	6.182E-06	6.004E-06	6.038E-06	6.000E-06	6.017E-06	5.942E-06	5.942E-06	5.942E-06	5.904E-06	5.884E-06	5.845E-06	5.845E-06	5.826E-06	5.806E-06	5.780E-06	5.814E-06	2.872E-06
NO2	R9b_5027	12	2.997E-06	2.997E-06	2.997E-06	3.036E-06	3.048E-06	3.048E-06	3.048E-06	6.364E-06	6.211E-06	6.211E-06	6.225E-06	6.176E-06	6.176E-06	6.191E-06	6.173E-06	6.157E-06	6.125E-06	6.093E-06	6.077E-06	6.061E-06	6.086E-06	6.044E-06	5.992E-06	3.003E-06
NO2	R9b_5028	1	2.926E-06	2.926E-06	2.963E-06	2.963E-06	2.963E-06	2.963E-06	2.963E-06	6.181E-06	6.112E-06	6.086E-06	6.045E-06	6.061E-06	6.093E-06	6.093E-06	6.004E-06	5.987E-06	6.029E-06	5.997E-06	5.965E-06	5.949E-06	5.901E-06	5.875E-06	5.918E-06	2.933E-06
NO2	R9b_5028	2	2.770E-06	2.770E-06	2.762E-06	2.762E-06	2.801E-06	2.801E-06	2.793E-06	5.764E-06	5.731E-06	5.708E-06	5.763E-06	5.710E-06	5.729E-06	5.729E-06	5.729E-06	5.710E-06	5.671E-06	5.708E-06	5.672E-06	5.636E-06	5.680E-06	5.638E-06	5.572E-06	2.762E-06
NO2	R9b_5028	3	2.730E-06	2.770E-06	2.762E-06	2.770E-06	2.770E-06	2.770E-06	2.778E-06	5.756E-06	5.727E-06	5.671E-06	5.729E-06	5.748E-06	5.729E-06	5.656E-06	5.656E-06	5.635E-06	5.690E-06	5.632E-06	5.593E-06	5.672E-06	5.636E-06	5.574E-06	5.526E-06	2.739E-06
NO2	R9b_5028	4	2.595E-06	2.595E-06	2.595E-06	2.584E-06	2.584E-06	2.574E-06	2.595E-06	5.378E-06	5.244E-06	5.291E-06	5.361E-06	5.296E-06	5.296E-06	5.296E-06	5.321E-06	5.296E-06	5.361E-06	5.268E-06	5.316E-06	5.316E-06	5.250E-06	5.204E-06	5.138E-06	2.595E-06
NO2	R9b_5028	5	2.536E-06	2.525E-06	2.525E-06	2.525E-06	2.525E-06	2.525E-06	2.546E-06	5.281E-06	5.244E-06	5.197E-06	5.222E-06	5.246E-06	5.272E-06	5.272E-06	5.179E-06	5.126E-06	5.172E-06	5.122E-06	5.072E-06	5.174E-06	5.104E-06	5.058E-06	4.991E-06	2.473E-06
NO2	R9b_5028	6	2.365E-06	2.365E-06	2.339E-06	2.339E-06	2.339E-06	2.339E-06	2.378E-06	5.026E-06	4.887E-06	4.837E-06	4.897E-06	4.897E-06	4.956E-06	4.926E-06	4.926E-06	4.926E-06	4.897E-06	4.866E-06	4.915E-06	4.915E-06	4.803E-06	4.753E-06	4.685E-06	2.322E-06
NO2	R9b_5028	7	2.363E-06	2.363E-06	2.363E-06	2.363E-06	2.349E-06	2.349E-06	2.363E-06	4.919E-06	4.837E-06	4.926E-06	4.886E-06	4.917E-06	4.917E-06	4.917E-06	4.917E-06	4.886E-06	4.822E-06	4.926E-06	4.866E-06	4.837E-06	4.887E-06	4.865E-06	4.796E-06	2.377E-06
NO2	R9b_5028	8	2.335E-06	2.391E-06	2.378E-06	2.378E-06	2.378E-06	2.378E-06	2.417E-06	4.999E-06	4.866E-06	4.986E-06	4.949E-06	4.980E-06	4.949E-06	4.917E-06	4.917E-06	4.886E-06	4.956E-06	4.866E-06	4.777E-06	4.777E-06	4.859E-06	4.809E-06	4.740E-06	2.349E-06
NO2	R9b_5028	9	2.533E-06	2.579E-06	2.566E-06	2.579E-06	2.579E-06	2.579E-06	2.591E-06	5.476E-06	5.364E-06	5.337E-06	5.421E-06	5.374E-06	5.374E-06	5.374E-06	5.374E-06	5.314E-06	5.285E-06	5.365E-06	5.309E-06	5.281E-06	5.338E-06	5.288E-06	5.190E-06	2.572E-06
NO2	R9b_5028	10	2.703E-06	2.703E-06	2.740E-06	2.729E-06	2.718E-06	2.718E-06	2.718E-06	5.726E-06	5.595E-06	5.642E-06	5.620E-06	5.645E-06	5.670E-06	5.670E-06	5.603E-06	5.645E-06	5.595E-06	5.545E-06	5.496E-06	5.446E-06	5.525E-06	5.477E-06	5.430E-06	2.691E-06
NO2	R9b_5028	11	2.881E-06	2.929E-06	2.929E-06	2.929E-06	2.965E-06	2.965E-06	2.973E-06	6.204E-06	6.089E-06	6.072E-06	6.059E-06	6.097E-06	6.028E-06	6.028E-06	6.007E-06	5.945E-06	5.961E-06	5.904E-06	5.884E-06	5.865E-06	5.845E-06	5.882E-06	5.832E-06	2.881E-06
NO2	R9b_5028	12	3.010E-06	3.010E-06	3.042E-06	3.048E-06	3.055E-06	3.061E-06	3.061E-06	6.391E-06	6.266E-06	6.235E-06	6.266E-06	6.221E-06	6.237E-06	6.253E-06	6.209E-06	6.174E-06	6.189E-06	6.141E-06	6.109E-06	6.161E-06	6.116E-06	6.141E-06	6.074E-06	3.010E-06
NO2	R9c_5027	1	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.891E-08	7.909E-08	7.831E-08	7.851E-08	7.851E-08	7.851E-08	7.793E-08	7.793E-08	7.772E-08	7.751E-08	7.730E-08	7.710E-08	7.647E-08	5.034E-08	0.000E+00	0.000E+00
NO2	R9c_5027	2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.378E-08	7.422E-08	7.444E-08	7.467E-08	7.343E-08	7.343E-08	7.414E-08	7.414E-08	7.390E-08	7.343E-08	7.319E-08	7.319E-08	7.356E-08	4.827E-08	0.000E+00	0.000E+00
NO2	R9c_5027	3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.444E-08	7.343E-08	7.367E-08	7.367E-08	7.367E-08	7.390E-08	7.312E-08	7.312E-08	7.262E-08	7.236E-08	7.211E-08	7.186E-08	7.271E-08	4.771E-08	0.000E+00	0.000E+00
NO2	R9c_5027	4	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.811E-08	6.840E-08	6.868E-08	6.897E-08	6.925E-08	6.897E-08	6.833E-08	6.802E-08	6.771E-08	6.741E-08	6.840E-08	6.710E-08	6.754E-08	4.446E-08	0.000E+00	0.000E+00
NO2	R9c_5027	5	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.649E-08	6.680E-08	6.710E-08	6.741E-08	6.741E-08	6.741E-08	6.641E-08	6.608E-08	6.576E-08	6.544E-08	6.511E-08	6.649E-08	6.557E-08	4.316E-08	0.000E+00	0.000E+00
NO2	R9c_5027	6	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.334E-08	6.221E-08	6.257E-08	6.257E-08	6.257E-08	6.257E-08	6.147E-08	6.147E-08	6.147E-08	6.147E-08	6.294E-08	6.294E-08	6.184E-08	4.046E-08	0.000E+00	0.000E+00
NO2	R9c_5027	7	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.294E-08	6.147E-08	6.224E-08	6.224E-08	6.224E-08	6.224E-08	6.263E-08	6.263E-08	6.224E-08	6.224E-08	6.185E-08	6.185E-08	6.294E-08	4.143E-08	0.000E+00	0.000E+00
NO2	R9c_5027	8	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.294E-08	6.367E-08	6.263E-08	6.302E-08	6.263E-08	6.263E-08	6.263E-08	6.263E-08	6.224E-08	6.147E-08	6.107E-08	6.147E-08	6.257E-08	4.095E-08	0.000E+00	0.000E+00
NO2	R9c_5027	9	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.816E-08	6.885E-08	6.955E-08	6.955E-08	6.843E-08	6.843E-08	6.880E-08	6.843E-08	6.843E-08	6.807E-08	6.807E-08	6.807E-08	6.697E-08	4.487E-08	0.000E+00	0.000E+00
NO2	R9c_5027	10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.241E-08	7.167E-08	7.229E-08	7.259E-08	7.259E-08	7.259E-08	7.192E-08	7.160E-08	7.127E-08	7.095E-08	7.063E-08	7.030E-08	6.966E-08	4.678E-08	0.000E+00	0.000E+00
NO2	R9c_5027	11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.822E-08	7.867E-08	7.817E-08	7.840E-08	7.742E-08	7.742E-08	7.742E-08	7.692E-08	7.666E-08	7.616E-08	7.616E-08	7.590E-08	7.565E-08	4.979E-08	0.000E+00	0.000E+00
NO2	R9c_5027	12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.092E-08	8.092E-08	8.110E-08	8.046E-08	8.046E-08	8.066E-08	8.043E-08	8.021E-08	7.980E-08	7.938E-08	7.918E-08	7.896E-08	7.929E-08	5.206E-08	0.000E+00	0.000E+00

Appendix G1 - Detailed Composite Vehicle Emission Rates

Total Composite Vehicular Emission Rate (Internal Trucks) (For RSP and FSP Assessment)

EMFAC Calender Year:
2025

Notes:
(a) All internal trucks are assumed to be HGV9 (i.e. HGV9b in EMFAC model). As confirmed by CEDD, the model year of these internal trucks is 2011 or later. In the EMFAC model, all HGV9 populations are conservatively assumed to have a model year of 2011, with Euro IV standard.
(b) The vehicular running emission rates are taken from EMFAC-HK (v4.3) based on the 'Minimum Temperature', 'Minimum Relative Humidity' and 'Average Speed'.
(c) The data presented below are based on the minimum of temperature and relative humidity in all 8760 hours within the met. year, taken from the respective PATH Met Data. Please note that RSP and FSP emissions should not be affected by temperature and relative humidity.

Unit **Parameter**
g/m2/s Emission Rate for AERMOD

Pollutant	Road_Index	Month	0000-0100	0100-0200	0200-0300	0300-0400	0400-0500	0500-0600	0600-0700	0700-0800	0800-0900	0900-1000	1000-1100	1100-1200	1200-1300	1300-1400	1400-1500	1500-1600	1600-1700	1700-1800	1800-1900	1900-2000	2000-2100	2100-2200	2200-2300	2300-0000
RSP	R11_5028	1-12	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	3.899E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.922E-06	3.899E-06	3.899E-06	1.578E-06
RSP	R11a_5028	1-12	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	5.476E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.499E-06	5.476E-06	5.476E-06	1.578E-06
RSP	R12_5028	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	0.000E+00
RSP	R1b_5029	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	0.000E+00	0.000E+00
RSP	R1b_5028	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	4.451E-08	0.000E+00	0.000E+00
RSP	R5_5027	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	2.584E-06	0.000E+00
RSP	R6_5028	1-12	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	1.578E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	2.956E-06	1.578E-06
RSP	R7_5028	1-12	3.155E-06	3.155E-06	3.155E-06	3.155E-06	3.155E-06	3.155E-06	3.155E-06	3.219E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.219E-06	3.155E-06
RSP	R8_5028	1-12	3.155E-06	3.155E-06	3.155E-06	3.155E-06	3.155E-06	3.155E-06	3.155E-06	3.219E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.263E-06	3.219E-06	3.155E-06
RSP	R9a_5028	1-12	4.117E-06	4.117E-06	4.117E-06	4.117E-06	4.117E-06	4.117E-06	4.117E-06	5.431E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.476E-06	5.431E-06	4.117E-06
RSP	R9b_5027	1-12	2.539E-06	2.539E-06	2.539E-06	2.539E-06	2.539E-06	2.539E-06	2.539E-06	5.123E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.168E-06	5.123E-06	2.539E-06
RSP	R9b_5028	1-12	2.539E-06	2.539E-06	2.539E-06	2.539E-06	2.539E-06	2.539E-06	2.539E-06	5.123E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.191E-06	5.168E-06	5.123E-06	2.539E-06
RSP	R9c_5027	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	6.763E-08	4.451E-08	0.000E+00	0.000E+00
FSP	R11_5028	1-12	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	3.587E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.608E-06	3.587E-06	3.587E-06	1.451E-06
FSP	R11a_5028	1-12	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	5.038E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.059E-06	5.038E-06	5.038E-06	1.451E-06
FSP	R12_5028	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	0.000E+00
FSP	R1b_5029	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	0.000E+00	0.000E+00
FSP	R1b_5028	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	4.095E-08	0.000E+00	0.000E+00
FSP	R5_5027	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	2.377E-06	0.000E+00
FSP	R6_5028	1-12	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	1.451E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	2.719E-06	1.451E-06
FSP	R7_5028	1-12	2.903E-06	2.903E-06	2.903E-06	2.903E-06	2.903E-06	2.903E-06	2.903E-06	2.961E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	2.961E-06	2.903E-06
FSP	R8_5028	1-12	2.903E-06	2.903E-06	2.903E-06	2.903E-06	2.903E-06	2.903E-06	2.903E-06	2.961E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	3.002E-06	2.961E-06	2.903E-06
FSP	R9a_5028	1-12	3.787E-06	3.787E-06	3.787E-06	3.787E-06	3.787E-06	3.787E-06	3.787E-06	4.996E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	5.037E-06	4.996E-06	3.787E-06
FSP	R9b_5027	1-12	2.336E-06	2.336E-06	2.336E-06	2.336E-06	2.336E-06	2.336E-06	2.336E-06	4.713E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.754E-06	4.713E-06	2.336E-06
FSP	R9b_5028	1-12	2.336E-06	2.336E-06	2.336E-06	2.336E-06	2.336E-06	2.336E-06	2.336E-06	4.713E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.775E-06	4.754E-06	4.713E-06	2.336E-06
FSP	R9c_5027	1-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	6.222E-08	4.095E-08	0.000E+00	0.000E+00

Appendix G2 - Summary of Temperature and Relative Humidity adopted in the Assessment

Summary of Temperature and Relative Humidity

Note: *Met Data is generated together with the AERMOD-ready meteorological data, from the EPD's Smart Air Modelling Platform (SAMP)*

Grid (I,J)	Hour	Monthly Minimum																					
		January		February		March		April		May		June		July		August		September		October		November		December	
		Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)
50,27	0000-0100	14	45	16	69	18	76	21	80	22	73	27	78	27	78	27	72	25	39	23	44	18	50	14	34
50,27	0100-0200	13	47	17	66	18	77	21	81	22	77	27	78	28	76	27	78	25	42	23	55	18	51	13	36
50,27	0200-0300	13	47	16	64	18	77	21	78	21	75	26	82	28	76	26	76	25	44	22	58	17	50	12	34
50,27	0300-0400	13	45	16	64	17	69	21	75	21	75	26	83	28	73	27	78	24	45	22	55	16	50	12	33
50,27	0400-0500	12	45	16	60	17	67	21	78	21	73	25	83	27	74	27	77	24	46	22	57	16	51	12	34
50,27	0500-0600	12	47	16	63	17	67	21	78	21	71	24	81	27	74	26	77	24	47	21	58	16	51	11	34
50,27	0600-0700	12	50	16	70	18	65	21	78	21	70	25	70	27	78	26	76	23	47	21	53	16	50	11	34
50,27	0700-0800	12	53	16	70	18	56	20	83	21	65	24	69	27	73	27	70	24	45	21	50	16	48	11	37
50,27	0800-0900	13	54	16	72	18	55	20	79	22	68	25	67	27	70	27	69	24	42	22	49	17	51	12	37
50,27	0900-1000	14	51	16	69	18	55	20	80	22	64	25	71	28	73	28	62	25	38	23	47	18	51	13	35
50,27	1000-1100	14	48	17	67	19	55	20	76	22	66	25	72	28	71	27	61	26	37	23	48	18	47	14	33
50,27	1100-1200	15	44	18	67	19	59	20	74	22	68	25	72	26	72	27	60	26	37	23	49	19	45	15	32
50,27	1200-1300	16	43	18	66	19	60	20	76	22	69	26	68	27	73	26	63	26	34	24	53	19	44	15	30
50,27	1300-1400	16	45	18	68	18	66	20	76	22	70	27	66	28	71	26	65	27	35	24	52	19	45	16	29
50,27	1400-1500	17	48	19	62	18	61	20	72	22	67	27	64	27	69	27	65	27	33	24	51	20	43	16	29
50,27	1500-1600	17	47	19	60	18	65	20	74	22	66	27	66	26	69	26	64	27	32	24	53	20	44	16	28
50,27	1600-1700	16	50	19	66	18	68	21	75	22	70	27	69	26	70	27	65	27	32	24	56	20	43	16	31
50,27	1700-1800	16	52	20	70	19	69	21	79	22	71	27	59	28	70	27	67	27	32	25	57	20	49	16	30
50,27	1800-1900	16	54	20	73	19	71	21	78	22	69	27	67	27	73	27	70	27	29	25	59	20	40	17	28
50,27	1900-2000	16	56	18	75	19	75	21	77	22	77	27	72	27	71	28	69	27	32	25	60	20	39	14	28
50,27	2000-2100	16	58	18	79	18	78	21	82	22	77	26	77	27	73	27	71	27	34	25	61	20	42	14	30
50,27	2100-2200	16	53	18	79	19	77	21	81	22	78	26	76	27	74	28	73	27	34	25	61	19	44	14	30
50,27	2200-2300	16	46	17	79	18	77	21	81	22	76	26	78	27	74	26	72	26	35	24	41	18	44	15	32
50,27	2300-0000	15	45	16	80	18	76	21	82	22	74	26	79	27	76	27	73	26	37	23	43	18	48	14	33
50,28	0000-0100	13	41	16	65	18	74	21	78	22	70	26	74	27	76	26	70	25	35	23	40	18	46	13	30
50,28	0100-0200	13	43	16	62	18	75	21	78	21	74	26	77	27	74	27	76	25	38	22	51	17	47	13	31
50,28	0200-0300	12	43	16	61	17	74	21	73	21	73	26	81	27	73	26	76	24	39	22	55	17	45	12	29
50,28	0300-0400	12	41	16	60	17	68	21	73	21	72	26	81	28	71	26	76	24	40	22	56	16	46	12	28
50,28	0400-0500	12	41	16	57	17	65	21	76	21	71	25	81	27	72	26	75	23	42	21	56	16	47	11	29
50,28	0500-0600	12	44	16	60	17	66	21	76	21	69	24	79	27	73	26	76	23	43	21	56	16	48	11	28
50,28	0600-0700	12	46	16	67	17	61	21	75	21	66	24	67	27	76	26	74	23	43	21	50	16	47	11	29
50,28	0700-0800	12	49	16	66	18	50	20	77	21	60	24	66	27	69	27	66	24	39	21	46	16	44	11	31
50,28	0800-0900	13	49	16	66	18	48	20	72	22	62	25	61	27	66	27	62	25	36	22	44	17	45	12	31
50,28	0900-1000	14	45	16	62	18	47	20	70	22	56	25	59	27	66	28	55	26	32	23	41	18	44	14	29
50,28	1000-1100	14	41	17	60	19	46	20	65	22	58	25	63	27	61	27	51	26	30	24	41	19	42	15	27
50,28	1100-1200	15	37	18	59	19	50	20	61	23	59	26	59	25	59	28	49	27	29	24	42	20	38	15	26
50,28	1200-1300	16	35	19	56	19	51	21	63	23	60	27	53	27	63	27	51	27	27	24	45	20	37	15	24
50,28	1300-1400	16	34	19	54	18	55	21	63	22	59	27	51	28	61	26	53	27	28	25	45	20	37	16	22
50,28	1400-1500	17	39	20	55	18	55	21	63	22	60	27	54	27	61	27	51	28	26	25	45	20	36	16	23
50,28	1500-1600	17	41	20	54	18	57	21	66	22	60	27	58	26	62	26	57	27	26	25	48	20	38	16	24
50,28	1600-1700	16	43	20	60	18	61	21	67	22	63	26	60	26	65	27	59	27	26	25	50	20	38	16	25
50,28	1700-1800	16	48	20	66	19	65	21	73	22	66	27	54	28	65	27	62	27	27	24	51	19	44	16	25
50,28	1800-1900	16	51	20	70	19	68	21	75	22	67	27	65	27	69	27	66	27	25	24	54	19	36	17	24
50,28	1900-2000	16	53	18	73	18	73	21	73	22	74	27	70	27	68	28	66	27	28	24	57	20	36	14	23
50,28	2000-2100	16	54	18	77	18	74	21	78	22	75	26	74	27	70	27	68	27	28	24	59	19	38	14	26
50,28	2100-2200	16	50	17	77	18	74	21	77	22	75	26	75	27	71	28	70	26	30	24	59	19	40	14	25
50,28	2200-2300	16	43	17	77	18	74	21	78	22	73	26	76	27	71	25	66	26	30	24	36	18	41	14	27
50,28	2300-0000	15	41	16	78	18	71	21	81	22	71	26	77	27	73	27	71	26	33	23	39	18	44	14	28
50,29	0000-0100	13	41	16	65	17	74	21	78	22	70	26	73	26	76	27	71	25	36	23	40	17	46	13	30
50,29	0100-0200	13	42	16	63	17	75	21	77	21	74	26	78	27	74	27	75	25	38	22	52	17	47	12	31
50,29	0200-0300	12	43	16	61	17	75	21	72	21	73	26	82	27	73	25	77	24	39	22	55	17	45	12	30
50,29	0300-0400	12	41	16	60	17	69	21	73	20	72	25	82	27	71	26	77	24	41	21	56	16	45	11	29
50,29	0400-0500	12	41	16	58	17	66	21	76	21	72	25	81	27	72	26	75	23	42	21	56	16	46	11	29
50,29	0500-0600	12	43	16	60	17	67	20	77	21	70	24	78	27	73	26	75	23	43	21	57	15	48	11	29
50,29	0600-0700	12	46	16	66	17	60	20	75	21	67	24	67	27	77	26	75	23	43	20	51	15	47	10	29
50,29	0700-0800	12	49	16	67	18	50	20	76	21	60	24	66	27	70	26	67	24	40	21	47	16	44	11	30
50,29	0800-0900	13	49	16	66	18	48	20	71	22	61	25	61	27	66	27	62	24	36	22	44	17	44	12	30
50,29	0900-1000	14	46	16	62	18	47	20	68	22	55	25	59	27	64	28	54	26	32	23	41	18	43	13	29
50,29	1000-1100	14	41	17	61	19	46	20	63	22	58	25	62	27	59	27	51	26	30	24	41	19	42	14	27
50,29	1100-1200	15	37	19	59	19	50	20	60	22	59	26	57	25	55	28	48	27	30	24	41	20	38	15	25
50,29	1200-1300	16	35	19	56	19	51	20	61	23	59	27	51	27	59	27	48	27	27	24	44	20	37	15	23
50,29	1300-1400	16	33	19	54	18	55	21	61	22	59	28	49	28	58	26	50	27	28	25	43	20	37	16	22
50,29	1400-1500	17	37	20	55	18	54	21	62	22	60	27	52	27	59	27	47	28	26	25	43	20	36	16	23
50,29	1500-1600	17	41	19	54	18	57	21	64	22	59	28	57	26	61	26	56	27	26	25	47	20	38	16	23
50,29	1600-1700	16	43	19	59	18	60	21	65	22	63	26	57	26	65	27	59	27	27	25	48	20	37	16	25
50,29	1700-1800	16	48	20	66	19	63	21	72	22	66	27	54	28	65	27	62	27	26	24	49	19	44	16	25
50,29	1800-1900	16	51	20	70	18	68	21	74	22	67	27	64	27	68	27	66	27	25	24	53	19	36	17	24
50,29	1900-2000	16	53	17	73	18	73	21	72	22	74	27	69	27	68	28	66	27	28	24	56	19	36	14	23
50,29	2000-2100	16	54	17	77	18	74	21	76	22	76	26	74	27	70	27	68	26	28	24	59	19	39	14	26
50,29	2100-2200	15	50	17	77	18	74	21	76	22	75	26	75	27	71	27	70	26	30	24	59	19	40	14	26
50,29	2200-2300	16	43	17	77	18	73	21	78	22	73	26	76	26	71	25	65	26	30	23	37	18	41	14	28
50,29	2300-0000	15	41	16	78	18	71	21	80	22	71	26	77	26	74	26	72	25	33	23	39	17	44	14	28

Appendix G2 - Summary of Temperature and Relative Humidity adopted in the Assessment

Summary of Temperature and Relative Humidity

Note: *Met Data is generated together with the AERMOD-ready meteorological data, from the EPD's Smart Air Modelling Platform (SAMP)*

Grid (I,J)	Hour	Monthly Average																					
		January		February		March		April		May		June		July		August		September		October		November		December	
		Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)	Temp. (ºC)	RH. (%)
50,27	0000-0100	19	81	21	89	22	88	24	91	25	92	29	89	29	84	29	86	28	76	26	72	22	72	18	74
50,27	0100-0200	19	80	21	89	22	89	24	91	25	92	29	89	29	84	29	87	28	77	26	72	22	70	18	74
50,27	0200-0300	19	81	21	90	21	90	24	92	25	92	28	91	29	84	28	88	27	78	26	73	21	71	18	74
50,27	0300-0400	18	81	21	90	21	89	24	92	25	92	28	91	29	84	28	88	27	78	25	74	21	70	17	73
50,27	0400-0500	18	80	21	90	21	89	24	92	25	92	28	91	29	85	28	88	27	78	25	74	21	71	17	71
50,27	0500-0600	18	80	20	90	21	89	24	92	25	92	28	91	29	85	28	88	27	78	25	75	20	71	17	71
50,27	0600-0700	18	81	20	91	21	89	24	92	25	91	28	90	29	85	28	87	27	78	25	75	20	70	17	71
50,27	0700-0800	18	80	20	90	21	87	24	91	25	90	28	89	29	84	29	85	27	76	25	74	20	69	17	70
50,27	0800-0900	18	79	21	88	21	85	25	88	26	88	28	87	29	83	29	83	28	73	25	73	21	68	18	68
50,27	0900-1000	18	78	21	86	22	84	25	87	26	87	29	85	30	82	29	81	28	71	26	71	21	66	18	68
50,27	1000-1100	19	77	21	85	22	83	25	86	26	86	29	84	30	80	30	79	28	69	26	69	22	64	18	67
50,27	1100-1200	19	76	21	84	22	83	25	85	26	85	29	84	30	80	30	78	28	69	26	68	22	63	19	66
50,27	1200-1300	19	76	22	84	22	83	25	84	26	85	29	84	30	80	30	79	29	68	26	68	23	63	19	66
50,27	1300-1400	19	76	22	84	22	82	25	85	26	85	29	84	30	80	30	79	29	68	26	68	23	63	19	65
50,27	1400-1500	20	74	22	81	23	80	26	82	27	83	30	82	30	79	30	79	29	67	27	66	23	63	20	62
50,27	1500-1600	20	74	22	81	23	80	26	83	27	84	30	82	30	79	30	79	29	68	27	67	23	65	20	63
50,27	1600-1700	20	75	22	82	23	82	26	84	27	85	30	82	30	80	30	80	29	68	27	68	23	66	20	65
50,27	1700-1800	20	76	22	84	23	83	26	85	27	86	30	82	30	80	30	82	29	69	27	69	23	68	20	67
50,27	1800-1900	20	77	22	85	23	84	25	87	27	87	29	83	30	81	30	83	29	69	27	70	23	68	20	68
50,27	1900-2000	20	78	22	85	23	85	26	86	26	88	29	83	30	81	30	82	29	69	27	71	23	69	20	69
50,27	2000-2100	20	81	21	89	22	87	25	90	26	91	29	86	29	83	29	84	29	72	27	73	23	70	19	72
50,27	2100-2200	20	81	21	90	22	88	25	90	26	91	29	87	29	83	29	85	28	73	26	73	23	70	19	73
50,27	2200-2300	19	80	21	90	22	88	25	90	26	92	29	87	29	84	29	85	28	74	26	73	22	70	19	73
50,27	2300-0000	19	80	21	90	22	88	25	91	26	92	29	88	29	84	29	86	28	74	26	73	22	71	18	73
50,28	0000-0100	19	79	21	88	22	87	24	90	25	90	28	88	29	83	29	85	28	75	26	70	22	70	18	72
50,28	0100-0200	19	79	21	88	21	88	24	90	25	91	28	88	29	83	28	86	27	76	26	70	21	69	18	72
50,28	0200-0300	18	79	21	89	21	89	24	90	25	91	28	90	29	83	28	87	27	77	25	71	21	69	17	72
50,28	0300-0400	18	79	21	89	21	88	24	91	25	91	28	90	29	83	28	87	27	76	25	72	21	69	17	71
50,28	0400-0500	18	79	20	90	21	88	24	91	25	91	28	90	29	84	28	87	27	76	25	73	20	69	17	70
50,28	0500-0600	18	79	20	90	21	88	24	92	25	91	28	90	29	84	28	87	27	76	25	73	20	69	17	69
50,28	0600-0700	18	79	20	91	21	87	24	90	25	89	28	87	29	83	28	84	27	75	25	73	20	68	17	69
50,28	0700-0800	18	77	21	88	22	83	25	86	26	85	28	85	30	79	29	81	27	72	25	70	20	66	17	66
50,28	0800-0900	18	75	21	84	22	79	26	82	26	82	29	81	30	78	30	77	28	68	26	67	21	63	18	64
50,28	0900-1000	19	72	22	80	23	77	26	80	27	79	30	78	30	75	30	73	29	65	26	65	22	60	19	62
50,28	1000-1100	20	70	22	77	23	74	26	77	27	78	30	76	31	72	31	70	29	62	27	62	23	57	19	60
50,28	1100-1200	20	69	23	75	23	73	27	75	27	77	30	76	31	71	31	69	30	60	27	61	23	55	20	59
50,28	1200-1300	20	67	23	74	23	74	27	75	27	76	30	74	31	71	31	70	30	60	27	60	24	55	20	58
50,28	1300-1400	20	67	23	74	24	73	27	75	27	76	30	75	31	71	31	71	30	60	27	60	24	55	20	57
50,28	1400-1500	21	68	23	74	24	73	27	74	28	75	30	75	31	71	31	71	30	60	28	59	24	56	21	56
50,28	1500-1600	21	69	23	75	24	74	27	75	28	77	30	75	31	72	31	72	30	62	27	61	24	59	21	58
50,28	1600-1700	20	71	23	77	23	76	26	77	27	80	30	76	31	74	30	74	30	63	27	63	23	62	20	61
50,28	1700-1800	20	73	22	80	23	79	26	81	27	82	30	77	30	75	30	77	29	64	27	65	23	65	20	64
50,28	1800-1900	20	75	22	82	23	81	25	84	27	84	29	80	30	77	30	80	29	66	27	67	23	66	20	66
50,28	1900-2000	20	76	22	84	22	82	25	84	26	85	29	80	30	78	30	80	29	67	27	69	23	67	19	67
50,28	2000-2100	20	79	21	87	22	84	25	87	26	88	29	84	29	81	29	82	28	69	26	70	23	68	19	70
50,28	2100-2200	20	79	21	88	22	86	25	88	26	89	29	85	29	81	29	83	28	70	26	71	22	69	18	71
50,28	2200-2300	19	78	21	89	22	86	25	89	26	90	29	86	29	82	29	84	28	72	26	71	22	69	18	72
50,28	2300-0000	19	78	21	89	22	86	24	90	26	90	29	86	29	82	29	84	28	72	26	71	22	70	18	72
50,29	0000-0100	19	79	21	89	21	87	24	90	25	90	28	88	29	83	28	85	27	75	26	70	21	71	18	73
50,29	0100-0200	18	79	21	89	21	88	24	90	25	91	28	89	29	83	28	86	27	76	25	71	21	69	17	73
50,29	0200-0300	18	79	21	89	21	89	24	90	25	91	28	90	29	83	28	87	27	77	25	72	21	69	17	72
50,29	0300-0400	18	79	20	89	21	88	24	91	25	91	28	90	29	83	28	87	27	77	25	73	20	69	17	71
50,29	0400-0500	18	79	20	90	21	88	24	91	25	91	28	90	29	84	28	87	27	77	25	73	20	69	17	70
50,29	0500-0600	18	79	20	90	21	88	24	92	25	91	28	90	28	85	28	87	26	77	24	74	20	69	17	70
50,29	0600-0700	17	79	20	91	21	87	24	90	25	89	28	87	29	83	28	85	27	76	24	73	20	69	16	69
50,29	0700-0800	18	78	21	88	21	83	25	86	26	85	28	84	29	79	29	81	27	72	25	70	20	66	17	67
50,29	0800-0900	18	75	21	84	22	79	26	81	26	82	29	81	30	77	29	77	28	68	26	67	21	63	18	64
50,29	0900-1000	19	73	22	80	23	76	26	79	27	79	30	77	30	74	30	73	29	64	26	65	22	60	18	62
50,29	1000-1100	19	70	22	77	23	74	27	75	27	77	30	76	31	71	31	70	29	62	27	62	23	57	19	60
50,29	1100-1200	20	69	23	75	23	73	27	74	27	76	30	74	31	70	31	68	30	60	27	60	23	55	19	59
50,29	1200-1300	20	67	23	74	23	73	27	73	27	76	30	73	31	69	31	69	30	59	27	60	23	55	20	58
50,29	1300-1400	20	67	23	73	24	72	27	73	27	76	30	73	31	70	31	70	30	60	27	60	24	55	20	57
50,29	1400-1500	21	68	23	73	24	72	27	73	28	75	31	74	31	70	31	70	30	60	27	59	24	56	21	56
50,29	1500-1600	21	69	23	74	24	73	27	74	28	76	30	74	31	71	31	72	30	61	27	60	24	59	21	58
50,29	1600-1700	20	71	23	76	23	76	26	77	27	79	30	75	31	73	30	74	30	62	27	63	23	62	20	60
50,29	1700-1800	20	73	22	80	23	78	26	80	27	82	30	77	30	75	30	77	29	64	27	65	23	65	20	64
50,29	1800-1900	20	75	22	82	23	81	25	83	27	84	29	80	30	77	30	79	29	66	27	67	23	66	20	66
50,29	1900-2000	20	76	22	84	22	82	25	84	26	85	29	80	30	78	30	80	29	67	27	69	23	67	19	67
50,29	2000-2100	20	79	21	87	22	84	25	87	26	88	29	84	29	81	29	82	28	69	26	70	22	68	19	70
50,29	2100-2200	19	79	21	88	22	86	25	88	26	89	29	85	29	82	29	83	28	71	26	71	22	69	18	71
50,29	2200-2300	19	78	21	89	22	86	25	89	26	90	28	86	29	82	29	84	28	72	26	71	22	69	18	72
50,29	2300-0000	19	78	21	90	22	87	24	90	25	90	28	86	29	83	29	84	28	73	26	71	22	71	18	72

Appendix G3 - Road Configurations for AERMOD model

Road Link Input Details (External Vehicles)

								Starting Point		Ending Point								
No.of Road Sections	Road Index	Road Section	Road Section ID	Road Name	Road Classification	Road Type	Start Emission Included?	X1	Y1	X2	Y2	Average Width	Average Elevation	Average Road Height	Average Vehicle Height on the Road	Top of Plume Height	Release Height	Initial Vertical Dimention of Plume	Model Width
(#)	(Index)	(#)	(ID)	(Name)	(Class)	(Type)	(Y/N)	(HK1980)	(HK1980)	(HK1980)	(HK1980)	(m)	(mPD)	(m)	(m)	(m)	(m)	(Szint)	(m)
1	TKO15	1	TKO15_1	Chun Wang Street	LD	at-grade	Y	846111.65	815913.59	846178.82	815885.54	18.87	5.97	0.00	2.89	4.90	2.45	2.28	24.86
2	TKO16	1	TKO16_1	Chun Yat Street	LD	at-grade	Y	845814.61	815884.15	845967.10	815694.88	11.18	11.15	0.00	1.88	3.20	1.60	1.49	17.18
3	TKO16	2	TKO16_2	Chun Yat Street	LD	at-grade	Y	845967.10	815694.88	846088.39	815662.54	12.54	5.36	0.00	1.88	3.20	1.60	1.49	18.54
4	TKO16	3	TKO16_3	Chun Yat Street	LD	at-grade	Y	846088.39	815662.54	846178.82	815885.54	16.31	5.67	0.00	1.88	3.20	1.60	1.49	22.30
5	TKO17	1	TKO17_1	Chun Choi Street	LD	at-grade	Y	846178.82	815885.54	846197.38	815926.99	16.17	5.86	0.00	2.54	4.32	2.16	2.01	22.16
6	TKO19	1	TKO19_1	Wan Po Road	LD	at-grade	Y	846317.16	815822.98	846356.50	815919.25	10.08	9.39	0.00	3.21	5.45	2.73	2.54	16.07
7	TKO20	1	TKO20_1	Chun Wang Street	LD	at-grade	Y	846178.82	815885.54	846317.16	815822.98	14.32	7.35	0.00	2.09	3.55	1.78	1.65	20.31
8	TKO21	1	TKO21_1	Wan Po Road	LD	at-grade	Y	846317.16	815822.98	846255.84	815649.42	9.39	7.24	0.00	3.47	5.91	2.95	2.75	15.39
9	TKO21	2	TKO21_2	Wan Po Road	LD	at-grade	Y	846255.84	815649.42	846249.74	815413.44	9.23	6.09	0.00	3.47	5.91	2.95	2.75	15.23
10	TKO22	a	TKO22a	Roads to SENTX	Internal	at-grade	N	846249.74	815413.44	846237.20	815252.04	7.00	5.40	0.00	3.74	6.35	3.18	2.96	13.00
11	TKO22	b	TKO22b	Roads to SENTX	Internal	at-grade	N	846237.20	815252.04	846243.02	815115.27	7.00	5.65	0.00	3.74	6.35	3.18	2.96	13.00
12	TKO22	c	TKO22c	Roads to SENTX	Internal	at-grade	N	846243.02	815115.27	846308.99	815043.70	7.00	8.15	0.00	3.74	6.35	3.18	2.96	13.00
13	TKO22	d	TKO22d	Roads to SENTX	Internal	at-grade	N	846308.99	815043.70	846325.89	814788.35	7.00	11.10	0.00	3.74	6.35	3.18	2.96	13.00
14	TKO22	e	TKO22e	Roads to SENTX	Internal	at-grade	N	846325.89	814788.35	846560.66	814827.46	7.00	12.00	0.00	3.74	6.35	3.18	2.96	13.00
15	TKO22	f	TKO22f	Roads to SENTX	Internal	at-grade	N	846560.66	814827.46	846442.47	815024.44	7.00	14.50	0.00	3.74	6.35	3.18	2.96	13.00
16	TKO22	g	TKO22g	Roads to SENTX	Internal	at-grade	N	846442.47	815024.44	846514.18	815251.61	7.00	19.50	0.00	3.74	6.35	3.18	2.96	13.00
17	TKO22	h	TKO22h	Roads to SENTX	Internal	at-grade	N	846514.18	815251.61	846334.81	815361.92	7.00	24.50	0.00	3.74	6.35	3.18	2.96	13.00
18	TKO23	a	TKO23a	Roads to Proposed CBP	Internal	at-grade	N	846249.74	815413.44	846024.65	815391.94	7.00	5.35	0.00	3.89	6.61	3.31	3.08	13.00
19	TKO23	b	TKO23b	Roads to Proposed CBP	Internal	at-grade	N	846024.65	815391.94	845968.21	815358.43	7.00	5.35	0.00	3.89	6.61	3.31	3.08	13.00
20	TKO23	c	TKO23c	Roads to Proposed CBP	Internal	at-grade	N	845968.21	815358.43	845925.37	815252.53	7.00	5.40	0.00	3.89	6.61	3.31	3.08	13.00
21	TKO23	d	TKO23d	Roads to Proposed CBP	Internal	at-grade	N	845925.37	815252.53	845896.15	815182.79	7.00	5.50	0.00	3.89	6.61	3.31	3.08	13.00
22	TKO23	e	TKO23e	Roads to Proposed CBP	Internal	at-grade	N	845896.15	815182.79	845845.96	815150.11	7.00	5.60	0.00	3.89	6.61	3.31	3.08	13.00
23	TKO23	f	TKO23f	Roads to Proposed CBP	Internal	at-grade	N	845845.96	815150.11	845682.17	815147.77	7.00	5.55	0.00	3.89	6.61	3.31	3.08	13.00
24	TKO23	g	TKO23g	Roads to Proposed CBP	Internal	at-grade	N	845682.17	815147.77	845615.91	815128.46	7.00	5.50	0.00	3.89	6.61	3.31	3.08	13.00
25	TKO23	h	TKO23h	Roads to Proposed CBP	Internal	at-grade	N	845615.91	815128.46	845549.07	815099.70	7.00	5.45	0.00	3.89	6.61	3.31	3.08	13.00
26	R1a	1	R1a_5029	TKOFB Internal Road	Internal	at-grade	N	846034.95	815392.84	846249.74	815413.44	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
27	R1b	1	R1b_5029	TKOFB Internal Road	Internal	at-grade	N	845978.09	815252.45	846034.95	815392.84	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
28	R1b	2	R1b_5028	TKOFB Internal Road	Internal	at-grade	N	845944.10	815168.54	845978.09	815252.45	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
29	R2a	1	R2a_5029	TKOFB Internal Road	Internal	at-grade	N	846249.74	815413.44	846237.19	815252.04	8.00	5.40	0.00	3.74	6.35	3.18	2.96	14.00
30	R2b	1	R2b_5028	TKOFB Internal Road	Internal	at-grade	N	846237.19	815252.04	846243.02	815115.27	8.00	5.65	0.00	3.74	6.35	3.18	2.96	14.00
31	R2c	1	R2c_5028	TKOFB Internal Road	Internal	at-grade	N	846243.02	815115.27	846262.59	814875.48	8.00	5.55	0.00	3.74	6.35	3.18	2.96	14.00
32	R2d	1	R2d_5028	TKOFB Internal Road	Internal	at-grade	N	846262.59	814875.48	846305.21	814658.54	8.00	5.00	0.00	3.74	6.35	3.18	2.96	14.00
33	R2e	1	R2e_5028	TKOFB Internal Road	Internal	at-grade	N	846305.21	814658.54	846395.81	814423.08	8.00	5.00	0.00	3.74	6.35	3.18	2.96	14.00
34	R2f	1	R2f_5028	TKOFB Internal Road	Internal	at-grade	N	846395.81	814423.08	846463.80	814236.18	8.00	5.00	0.00	3.74	6.35	3.18	2.96	14.00
35	R2f	2	R2f_5027	TKOFB Internal Road	Internal	at-grade	N	846463.80	814236.18	846547.27	814006.76	8.00	5.00	0.00	3.74	6.35	3.18	2.96	14.00
36	R3	1	R3_5027	TKOFB Internal Road	Internal	at-grade	N	846342.29	814059.88	846547.27	814006.76	8.00	5.00	0.00	3.74	6.35	3.18	2.96	14.00
37	R4	1	R4_5027	TKOFB Internal Road	Internal	at-grade	N	846437.86	814081.69	846342.29	814059.88	8.00	7.50	0.00	3.74	6.35	3.18	2.96	14.00
38	CVEH14_1	1	CVEH14_1	Proposed CBP Internal Road	Internal	at-grade	Y	845585.92	815110.14	845593.68	815091.16	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
39	CVEH14_2	1	CVEH14_2	Proposed CBP Internal Road	Internal	at-grade	Y	845593.67	815091.18	845603.37	815067.59	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
40	CVEH14_3	1	CVEH14_3	Proposed CBP Internal Road	Internal	at-grade	Y	845603.37	815067.59	845598.39	815054.83	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
41	CVEH14_4	1	CVEH14_4	Proposed CBP Internal Road	Internal	at-grade	Y	845598.39	815054.83	845568.35	815042.56	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
42	CVEH14_5	1	CVEH14_5	Proposed CBP Internal Road	Internal	at-grade	Y	845568.35	815042.56	845552.68	815048.04	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
43	CVEH14_6	1	CVEH14_6	Proposed CBP Internal Road	Internal	at-grade	Y	845552.68	815048.04	845552.95	815062.15	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
44	CVEH14_7	1	CVEH14_7	Proposed CBP Internal Road	Internal	at-grade	Y	845552.95	815062.15	845562.58	815052.36	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
45	CVEH14_8	1	CVEH14_8	Proposed CBP Internal Road	Internal	at-grade	Y	845552.95	815062.15	845554.63	815093.25	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
46	CVEH15_1	1	CVEH15_1	Proposed CBP Internal Road	Internal	at-grade	Y	845585.88	815110.23	845590.75	815098.17	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
47	CVEH15_2	1	CVEH15_2	Proposed CBP Internal Road	Internal	at-grade	Y	845590.75	815098.17	845582.93	815088.71	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
48	CVEH15_3	1	CVEH15_3	Proposed CBP Internal Road	Internal	at-grade	Y	845582.93	815088.71	845562.46	815080.46	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
49	CVEH15_4	1	CVEH15_4	Proposed CBP Internal Road	Internal	at-grade	Y	845562.46	815080.46	845553.99	815071.09	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
50	CVEH15_5	1	CVEH15_5	Proposed CBP Internal Road	Internal	at-grade	Y	845553.99	815071.09	845553.04	815048.04	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
51	CVEH15_6	1	CVEH15_6	Proposed CBP Internal Road	Internal	at-grade	Y	845553.04	815048.04	845568.32	815042.64	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
52	CVEH15_7	1	CVEH15_7	Proposed CBP Internal Road	Internal	at-grade	Y	845568.32	815042.64	845584.80	815055.12	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
53	CVEH15_8	1	CVEH15_8	Proposed CBP Internal Road	Internal	at-grade	Y	845584.80	815055.12	845580.57	815068.78	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
54	CVEH15_9	1	CVEH15_9	Proposed CBP Internal Road	Internal	at-grade	Y	845553.99	815071.09	845554.63	815093.25	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
55	CVEH16_1	1	CVEH16_1	Proposed CBP Internal Road	Internal	at-grade	Y	845554.63	815093.25	845557.17	815074.85	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00
56	CVEH16_2	1	CVEH16_2	Proposed CBP Internal Road	Internal	at-grade	Y	845557.17	815074.85	845565.97	815063.58	6.00	5.50	0.00	3.89	6.61	3.31	3.08	12.00

Appendix G3 - Road Configurations for AERMOD model

Road Link Input Details (Internal Trucks)

								Starting Point		Ending Point								
No.of Road Sections	Road Index	Road Section	Road Section ID	Road Name	Road Classification	Road Type	Start Emission Included ?	X1	Y1	X2	Y2	Average Width	Average Elevation	Average Road Height	Average Vehicle Height on the Road	Top of Plume Height	Release Height	Initial Vertical Dimention of Plume	Model Width
(#)	(Index)	(#)	(ID)	(Name)	(Class)	(Type)	(Y/N)	(HK1980)	(HK1980)	(HK1980)	(HK1980)	(m)	(mPD)	(m)	(m)	(m)	(m)	(Szint)	(m)
1	R1b	1	R1b_5029	TKOFB Internal Road	Internal	at-grade	N	845978.09	815252.45	846034.95	815392.84	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
2	R1b	2	R1b_5028	TKOFB Internal Road	Internal	at-grade	N	845944.10	815168.54	845978.09	815252.45	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
3	R5	1	R5_5027	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	846127.04	814128.11	846342.29	814059.88	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
4	R6	1	R6_5028	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	845916.45	814906.45	846012.25	814840.94	8.00	20.00	0.00	3.89	6.61	3.31	3.08	14.00
5	R7	1	R7_5028	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	845916.45	814906.45	845944.10	815168.54	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
6	R8	1	R8_5028	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	845781.83	814720.87	845916.45	814906.45	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
7	R9a	1	R9a_5028	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	845781.83	814720.87	845991.33	814361.14	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
8	R9b	1	R9b_5028	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	845991.33	814361.14	846063.73	814236.81	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
9	R9b	2	R9b_5027	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	846063.73	814236.81	846127.04	814128.11	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
10	R9c	1	R9c_5027	TKOFB Internal Road	Internal	at-grade	N	846127.04	814128.11	846184.90	814029.36	8.00	5.00	0.00	3.89	6.61	3.31	3.08	14.00
11	R11	1	R11_5028	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	846316.50	814538.74	846126.55	814646.21	8.00	30.00	0.00	3.89	6.61	3.31	3.08	14.00
12	R11a	1	R11a_5028	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	845991.33	814361.14	846316.50	814538.74	8.00	15.00	0.00	3.89	6.61	3.31	3.08	14.00
13	R12	1	R12_5028	TKOFB Internal Road	Internal	at-grade	Y(Hr08)	846316.50	814538.74	846314.93	814383.74	8.00	30.00	0.00	3.89	6.61	3.31	3.08	14.00

Note:

(a) No starting emission is applied to R1b and R9c as no internal trucks will be parked overnight and running on these roads during Hr08 (07:00-08:00).

Appendix G4 - Start Emission Profile (Vehicle Emissions from External Vehicles)

Trips extracted from EMFAC-HK (Year 2026)

Hong Kong SAR Trips-per-Day by Vehicle Class	Petrol	Diesel	LPG
01 - Private Cars (PC)	977228.4	17168.78	0
02 - Taxi	12.20524	0	73196.45
03 - Light Goods Vehicles<=2.5t	86.01233	2278.238	0
04 - Lt Goods Vehicles 2.5-3.5t	6222.632	220160.3	0
05 - Light Goods Vehicles>3.5t	0	81291.69	0
06 - Medium Goods Vehicles<=15t	0	52300.7	0
07 - Medium Goods Vehicles15-24t	0	102815.7	0
08 - Public Light Buses	0	10684	6609.321
09 - Private Light Bus <=3.5t	351.4012	1084.999	0
10 - Private Light Bus >3.5t	16.11292	9142.671	2054.103
11 - Non-franchised Bus<=6.4t	0	10185.96	0
12 - Non-franchised Bus 6.4-15t	0	7066.586	0
13 - Non-franchised Bus 15-24t	0	15512.9	0
14 - Franchised Bus (SD)	0	2933.663	0
15 - Franchised Bus (DD)	0	62351.05	0
16 - Motorcycles (MC)	402914	0	0
17 - Heavy Goods Vehicles>24t	0	26860.04	0
18 - Non-franchised Bus >24t	0	7.9984	0
19 - <Placeholder (P3)>	0	0	0
20 - <Placeholder (P4)>	0	0	0
21 - <Placeholder (P5)>	0	0	0

Adjusted VKT for minor road network

Adjusted VKT for minor road network by Vehicle Clas	Petrol	Diesel	LPG
01 - Private Cars (PC)	0.3627749	0.3879407	0
02 - Taxi	0.0649005	0	0.0649005
03 - Light Goods Vehicles<=2.5t	0.4494472	0.4218796	0
04 - Lt Goods Vehicles 2.5-3.5t	0.4373677	0.417087	0
05 - Light Goods Vehicles>3.5t	0	0.2893639	0
06 - Medium Goods Vehicles<=15t	0	0.3259778	0
07 - Medium Goods Vehicles15-24t	0	0.3249546	0
08 - Public Light Buses	0	0.115694	0.1157172
09 - Private Light Bus <=3.5t	0.322912	0.2014624	0
10 - Private Light Bus >3.5t	0.3550898	0.2457798	0.3508152
11 - Non-franchised Bus<=6.4t	0	0.2257211	0
12 - Non-franchised Bus 6.4-15t	0	0.2321084	0
13 - Non-franchised Bus 15-24t	0	0.2329819	0
14 - Franchised Bus (SD)	0	0.4157372	0
15 - Franchised Bus (DD)	0	0.3406629	0
16 - Motorcycles (MC)	2.5283601	0	0
17 - Heavy Goods Vehicles>24t	0	0.325316	0
18 - Non-franchised Bus >24t	0	0.2316575	0
19 - <Placeholder (P3)>	0	0	0
20 - <Placeholder (P4)>	0	0	0
21 - <Placeholder (P5)>	0	0	0

EMFAC-HK Version
v4.3

Traffic Year
2026

Proportion of local and rural roads
14.34%

Year of ATC data adopted
2022

VKT extracted from EMFAC-HK (Year 2026)

Hong Kong SAR VKT by Vehicle Class	Petrol	Diesel	LPG
01 - Private Cars (PC)	18784936	308620.6	0
02 - Taxi	1311.442	0	7864890
03 - Light Goods Vehicles<=2.5t	1334.544	37658.36	0
04 - Lt Goods Vehicles 2.5-3.5t	99215.2	3680978	0
05 - Light Goods Vehicles>3.5t	0	1959082	0
06 - Medium Goods Vehicles<=15t	0	1118846	0
07 - Medium Goods Vehicles15-24t	0	2206417	0
08 - Public Light Buses	0	643982.1	398299.6
09 - Private Light Bus <=3.5t	7588.744	37556.6	0
10 - Private Light Bus >3.5t	316.4367	259404.6	40831.44
11 - Non-franchised Bus<=6.4t	0	314688.3	0
12 - Non-franchised Bus 6.4-15t	0	212309.6	0
13 - Non-franchised Bus 15-24t	0	464324.5	0
14 - Franchised Bus (SD)	0	49208.73	0
15 - Franchised Bus (DD)	0	1276350	0
16 - Motorcycles (MC)	1111282	0	0
17 - Heavy Goods Vehicles>24t	0	575774	0
18 - Non-franchised Bus >24t	0	240.7729	0
19 - <Placeholder (P3)>	0	0	0
20 - <Placeholder (P4)>	0	0	0
21 - <Placeholder (P5)>	0	0	0

Trips per VKT	
PC	0.363182
TAXI	0.064901
LGV3	0.422823
LGV4	0.417619
LGV6	0.289364
HGV7	0.325978
HGV8	0.324955
PLB	0.115703
PV4	0.221878
PV5	0.260164
NFB6	0.225721
NFB7	0.232108
NFB8	0.232982
FBSD	0.415737
FBDD	0.340663
MC	2.528360
HGV9	0.325316
NFB9	0.231657

Note:
(a) Start emissions have been applied to the identified LDs and RRs (i.e. external roads TKO15 to TKO21) and internal roads of proposed concrete batching plant (i.e. CVEH 14-CVEH16).

Appendix G4 - Start Emission Profile (Vehicle Emissions from Internal Vehicles)

Link ID	Description	Road Type	Distance	Hour	HGV9b	Total VKT per hour	Total VKT per day
(ID)		(type)	(m)	(hour)	(#)	(VKT)	(VKT)
R1b	Tseung Kwan O Fill Bank Internal Road	Internal Road	242.0	00:00 ~ 01:00	0	0.0000	10.0384
				01:00 ~ 02:00	0	0.0000	
				02:00 ~ 03:00	0	0.0000	
				03:00 ~ 04:00	0	0.0000	
				04:00 ~ 05:00	0	0.0000	
				05:00 ~ 06:00	0	0.0000	
				06:00 ~ 07:00	0	0.0000	
				07:00 ~ 08:00	0	0.0000	
				08:00 ~ 09:00	3	0.7170	
				09:00 ~ 10:00	3	0.7170	
				10:00 ~ 11:00	3	0.7170	
				11:00 ~ 12:00	3	0.7170	
				12:00 ~ 13:00	3	0.7170	
				13:00 ~ 14:00	3	0.7170	
				14:00 ~ 15:00	3	0.7170	
				15:00 ~ 16:00	3	0.7170	
				16:00 ~ 17:00	3	0.7170	
				17:00 ~ 18:00	3	0.7170	
				18:00 ~ 19:00	3	0.7170	
				19:00 ~ 20:00	3	0.7170	
				20:00 ~ 21:00	3	0.7170	
				21:00 ~ 22:00	3	0.7170	
				22:00 ~ 23:00	0	0.0000	
				23:00 ~ 00:00	0	0.0000	
R5	Tseung Kwan O Fill Bank Internal Road	Internal Road	225.8	00:00 ~ 01:00	0	0.0000	621.4017
				01:00 ~ 02:00	0	0.0000	
				02:00 ~ 03:00	0	0.0000	
				03:00 ~ 04:00	0	0.0000	
				04:00 ~ 05:00	0	0.0000	
				05:00 ~ 06:00	0	0.0000	
				06:00 ~ 07:00	0	0.0000	
				07:00 ~ 08:00	172	38.8376	
				08:00 ~ 09:00	172	38.8376	
				09:00 ~ 10:00	172	38.8376	
				10:00 ~ 11:00	172	38.8376	
				11:00 ~ 12:00	172	38.8376	
				12:00 ~ 13:00	172	38.8376	
				13:00 ~ 14:00	172	38.8376	
				14:00 ~ 15:00	172	38.8376	
				15:00 ~ 16:00	172	38.8376	
				16:00 ~ 17:00	172	38.8376	
				17:00 ~ 18:00	172	38.8376	
				18:00 ~ 19:00	172	38.8376	
				19:00 ~ 20:00	172	38.8376	
				20:00 ~ 21:00	172	38.8376	
				21:00 ~ 22:00	172	38.8376	
				22:00 ~ 23:00	172	38.8376	
				23:00 ~ 00:00	0	0.0000	
R6	Tseung Kwan O Fill Bank Internal Road	Internal Road	116.1	00:00 ~ 01:00	105	12.1855	462.8162
				01:00 ~ 02:00	105	12.1855	
				02:00 ~ 03:00	105	12.1855	
				03:00 ~ 04:00	105	12.1855	
				04:00 ~ 05:00	105	12.1855	
				05:00 ~ 06:00	105	12.1855	
				06:00 ~ 07:00	105	12.1855	
				07:00 ~ 08:00	197	22.8333	
				08:00 ~ 09:00	197	22.8333	
				09:00 ~ 10:00	197	22.8333	
				10:00 ~ 11:00	197	22.8333	
				11:00 ~ 12:00	197	22.8333	
				12:00 ~ 13:00	197	22.8333	
				13:00 ~ 14:00	197	22.8333	
				14:00 ~ 15:00	197	22.8333	
				15:00 ~ 16:00	197	22.8333	
				16:00 ~ 17:00	197	22.8333	
				17:00 ~ 18:00	197	22.8333	
				18:00 ~ 19:00	197	22.8333	
				19:00 ~ 20:00	197	22.8333	
				20:00 ~ 21:00	197	22.8333	
				21:00 ~ 22:00	197	22.8333	
				22:00 ~ 23:00	197	22.8333	
				23:00 ~ 00:00	105	12.1855	
R7	Tseung Kwan O Fill Bank Internal Road	Internal Road	263.5	00:00 ~ 01:00	210	55.3430	1357.0849
				01:00 ~ 02:00	210	55.3430	
				02:00 ~ 03:00	210	55.3430	
				03:00 ~ 04:00	210	55.3430	
				04:00 ~ 05:00	210	55.3430	
				05:00 ~ 06:00	210	55.3430	
				06:00 ~ 07:00	210	55.3430	
				07:00 ~ 08:00	214	56.4631	
				08:00 ~ 09:00	217	57.2439	
				09:00 ~ 10:00	217	57.2439	
				10:00 ~ 11:00	217	57.2439	
				11:00 ~ 12:00	217	57.2439	
				12:00 ~ 13:00	217	57.2439	
				13:00 ~ 14:00	217	57.2439	
				14:00 ~ 15:00	217	57.2439	
				15:00 ~ 16:00	217	57.2439	
				16:00 ~ 17:00	217	57.2439	
				17:00 ~ 18:00	217	57.2439	
				18:00 ~ 19:00	217	57.2439	
				19:00 ~ 20:00	217	57.2439	
				20:00 ~ 21:00	217	57.2439	
				21:00 ~ 22:00	217	57.2439	
				22:00 ~ 23:00	214	56.4631	
				23:00 ~ 00:00	210	55.3430	

Appendix G4 - Start Emission Profile (Vehicle Emissions from Internal Vehicles)

Link ID	Description	Road Type	Distance	Hour	HGV9b	Total VKT per hour	Total VKT per day
(ID)		(type)	(m)	(hour)	(#)	(VKT)	(VKT)
R8	Tseung Kwan O Fill Bank Internal Road	Internal Road	229.3	00:00 ~ 01:00	210	48.1474	1180.6390
				01:00 ~ 02:00	210	48.1474	
				02:00 ~ 03:00	210	48.1474	
				03:00 ~ 04:00	210	48.1474	
				04:00 ~ 05:00	210	48.1474	
				05:00 ~ 06:00	210	48.1474	
				06:00 ~ 07:00	210	48.1474	
				07:00 ~ 08:00	214	49.1218	
				08:00 ~ 09:00	217	49.8011	
				09:00 ~ 10:00	217	49.8011	
				10:00 ~ 11:00	217	49.8011	
				11:00 ~ 12:00	217	49.8011	
				12:00 ~ 13:00	217	49.8011	
				13:00 ~ 14:00	217	49.8011	
				14:00 ~ 15:00	217	49.8011	
				15:00 ~ 16:00	217	49.8011	
				16:00 ~ 17:00	217	49.8011	
				17:00 ~ 18:00	217	49.8011	
				18:00 ~ 19:00	217	49.8011	
				19:00 ~ 20:00	217	49.8011	
				20:00 ~ 21:00	217	49.8011	
				21:00 ~ 22:00	217	49.8011	
				22:00 ~ 23:00	214	49.1218	
				23:00 ~ 00:00	210	48.1474	
R9a	Tseung Kwan O Fill Bank Internal Road	Internal Road	416.3	00:00 ~ 01:00	274	114.0622	3337.5611
				01:00 ~ 02:00	274	114.0622	
				02:00 ~ 03:00	274	114.0622	
				03:00 ~ 04:00	274	114.0622	
				04:00 ~ 05:00	274	114.0622	
				05:00 ~ 06:00	274	114.0622	
				06:00 ~ 07:00	274	114.0622	
				07:00 ~ 08:00	362	150.4872	
				08:00 ~ 09:00	364	151.7206	
				09:00 ~ 10:00	364	151.7206	
				10:00 ~ 11:00	364	151.7206	
				11:00 ~ 12:00	364	151.7206	
				12:00 ~ 13:00	364	151.7206	
				13:00 ~ 14:00	364	151.7206	
				14:00 ~ 15:00	364	151.7206	
				15:00 ~ 16:00	364	151.7206	
				16:00 ~ 17:00	364	151.7206	
				17:00 ~ 18:00	364	151.7206	
				18:00 ~ 19:00	364	151.7206	
				19:00 ~ 20:00	364	151.7206	
				20:00 ~ 21:00	364	151.7206	
				21:00 ~ 22:00	364	151.7206	
				22:00 ~ 23:00	362	150.4872	
				23:00 ~ 00:00	274	114.0622	
R9b	Tseung Kwan O Fill Bank Internal Road	Internal Road	269.7	00:00 ~ 01:00	169	45.5743	1852.4958
				01:00 ~ 02:00	169	45.5743	
				02:00 ~ 03:00	169	45.5743	
				03:00 ~ 04:00	169	45.5743	
				04:00 ~ 05:00	169	45.5743	
				05:00 ~ 06:00	169	45.5743	
				06:00 ~ 07:00	169	45.5743	
				07:00 ~ 08:00	341	91.9576	
				08:00 ~ 09:00	346	93.1715	
				09:00 ~ 10:00	346	93.1715	
				10:00 ~ 11:00	346	93.1715	
				11:00 ~ 12:00	346	93.1715	
				12:00 ~ 13:00	346	93.1715	
				13:00 ~ 14:00	346	93.1715	
				14:00 ~ 15:00	346	93.1715	
				15:00 ~ 16:00	346	93.1715	
				16:00 ~ 17:00	346	93.1715	
				17:00 ~ 18:00	346	93.1715	
				18:00 ~ 19:00	346	93.1715	
				19:00 ~ 20:00	346	93.1715	
				20:00 ~ 21:00	346	93.1715	
				21:00 ~ 22:00	344	92.7566	
				22:00 ~ 23:00	341	91.9576	
				23:00 ~ 00:00	169	45.5743	
R9c	Tseung Kwan O Fill Bank Internal Road	Internal Road	114.5	00:00 ~ 01:00	0	0.0000	7.0367
				01:00 ~ 02:00	0	0.0000	
				02:00 ~ 03:00	0	0.0000	
				03:00 ~ 04:00	0	0.0000	
				04:00 ~ 05:00	0	0.0000	
				05:00 ~ 06:00	0	0.0000	
				06:00 ~ 07:00	0	0.0000	
				07:00 ~ 08:00	0	0.0000	
				08:00 ~ 09:00	5	0.5152	
				09:00 ~ 10:00	5	0.5152	
				10:00 ~ 11:00	5	0.5152	
				11:00 ~ 12:00	5	0.5152	
				12:00 ~ 13:00	5	0.5152	
				13:00 ~ 14:00	5	0.5152	
				14:00 ~ 15:00	5	0.5152	
				15:00 ~ 16:00	5	0.5152	
				16:00 ~ 17:00	5	0.5152	
				17:00 ~ 18:00	5	0.5152	
				18:00 ~ 19:00	5	0.5152	
				19:00 ~ 20:00	5	0.5152	
				20:00 ~ 21:00	5	0.5152	
				21:00 ~ 22:00	3	0.3391	
				22:00 ~ 23:00	0	0.0000	
				23:00 ~ 00:00	0	0.0000	

Appendix G4 - Start Emission Profile (Vehicle Emissions from Internal Vehicles)

Link ID	Description	Road Type	Distance	Hour	HGV9b	Total VKT per hour	Total VKT per day
(ID)		(type)	(m)	(hour)	(#)	(VKT)	(VKT)
R11	Tseung Kwan O Fill Bank Internal Road	Internal Road	218.2	00:00 ~ 01:00	105	22.9156	1093.8391
				01:00 ~ 02:00	105	22.9156	
				02:00 ~ 03:00	105	22.9156	
				03:00 ~ 04:00	105	22.9156	
				04:00 ~ 05:00	105	22.9156	
				05:00 ~ 06:00	105	22.9156	
				06:00 ~ 07:00	105	22.9156	
				07:00 ~ 08:00	260	56.6343	
				08:00 ~ 09:00	261	56.9701	
				09:00 ~ 10:00	261	56.9701	
				10:00 ~ 11:00	261	56.9701	
				11:00 ~ 12:00	261	56.9701	
				12:00 ~ 13:00	261	56.9701	
				13:00 ~ 14:00	261	56.9701	
				14:00 ~ 15:00	261	56.9701	
				15:00 ~ 16:00	261	56.9701	
				16:00 ~ 17:00	261	56.9701	
				17:00 ~ 18:00	261	56.9701	
				18:00 ~ 19:00	261	56.9701	
				19:00 ~ 20:00	261	56.9701	
				20:00 ~ 21:00	261	56.9701	
				21:00 ~ 22:00	260	56.6343	
				22:00 ~ 23:00	260	56.6343	
				23:00 ~ 00:00	105	22.9156	
R11a	Tseung Kwan O Fill Bank Internal Road	Internal Road	370.5	00:00 ~ 01:00	105	38.9031	2479.4233
				01:00 ~ 02:00	105	38.9031	
				02:00 ~ 03:00	105	38.9031	
				03:00 ~ 04:00	105	38.9031	
				04:00 ~ 05:00	105	38.9031	
				05:00 ~ 06:00	105	38.9031	
				06:00 ~ 07:00	105	38.9031	
				07:00 ~ 08:00	365	135.0493	
				08:00 ~ 09:00	366	135.6193	
				09:00 ~ 10:00	366	135.6193	
				10:00 ~ 11:00	366	135.6193	
				11:00 ~ 12:00	366	135.6193	
				12:00 ~ 13:00	366	135.6193	
				13:00 ~ 14:00	366	135.6193	
				14:00 ~ 15:00	366	135.6193	
				15:00 ~ 16:00	366	135.6193	
				16:00 ~ 17:00	366	135.6193	
				17:00 ~ 18:00	366	135.6193	
				18:00 ~ 19:00	366	135.6193	
				19:00 ~ 20:00	366	135.6193	
				20:00 ~ 21:00	366	135.6193	
				21:00 ~ 22:00	365	135.0493	
				22:00 ~ 23:00	365	135.0493	
				23:00 ~ 00:00	105	38.9031	
R12	Tseung Kwan O Fill Bank Internal Road	Internal Road	155.0	00:00 ~ 01:00	0	0.0000	260.4092
				01:00 ~ 02:00	0	0.0000	
				02:00 ~ 03:00	0	0.0000	
				03:00 ~ 04:00	0	0.0000	
				04:00 ~ 05:00	0	0.0000	
				05:00 ~ 06:00	0	0.0000	
				06:00 ~ 07:00	0	0.0000	
				07:00 ~ 08:00	105	16.2756	
				08:00 ~ 09:00	105	16.2756	
				09:00 ~ 10:00	105	16.2756	
				10:00 ~ 11:00	105	16.2756	
				11:00 ~ 12:00	105	16.2756	
				12:00 ~ 13:00	105	16.2756	
				13:00 ~ 14:00	105	16.2756	
				14:00 ~ 15:00	105	16.2756	
				15:00 ~ 16:00	105	16.2756	
				16:00 ~ 17:00	105	16.2756	
				17:00 ~ 18:00	105	16.2756	
				18:00 ~ 19:00	105	16.2756	
				19:00 ~ 20:00	105	16.2756	
				20:00 ~ 21:00	105	16.2756	
				21:00 ~ 22:00	105	16.2756	
				22:00 ~ 23:00	105	16.2756	
				23:00 ~ 00:00	0	0.0000	

Total Trips per day within Tseung Kwan O Fill Bank		**50**
Total VKT per day within Tseung Kwan O Fill Bank		**12662.7454**
VKT per hour within Tseung Kwan O Fill Bank	00:00 ~ 01:00	337.1311
	01:00 ~ 02:00	337.1311
	02:00 ~ 03:00	337.1311
	03:00 ~ 04:00	337.1311
	04:00 ~ 05:00	337.1311
	05:00 ~ 06:00	337.1311
	06:00 ~ 07:00	337.1311
	07:00 ~ 08:00	617.6597
	08:00 ~ 09:00	623.7053
	09:00 ~ 10:00	623.7053
	10:00 ~ 11:00	623.7053
	11:00 ~ 12:00	623.7053
	12:00 ~ 13:00	623.7053
	13:00 ~ 14:00	623.7053
	14:00 ~ 15:00	623.7053
	15:00 ~ 16:00	623.7053
	16:00 ~ 17:00	623.7053
	17:00 ~ 18:00	623.7053
	18:00 ~ 19:00	623.7053
	19:00 ~ 20:00	623.7053
	20:00 ~ 21:00	623.7053
	21:00 ~ 22:00	622.2085
	22:00 ~ 23:00	617.6597
	23:00 ~ 00:00	337.1311

APPENDIX H DETAILS OF THE ALBEDO, BOWEN RATIO AND SURFACE ROUGHNESS

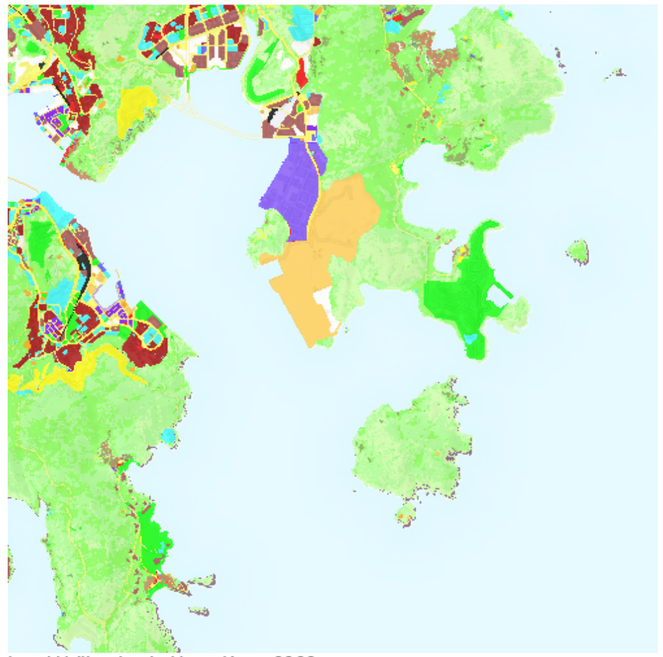
Appendix H - Details of the Albedo, Bowen Ratio and Surface Roughness

Calculation of Albedo, Bowen Ratio
PATH GRID 50,27

Code	Color Sample	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Fraction of Total Area
1		Private Residential	1	0.18	1.5	11,456	1.15%
2		Public Residential	1	0.18	1.5	15,460	1.55%
3		Rural Settlement	0.375	0.165	0.9	4,603	0.46%
11		Commercial/Business and Office	1	0.18	1.5	1,599	0.16%
21		Industrial Land	0.7	0.18	1.5	1,989	0.20%
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	8,562	0.86%
23		Warehouse and Open Storage	0.7	0.18	1.5	898	0.09%
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	12,780	1.28%
32		Open Space and Recreation	0.04	0.15	1	23,364	2.34%
41		Roads and Transport Facilities	0.7	0.18	1.5	19,563	1.96%
42		Railways	0.7	0.18	1.5	1,283	0.13%
43		Airport	0.07	0.18	1.5	-	0.00%
44		Port Facilities	0.7	0.18	1.5	271	0.03%
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	7,951	0.80%
52		Utilities	0.7	0.18	1.5	1,589	0.16%
53		Vacant Land/Construction in Progress	0.2	0.18	1	8,763	0.88%
54		Others	0.2	0.18	1	20,696	2.07%
61		Agricultural Land	0.1575	0.18	0.55	4,120	0.41%
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	-	0.00%
71		Woodland	1.05	0.1625	0.75	93,283	9.33%
72		Shrubland	0.3	0.18	1.25	91,162	9.12%
73		Grassland	0.065	0.185	0.8	68,374	6.84%
74		Mangrove/Swamp	0.065	0.14	0.225	18	0.00%
81		Badland	0.15	0.1625	0.75	-	0.00%
83		Rocky Shore	0.05	0.2	4.75	2,731	0.27%
91		Reservoirs	0.001	0.1	0.1	-	0.00%
92		Streams and Nullahs	0.001	0.1	0.1	110	0.01%
99		SZ Residential (not belong to PlanD categories if it is outside Hong Kong border)	1	0.18	1.5	-	0.00%
0		Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	0.1	0.1	599,375	59.94%
Average:				**0.130035**	**0.254865**		

(Extracted from EPD's SAMP 2.0)

Center: X=846625, Y=814065, Z=9.0; Met Year=2019;



Land Utilization in Hong Kong 2023

Notes:

(a) The calculations of albedo and Bowen ratio are generated together with the AERMOD-ready meteorological data, from the EPD's Smart Air Modelling Platform 2.0 (SAMP2.0).

(b) Albedo is referenced from Table A-1 of the AERSURFACE User's Guide 2008 (revised in 2013) and calculated based on the area-weighted arithmetic mean within 10km x 10km area from the Project Site.

(c) Bowen ratio is referenced from Table A-2 of the AERSURFACE User's Guide 2008 (revised in 2013) and calculated based on the area-weighted geometric mean within 10km x 10km area from the Project Site. Considering the climate in Hong Kong covers dry and wet season throughout the year, bowen ratios for average moisture conditions have been adopted.

Appendix H - Details of the Albedo, Bowen Ratio and Surface Roughness

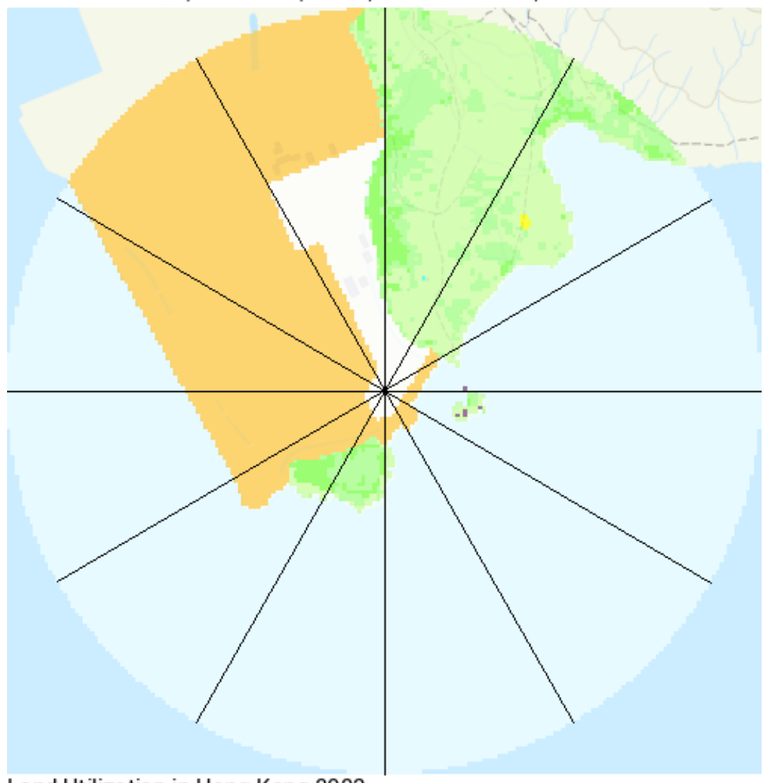
Calculation of Surface Roughness
PATH GRID 50,27

PATH Grid	Sector Group	Resultant Surface Roughness	Albedo	Bowen Ratio
50,27	0 - 30	0.122162	0.130035	0.254865
	30 - 60	0.025997	0.130035	0.254865
	60 - 90	0.001918	0.130035	0.254865
	90 - 120	0.001762	0.130035	0.254865
	120 - 150	0.001989	0.130035	0.254865
	150 - 180	0.001912	0.130035	0.254865
	180 - 210	0.005339	0.130035	0.254865
	210 - 240	0.009172	0.130035	0.254865
	240 - 270	0.012458	0.130035	0.254865
	270 - 300	0.033918	0.130035	0.254865
	300 - 330	0.194502	0.130035	0.254865
	330 - 360	0.209830	0.130035	0.254865

Notes:
(a) The calculation of surface roughness is generated together with the AERMOD-ready meteorological data, from the EPD's Smart Air Modelling Platform 2.0 (SAMP2.0).

(b) The surface roughness value is referenced from Table A-3 of the AERSURFACE User's Guide 2008 (revised in 2013). For sector consisting of 2 or more different land use types, the resultant surface roughness length for the sector is calculated based on the inverse-distance weighted geometric mean.

(Extracted from EPD's SAMP 2.0)
Center: X=846625, Y=814065, Z=9.0; Met Year=2019;



Land Utilization in Hong Kong 2023

Summary of Grid Count

Sector Group	PlanD Code	Description	Roughness	Cell Grid Count
0 - 30	31	Government, Institutional and Community Facilities	0.7	1
0 - 30	53	Vacant Land/Construction in Progress	0.2	77
0 - 30	71	Woodland	1.05	142
0 - 30	72	Shrubland	0.3	584
0 - 30	73	Grassland	0.065	1814
30 - 60	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	1196
30 - 60	51	Cemeteries/Funeral Facilities	0.7	9
30 - 60	53	Vacant Land/Construction in Progress	0.2	55
30 - 60	54	Others	0.2	11
30 - 60	71	Woodland	1.05	90
30 - 60	72	Shrubland	0.3	433
30 - 60	73	Grassland	0.065	827
60 - 90	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	2564
60 - 90	53	Vacant Land/Construction in Progress	0.2	16
60 - 90	54	Others	0.2	24
60 - 90	73	Grassland	0.065	13
60 - 90	83	Rocky Shore	0.05	1
90 - 120	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	2557
90 - 120	53	Vacant Land/Construction in Progress	0.2	7
90 - 120	54	Others	0.2	12
90 - 120	71	Woodland	1.05	2
90 - 120	72	Shrubland	0.3	10
90 - 120	73	Grassland	0.065	26
90 - 120	83	Rocky Shore	0.05	4
120 - 150	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	2584
120 - 150	53	Vacant Land/Construction in Progress	0.2	8
120 - 150	54	Others	0.2	29
150 - 180	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	2563
150 - 180	53	Vacant Land/Construction in Progress	0.2	12
150 - 180	54	Others	0.2	23
150 - 180	72	Shrubland	0.3	1
150 - 180	73	Grassland	0.065	19
180 - 210	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	2372
180 - 210	53	Vacant Land/Construction in Progress	0.2	14
180 - 210	54	Others	0.2	37
180 - 210	71	Woodland	1.05	45
180 - 210	72	Shrubland	0.3	127
180 - 210	73	Grassland	0.065	23
210 - 240	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	2196
210 - 240	53	Vacant Land/Construction in Progress	0.2	9
210 - 240	54	Others	0.2	296
210 - 240	71	Woodland	1.05	68
210 - 240	72	Shrubland	0.3	22
210 - 240	73	Grassland	0.065	30
240 - 270	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	2009
240 - 270	53	Vacant Land/Construction in Progress	0.2	7
240 - 270	54	Others	0.2	602
270 - 300	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	1418
270 - 300	53	Vacant Land/Construction in Progress	0.2	4
270 - 300	54	Others	0.2	1196
300 - 330	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	27
300 - 330	53	Vacant Land/Construction in Progress	0.2	25
300 - 330	54	Others	0.2	2569
330 - 360	53	Vacant Land/Construction in Progress	0.2	805
330 - 360	54	Others	0.2	1559
330 - 360	71	Woodland	1.05	102
330 - 360	72	Shrubland	0.3	58
330 - 360	73	Grassland	0.065	94

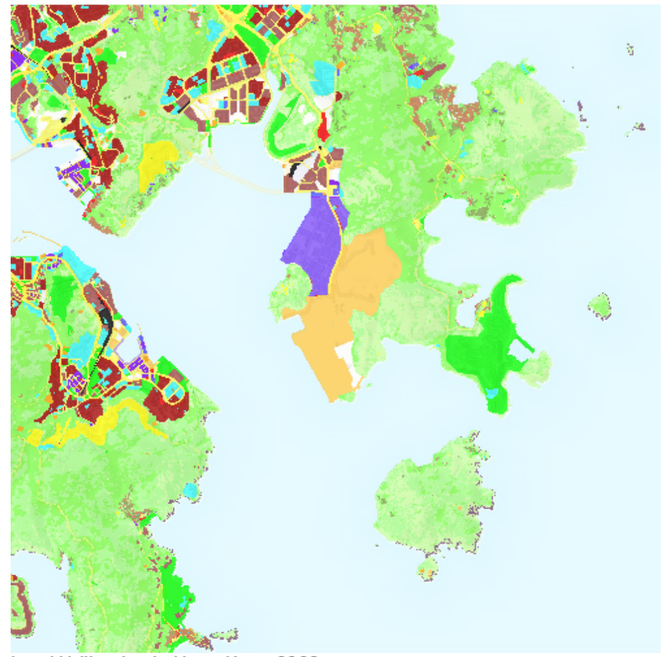
Appendix H - Details of the Albedo, Bowen Ratio and Surface Roughness

Calculation of Albedo, Bowen Ratio
PATH GRID 50,28

Code	Color Sample	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Fraction of Total Area
1		Private Residential	1	0.18	1.5	15,312	1.53%
2		Public Residential	1	0.18	1.5	23,934	2.39%
3		Rural Settlement	0.375	0.165	0.9	7,195	0.72%
11		Commercial/Business and Office	1	0.18	1.5	2,034	0.20%
21		Industrial Land	0.7	0.18	1.5	2,627	0.26%
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	8,562	0.86%
23		Warehouse and Open Storage	0.7	0.18	1.5	1,038	0.10%
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	15,701	1.57%
32		Open Space and Recreation	0.04	0.15	1	27,106	2.71%
41		Roads and Transport Facilities	0.7	0.18	1.5	26,999	2.70%
42		Railways	0.7	0.18	1.5	1,351	0.14%
43		Airport	0.07	0.18	1.5	-	0.00%
44		Port Facilities	0.7	0.18	1.5	271	0.03%
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	8,462	0.85%
52		Utilities	0.7	0.18	1.5	1,940	0.19%
53		Vacant Land/Construction in Progress	0.2	0.18	1	9,765	0.98%
54		Others	0.2	0.18	1	20,878	2.09%
61		Agricultural Land	0.1575	0.18	0.55	5,829	0.58%
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	-	0.00%
71		Woodland	1.05	0.1625	0.75	114,677	11.47%
72		Shrubland	0.3	0.18	1.25	99,894	9.99%
73		Grassland	0.065	0.185	0.8	66,250	6.63%
74		Mangrove/Swamp	0.065	0.14	0.225	19	0.00%
81		Badland	0.15	0.1625	0.75	-	0.00%
83		Rocky Shore	0.05	0.2	4.75	2,351	0.24%
91		Reservoirs	0.001	0.1	0.1	-	0.00%
92		Streams and Nullahs	0.001	0.1	0.1	125	0.01%
99		SZ Residential (not belong to PlanD categories if it is outside Hong Kong border)	1	0.18	1.5	-	0.00%
0		Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	0.1	0.1	537,680	53.77%
Average:				**0.134425**	**0.295068**		

(Extracted from EPD's SAMP 2.0)

Center: X=846335, Y=814905, Z=13.0; Met Year=2019;



Land Utilization in Hong Kong 2023

Notes:

(a) The calculations of albedo and Bowen ratio are generated together with the AERMOD-ready meteorological data, from the EPD's Smart Air Modelling Platform 2.0 (SAMP2.0).

(b) Albedo is referenced from Table A-1 of the AERSURFACE User's Guide 2008 (revised in 2013) and calculated based on the area-weighted arithmetic mean within 10km x 10km area from the Project Site.

(c) Bowen ratio is referenced from Table A-2 of the AERSURFACE User's Guide 2008 (revised in 2013) and calculated based on the area-weighted geometric mean within 10km x 10km area from the Project Site. Considering the climate in Hong Kong covers dry and wet season throughout the year, bowen ratios for average moisture conditions have been adopted.

Appendix H - Details of the Albedo, Bowen Ratio and Surface Roughness

Calculation of Surface Roughness

PATH GRID 50,28

PATH Grid	Sector Group	Resultant Surface Roughness	Albedo	Bowen Ratio
50,28	0 - 30	0.200698	0.134425	0.295068
	30 - 60	0.189353	0.134425	0.295068
	60 - 90	0.130262	0.134425	0.295068
	90 - 120	0.079017	0.134425	0.295068
	120 - 150	0.083489	0.134425	0.295068
	150 - 180	0.174876	0.134425	0.295068
	180 - 210	0.108255	0.134425	0.295068
	210 - 240	0.032666	0.134425	0.295068
	240 - 270	0.028970	0.134425	0.295068
	270 - 300	0.056973	0.134425	0.295068
	300 - 330	0.214974	0.134425	0.295068
	330 - 360	0.318679	0.134425	0.295068

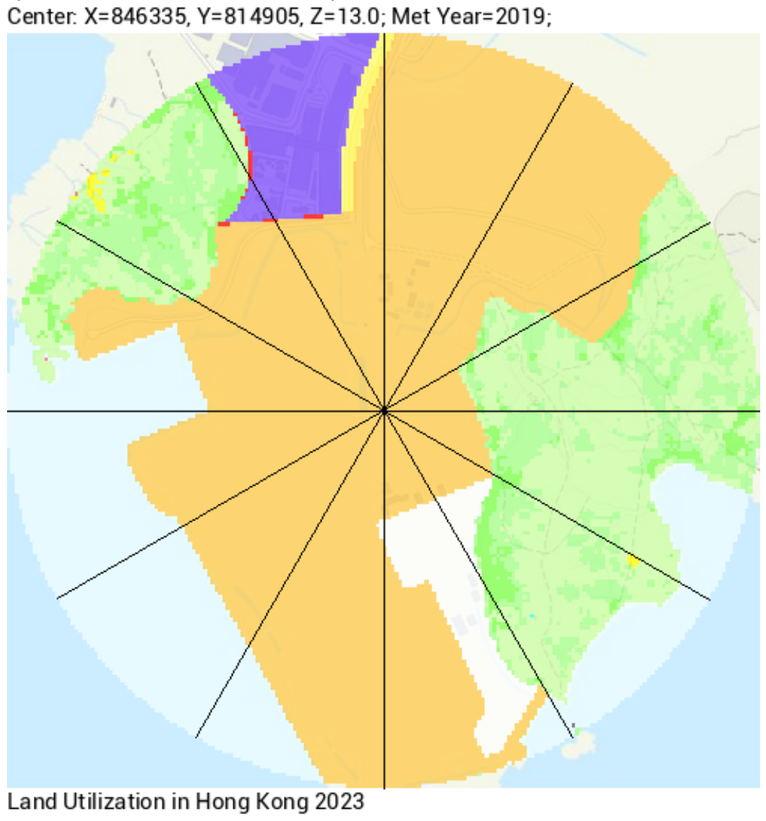
Notes:

(a) The calculation of surface roughness is generated together with the AERMOD-ready meteorological data, from the EPD's Smart Air Modelling Platform 2.0 (SAMP2.0).

(b) The surface roughness value is referenced from Table A-3 of the AERSURFACE User's Guide 2008 (revised in 2013). For sector consisting of 2 or more different land use types, the resultant surface roughness length for the sector is calculated based on the inverse-distance weighted geometric mean.

(Extracted from EPD's SAMP 2.0)

Center: X=846335, Y=814905, Z=13.0; Met Year=2019;



Land Utilization in Hong Kong 2023

Summary of Grid Count

Sector Group	PlanD Code	Description	Roughness	Cell Grid Count
0 - 30	41	Roads and Transport Facilities	0.7	14
0 - 30	54	Others	0.2	2604
30 - 60	54	Others	0.2	2247
30 - 60	71	Woodland	1.05	25
30 - 60	72	Shrubland	0.3	97
30 - 60	73	Grassland	0.065	252
60 - 90	54	Others	0.2	360
60 - 90	71	Woodland	1.05	115
60 - 90	72	Shrubland	0.3	579
60 - 90	73	Grassland	0.065	1564
90 - 120	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	564
90 - 120	54	Others	0.2	211
90 - 120	71	Woodland	1.05	138
90 - 120	72	Shrubland	0.3	503
90 - 120	73	Grassland	0.065	1202
120 - 150	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	695
120 - 150	31	Government, Institutional and Community Facilities	0.7	1
120 - 150	51	Cemeteries/Funeral Facilities	0.7	9
120 - 150	53	Vacant Land/Construction in Progress	0.2	154
120 - 150	54	Others	0.2	237
120 - 150	71	Woodland	1.05	171
120 - 150	72	Shrubland	0.3	425
120 - 150	73	Grassland	0.065	928
120 - 150	83	Rocky Shore	0.05	1
150 - 180	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	115
150 - 180	53	Vacant Land/Construction in Progress	0.2	879
150 - 180	54	Others	0.2	1500
150 - 180	71	Woodland	1.05	20
150 - 180	72	Shrubland	0.3	25
150 - 180	73	Grassland	0.065	79
180 - 210	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	539
180 - 210	53	Vacant Land/Construction in Progress	0.2	6
180 - 210	54	Others	0.2	2073
210 - 240	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	1501
210 - 240	54	Others	0.2	1120
240 - 270	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	1538
240 - 270	54	Others	0.2	1080
270 - 300	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	835
270 - 300	54	Others	0.2	1124
270 - 300	71	Woodland	1.05	83
270 - 300	72	Shrubland	0.3	173
270 - 300	73	Grassland	0.065	402
270 - 300	74	Mangrove/Swamp	0.065	1
300 - 330	3	Rural Settlement	0.375	1
300 - 330	11	Commercial/Business and Office	1	8
300 - 330	22	Industrial Estates/Science and Technology Parks	0.7	66
300 - 330	51	Cemeteries/Funeral Facilities	0.7	41
300 - 330	54	Others	0.2	963
300 - 330	71	Woodland	1.05	249
300 - 330	72	Shrubland	0.3	767
300 - 330	73	Grassland	0.065	526
330 - 360	11	Commercial/Business and Office	1	20
330 - 360	22	Industrial Estates/Science and Technology Parks	0.7	1340
330 - 360	41	Roads and Transport Facilities	0.7	162
330 - 360	54	Others	0.2	992
330 - 360	71	Woodland	1.05	33
330 - 360	72	Shrubland	0.3	3
330 - 360	73	Grassland	0.065	68

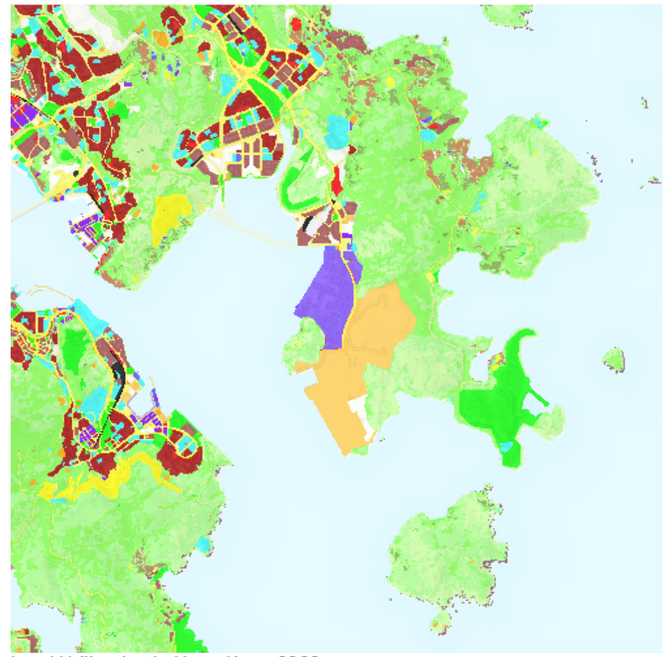
Appendix H - Details of the Albedo, Bowen Ratio and Surface Roughness

Calculation of Albedo, Bowen Ratio
PATH GRID 50,29

Code	Color Sample	Hong Kong Planning Department Classification	Roughness	Albedo	Bowen Ratio	Grid Count	Fraction of Total Area
1		Private Residential	1	0.18	1.5	17,874	1.79%
2		Public Residential	1	0.18	1.5	31,284	3.13%
3		Rural Settlement	0.375	0.165	0.9	7,539	0.75%
11		Commercial/Business and Office	1	0.18	1.5	3,016	0.30%
21		Industrial Land	0.7	0.18	1.5	3,133	0.31%
22		Industrial Estates/Science and Technology Parks	0.7	0.18	1.5	8,562	0.86%
23		Warehouse and Open Storage	0.7	0.18	1.5	1,128	0.11%
31		Government, Institutional and Community Facilities	0.7	0.18	1.5	18,878	1.89%
32		Open Space and Recreation	0.04	0.15	1	27,984	2.80%
41		Roads and Transport Facilities	0.7	0.18	1.5	33,383	3.34%
42		Railways	0.7	0.18	1.5	1,538	0.15%
43		Airport	0.07	0.18	1.5	-	0.00%
44		Port Facilities	0.7	0.18	1.5	271	0.03%
51		Cemeteries/Funeral Facilities	0.7	0.18	1.5	8,507	0.85%
52		Utilities	0.7	0.18	1.5	3,001	0.30%
53		Vacant Land/Construction in Progress	0.2	0.18	1	13,454	1.35%
54		Others	0.2	0.18	1	20,971	2.10%
61		Agricultural Land	0.1575	0.18	0.55	6,199	0.62%
62		Fish Ponds/Gei Wais	0.001	0.1	0.1	-	0.00%
71		Woodland	1.05	0.1625	0.75	125,223	12.52%
72		Shrubland	0.3	0.18	1.25	102,167	10.22%
73		Grassland	0.065	0.185	0.8	69,187	6.92%
74		Mangrove/Swamp	0.065	0.14	0.225	49	0.00%
81		Badland	0.15	0.1625	0.75	-	0.00%
83		Rocky Shore	0.05	0.2	4.75	2,162	0.22%
91		Reservoirs	0.001	0.1	0.1	-	0.00%
92		Streams and Nullahs	0.001	0.1	0.1	193	0.02%
99		SZ Residential (not belong to PlanD categories if it is outside Hong Kong border)	1	0.18	1.5	-	0.00%
0		Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	0.1	0.1	494,297	49.43%
Average:				**0.137684**	**0.327741**		

(Extracted from EPD's SAMP 2.0)

Center: X=846145, Y=815735, Z=6.0; Met Year=2019;



Land Utilization in Hong Kong 2023

Notes:

(a) The calculations of albedo and Bowen ratio are generated together with the AERMOD-ready meteorological data, from the EPD's Smart Air Modelling Platform 2.0 (SAMP2.0).

(b) Albedo is referenced from Table A-1 of the AERSURFACE User's Guide 2008 (revised in 2013) and calculated based on the area-weighted arithmetic mean within 10km x 10km area from the Project Site.

(c) Bowen ratio is referenced from Table A-2 of the AERSURFACE User's Guide 2008 (revised in 2013) and calculated based on the area-weighted geometric mean within 10km x 10km area from the Project Site. Considering the climate in Hong Kong covers dry and wet season throughout the year, bowen ratios for average moisture conditions have been adopted.

Appendix H - Details of the Albedo, Bowen Ratio and Surface Roughness

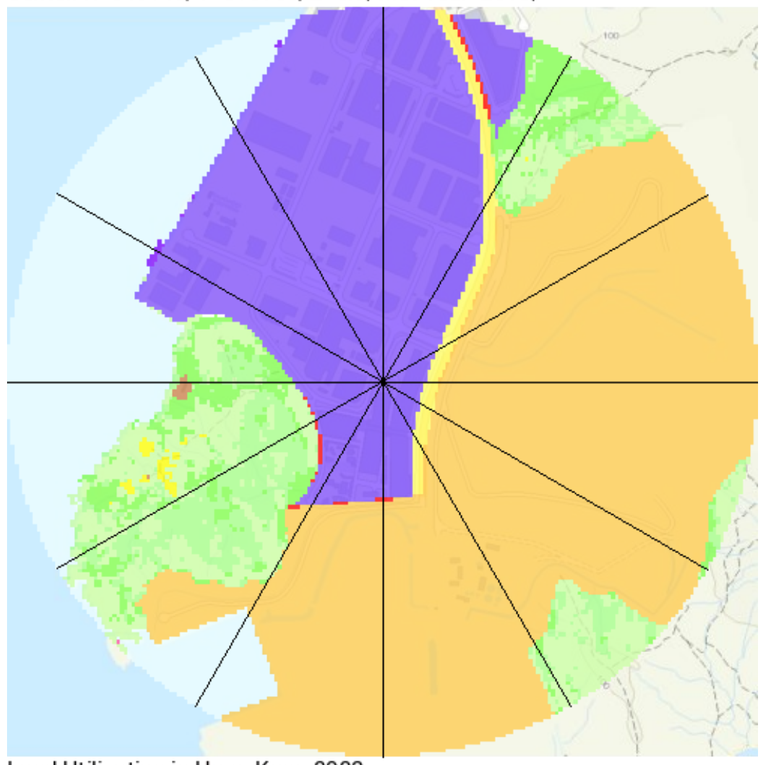
Calculation of Surface Roughness
PATH GRID 50,29

PATH Grid	Sector Group	Resultant Surface Roughness	Albedo	Bowen Ratio
50,29	0 - 30	0.699577	0.137684	0.327741
	30 - 60	0.336521	0.137684	0.327741
	60 - 90	0.248384	0.137684	0.327741
	90 - 120	0.236981	0.137684	0.327741
	120 - 150	0.234332	0.137684	0.327741
	150 - 180	0.286775	0.137684	0.327741
	180 - 210	0.213317	0.137684	0.327741
	210 - 240	0.177823	0.137684	0.327741
	240 - 270	0.070278	0.137684	0.327741
	270 - 300	0.046175	0.137684	0.327741
	300 - 330	0.115254	0.137684	0.327741
	330 - 360	0.446180	0.137684	0.327741

Notes:
(a) The calculation of surface roughness is generated together with the AERMOD-ready meteorological data, from the EPD's Smart Air Modelling Platform 2.0 (SAMP2.0).

(b) The surface roughness value is referenced from Table A-3 of the AERSURFACE User's Guide 2008 (revised in 2013). For sector consisting of 2 or more different land use types, the resultant surface roughness length for the sector is calculated based on the inverse-distance weighted geometric mean.

(Extracted from EPD's SAMP 2.0)
Center: X=846145, Y=815735, Z=6.0; Met Year=2019;



Land Utilization in Hong Kong 2023

Summary of Grid Count

Sector Group	PlanD Code	Description	Roughness	Cell Grid Count
0 - 30	11	Commercial/Business and Office	1	26
0 - 30	22	Industrial Estates/Science and Technology Parks	0.7	2176
0 - 30	41	Roads and Transport Facilities	0.7	152
0 - 30	71	Woodland	1.05	213
0 - 30	72	Shrubland	0.3	20
0 - 30	73	Grassland	0.065	31
30 - 60	22	Industrial Estates/Science and Technology Parks	0.7	289
30 - 60	41	Roads and Transport Facilities	0.7	149
30 - 60	51	Cemeteries/Funeral Facilities	0.7	1
30 - 60	54	Others	0.2	1426
30 - 60	71	Woodland	1.05	259
30 - 60	72	Shrubland	0.3	167
30 - 60	73	Grassland	0.065	330
60 - 90	22	Industrial Estates/Science and Technology Parks	0.7	47
60 - 90	41	Roads and Transport Facilities	0.7	41
60 - 90	54	Others	0.2	2530
90 - 120	22	Industrial Estates/Science and Technology Parks	0.7	31
90 - 120	41	Roads and Transport Facilities	0.7	28
90 - 120	54	Others	0.2	2421
90 - 120	71	Woodland	1.05	27
90 - 120	72	Shrubland	0.3	29
90 - 120	73	Grassland	0.065	82
120 - 150	22	Industrial Estates/Science and Technology Parks	0.7	49
120 - 150	41	Roads and Transport Facilities	0.7	38
120 - 150	54	Others	0.2	1889
120 - 150	71	Woodland	1.05	32
120 - 150	72	Shrubland	0.3	157
120 - 150	73	Grassland	0.065	456
150 - 180	11	Commercial/Business and Office	1	3
150 - 180	22	Industrial Estates/Science and Technology Parks	0.7	192
150 - 180	41	Roads and Transport Facilities	0.7	41
150 - 180	54	Others	0.2	2318
150 - 180	71	Woodland	1.05	8
150 - 180	72	Shrubland	0.3	17
150 - 180	73	Grassland	0.065	39
180 - 210	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	301
180 - 210	11	Commercial/Business and Office	1	6
180 - 210	22	Industrial Estates/Science and Technology Parks	0.7	299
180 - 210	54	Others	0.2	2006
180 - 210	71	Woodland	1.05	1
180 - 210	72	Shrubland	0.3	1
180 - 210	73	Grassland	0.065	4
210 - 240	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	435
210 - 240	11	Commercial/Business and Office	1	16
210 - 240	22	Industrial Estates/Science and Technology Parks	0.7	181
210 - 240	54	Others	0.2	405
210 - 240	71	Woodland	1.05	213
210 - 240	72	Shrubland	0.3	732
210 - 240	73	Grassland	0.065	638
210 - 240	74	Mangrove/Swamp	0.065	1
240 - 270	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	1062
240 - 270	3	Rural Settlement	0.375	20
240 - 270	11	Commercial/Business and Office	1	3
240 - 270	22	Industrial Estates/Science and Technology Parks	0.7	116
240 - 270	51	Cemeteries/Funeral Facilities	0.7	69
240 - 270	71	Woodland	1.05	321
240 - 270	72	Shrubland	0.3	296
240 - 270	73	Grassland	0.065	731
270 - 300	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	1605
270 - 300	3	Rural Settlement	0.375	3
270 - 300	21	Industrial Land	0.7	8
270 - 300	22	Industrial Estates/Science and Technology Parks	0.7	584
270 - 300	53	Vacant Land/Construction in Progress	0.2	5
270 - 300	71	Woodland	1.05	137
270 - 300	72	Shrubland	0.3	106
270 - 300	73	Grassland	0.065	170
300 - 330	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	1258
300 - 330	21	Industrial Land	0.7	8
300 - 330	22	Industrial Estates/Science and Technology Parks	0.7	1355
330 - 360	0	Open Sea (not belong to PlanD categories if it is outside Hong Kong border)	0.001	329
330 - 360	21	Industrial Land	0.7	3
330 - 360	22	Industrial Estates/Science and Technology Parks	0.7	2286

APPENDIX I PREDICTED CUMULATIVE POLLUTANT CONCENTRATIONS AT ASRS

Appendix I - Predicted Pollutant Concentrations at ASRs (Cumulative Results)

						Cumulative 10th Highest 24-hour Average RSP (µg/m^3)						
						Receptor Height (in mAG)						
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**4.5**	**7.5**	**10**	**20**	**30**	**40**
A1	TVB City	846210	815485	50,29	5.3	58.69	58.65	58.55	58.49	58.42	58.42	-
A2	TVB City	846105	815495	50,29	5.3	58.58	58.57	58.57	58.56	58.54	58.43	-
A3	HAESL	846091	815718	50,29	5.3	58.56	58.52	58.48	58.46	58.45	58.43	-
A4	TVB City	846260	815786	50,29	6.1	58.60	58.59	58.55	58.51	58.43	58.41	-
A5	HAESL Component Overhaul Building	846139	815840	50,29	5.8	58.56	58.53	58.49	58.47	58.43	58.42	-
A6	Digital Savvis Investment	846325	815907	50,29	9.5	58.56	58.52	58.46	58.43	58.41	58.41	-
A7	Trade Development Council	845881	815903	50,29	7.7	58.42	58.42	58.42	58.42	58.42	-	-
A8	Office Building of SENT Landfill Extension	846390	814682	50,28	5.0	62.94	62.76	-	-	-	-	-
A9	Office Building of Desalination Plant	846623	814066	50,27	5.0	61.18	60.85	60.50	59.88	59.87	59.86	59.86
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	846274	815126	50,28	5.9	63.96	-	-	-	-	-	-
					AQO Criterion	**100**	**100**	**100**	**100**	**100**	**100**	**100**
					Max % relative to AQO Criterion	63.96%	62.76%	60.50%	59.88%	59.87%	59.86%	59.86%

						Cumulative Annual Average RSP (µg/m^3)						
						Receptor Height (in mAG)						
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**4.5**	**7.5**	**10**	**20**	**30**	**40**
A1	TVB City	846210	815485	50,29	5.3	24.26	24.20	24.04	23.87	23.27	22.82	-
A2	TVB City	846105	815495	50,29	5.3	23.97	23.93	23.84	23.73	23.18	22.73	-
A3	HAESL	846091	815718	50,29	5.3	22.74	22.69	22.64	22.61	22.48	22.28	-
A4	TVB City	846260	815786	50,29	6.1	22.73	22.70	22.66	22.62	22.48	22.31	-
A5	HAESL Component Overhaul Building	846139	815840	50,29	5.8	22.55	22.51	22.46	22.44	22.33	22.18	-
A6	Digital Savvis Investment	846325	815907	50,29	9.5	22.59	22.54	22.46	22.41	22.31	22.18	-
A7	Trade Development Council	845881	815903	50,29	7.7	22.19	22.19	22.18	22.17	22.10	-	-
A8	Office Building of SENT Landfill Extension	846390	814682	50,28	5.0	26.54	26.48	-	-	-	-	-
A9	Office Building of Desalination Plant	846623	814066	50,27	5.0	23.56	23.40	23.15	22.99	22.65	22.50	22.33
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	846274	815126	50,28	5.9	28.74	-	-	-	-	-	-
					AQO Criterion	**50**	**50**	**50**	**50**	**50**	**50**	**50**
					Max % relative to AQO Criterion	57.48%	52.97%	48.09%	47.74%	46.54%	45.63%	44.65%

Appendix I - Predicted Pollutant Concentrations at ASRs (Cumulative Results)

						Cumulative 19th Highest 24-hour Average FSP (µg/m^3)						
						Receptor Height (in mAG)						
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**4.5**	**7.5**	**10**	**20**	**30**	**40**
A1	TVB City	846210	815485	50,29	5.3	35.68	35.67	35.62	35.59	35.50	35.26	-
A2	TVB City	846105	815495	50,29	5.3	35.59	35.59	35.58	35.58	35.56	35.27	-
A3	HAESL	846091	815718	50,29	5.3	35.65	35.62	35.59	35.57	35.46	35.27	-
A4	TVB City	846260	815786	50,29	6.1	35.56	35.50	35.37	35.33	35.27	35.26	-
A5	HAESL Component Overhaul Building	846139	815840	50,29	5.8	35.65	35.62	35.54	35.49	35.28	35.26	-
A6	Digital Savvis Investment	846325	815907	50,29	9.5	35.43	35.36	35.30	35.27	35.25	35.25	-
A7	Trade Development Council	845881	815903	50,29	7.7	35.54	35.54	35.54	35.53	35.30	-	-
A8	Office Building of SENT Landfill Extension	846390	814682	50,28	5.0	38.39	38.39	-	-	-	-	-
A9	Office Building of Desalination Plant	846623	814066	50,27	5.0	36.28	36.28	36.27	36.27	36.25	36.23	36.23
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	846274	815126	50,28	5.9	38.44	-	-	-	-	-	-
					AQO Criterion	**50**	**50**	**50**	**50**	**50**	**50**	**50**
					Max % relative to AQO Criterion	76.88%	76.78%	72.54%	72.54%	72.50%	72.47%	72.46%

						Cumulative Annual Average FSP (µg/m^3)						
						Receptor Height (in mAG)						
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**4.5**	**7.5**	**10**	**20**	**30**	**40**
A1	TVB City	846210	815485	50,29	5.3	14.45	14.41	14.33	14.26	14.02	13.86	-
A2	TVB City	846105	815495	50,29	5.3	14.33	14.31	14.27	14.22	14.02	13.85	-
A3	HAESL	846091	815718	50,29	5.3	13.96	13.93	13.88	13.86	13.79	13.71	-
A4	TVB City	846260	815786	50,29	6.1	13.96	13.94	13.91	13.87	13.78	13.71	-
A5	HAESL Component Overhaul Building	846139	815840	50,29	5.8	13.89	13.86	13.82	13.80	13.74	13.67	-
A6	Digital Savvis Investment	846325	815907	50,29	9.5	13.93	13.88	13.81	13.78	13.71	13.66	-
A7	Trade Development Council	845881	815903	50,29	7.7	13.69	13.69	13.68	13.68	13.64	-	-
A8	Office Building of SENT Landfill Extension	846390	814682	50,28	5.0	15.63	15.60	-	-	-	-	-
A9	Office Building of Desalination Plant	846623	814066	50,27	5.0	14.31	14.28	14.24	14.21	14.05	13.90	13.80
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	846274	815126	50,28	5.9	16.05	-	-	-	-	-	-
					AQO Criterion	**25**	**25**	**25**	**25**	**25**	**25**	**25**
					Max % relative to AQO Criterion	64.19%	62.41%	57.33%	57.03%	56.18%	55.59%	55.21%

Appendix I - Predicted Pollutant Concentrations at ASRs (Cumulative Results)

						Cumulative 19th Highest 1-hour Average NO2 (µg/m^3)						
						Receptor Height (in mAG)						
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**4.5**	**7.5**	**10**	**20**	**30**	**40**
A1	TVB City	846210	815485	50,29	5.3	127.15	125.71	121.28	119.86	106.98	93.55	-
A2	TVB City	846105	815495	50,29	5.3	120.94	120.35	116.92	115.65	107.62	94.69	-
A3	HAESL	846091	815718	50,29	5.3	109.45	107.88	106.39	106.12	102.27	90.79	-
A4	TVB City	846260	815786	50,29	6.1	106.03	105.96	105.36	104.56	97.78	84.61	-
A5	HAESL Component Overhaul Building	846139	815840	50,29	5.8	104.92	104.79	104.22	103.76	98.55	89.05	-
A6	Digital Savvis Investment	846325	815907	50,29	9.5	104.99	101.13	99.27	98.34	89.62	81.91	-
A7	Trade Development Council	845881	815903	50,29	7.7	97.84	96.64	96.13	95.60	93.02	-	-
A8	Office Building of SENT Landfill Extension	846390	814682	50,28	5.0	165.70	164.55	-	-	-	-	-
A9	Office Building of Desalination Plant	846623	814066	50,27	5.0	116.99	120.86	124.05	120.71	128.87	102.05	79.87
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	846274	815126	50,28	5.9	153.12	-	-	-	-	-	-
					AQO Criterion	**200**	**200**	**200**	**200**	**200**	**200**	**200**
					Max % relative to AQO Criterion	82.85%	82.27%	62.02%	60.35%	64.44%	51.02%	39.94%

						Cumulative Annual Average NO2 (µg/m^3)						
						Receptor Height (in mAG)						
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**4.5**	**7.5**	**10**	**20**	**30**	**40**
A1	TVB City	846210	815485	50,29	5.3	24.42	23.51	21.77	20.47	17.50	16.31	-
A2	TVB City	846105	815495	50,29	5.3	20.00	19.81	19.44	19.15	17.81	16.53	-
A3	HAESL	846091	815718	50,29	5.3	21.00	19.55	17.68	17.02	15.90	15.21	-
A4	TVB City	846260	815786	50,29	6.1	22.54	21.78	20.22	18.94	15.96	15.11	-
A5	HAESL Component Overhaul Building	846139	815840	50,29	5.8	21.01	19.64	17.87	17.17	15.92	15.82	-
A6	Digital Savvis Investment	846325	815907	50,29	9.5	23.89	22.04	18.74	17.22	15.61	15.38	-
A7	Trade Development Council	845881	815903	50,29	7.7	15.05	14.94	14.83	14.69	14.26	-	-
A8	Office Building of SENT Landfill Extension	846390	814682	50,28	5.0	23.52	23.53	-	-	-	-	-
A9	Office Building of Desalination Plant	846623	814066	50,27	5.0	18.71	18.73	18.74	18.68	16.94	14.98	13.88
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	846274	815126	50,28	5.9	23.01	-	-	-	-	-	-
					AQO Criterion	**40**	**40**	**40**	**40**	**40**	**40**	**40**
					Max % relative to AQO Criterion	61.04%	58.84%	54.43%	51.18%	44.54%	41.33%	34.69%

Appendix I - Predicted Pollutant Concentrations at ASRs (Cumulative Results)

						Cumulative 4th Highest 10-min Average SO2 (µg/m^3)						
						Receptor Height (in mAG)						
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**4.5**	**7.5**	**10**	**20**	**30**	**40**
A1	TVB City	846210	815485	50,29	5.3	26.75	26.75	26.75	26.75	26.75	26.75	-
A2	TVB City	846105	815495	50,29	5.3	26.75	26.75	26.75	26.75	26.75	26.75	-
A3	HAESL	846091	815718	50,29	5.3	26.74	26.74	26.74	26.74	26.74	26.74	-
A4	TVB City	846260	815786	50,29	6.1	26.74	26.74	26.74	26.74	26.74	26.74	-
A5	HAESL Component Overhaul Building	846139	815840	50,29	5.8	26.74	26.74	26.74	26.74	26.74	26.74	-
A6	Digital Savvis Investment	846325	815907	50,29	9.5	26.74	26.74	26.74	26.74	26.74	26.74	-
A7	Trade Development Council	845881	815903	50,29	7.7	26.74	26.74	26.74	26.74	26.74	-	-
A8	Office Building of SENT Landfill Extension	846390	814682	50,28	5.0	28.08	28.12	-	-	-	-	-
A9	Office Building of Desalination Plant	846623	814066	50,27	5.0	25.81	25.81	25.81	25.81	25.80	25.80	25.79
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	846274	815126	50,28	5.9	27.45	-	-	-	-	-	-
					AQO Criterion	**500**	**500**	**500**	**500**	**500**	**500**	**500**
					Max % relative to AQO Criterion	5.62%	5.62%	5.35%	5.35%	5.35%	5.35%	5.16%

						Cumulative 4th Highest 24-hour Average SO2 (µg/m^3)						
						Receptor Height (in mAG)						
ASR ID	**ASR Description**	**X**	**Y**	**PATH Grid**	**Base mPD**	**1.5**	**4.5**	**7.5**	**10**	**20**	**30**	**40**
A1	TVB City	846210	815485	50,29	5.3	7.54	7.54	7.53	7.53	7.53	7.53	-
A2	TVB City	846105	815495	50,29	5.3	7.54	7.54	7.53	7.53	7.53	7.53	-
A3	HAESL	846091	815718	50,29	5.3	7.53	7.53	7.53	7.53	7.53	7.53	-
A4	TVB City	846260	815786	50,29	6.1	7.53	7.53	7.53	7.53	7.53	7.53	-
A5	HAESL Component Overhaul Building	846139	815840	50,29	5.8	7.53	7.53	7.53	7.53	7.53	7.53	-
A6	Digital Savvis Investment	846325	815907	50,29	9.5	7.53	7.53	7.53	7.53	7.53	7.53	-
A7	Trade Development Council	845881	815903	50,29	7.7	7.53	7.53	7.53	7.53	7.53	-	-
A8	Office Building of SENT Landfill Extension	846390	814682	50,28	5.0	7.74	7.75	-	-	-	-	-
A9	Office Building of Desalination Plant	846623	814066	50,27	5.0	7.66	7.65	7.64	7.63	7.57	7.52	7.49
A10	Administrative Building of P-Tech Landfill Gas (SENT) Company Limited	846274	815126	50,28	5.9	7.66	-	-	-	-	-	-
					AQO Criterion	**50**	**50**	**50**	**50**	**50**	**50**	**50**
					Max % relative to AQO Criterion	15.48%	15.50%	15.29%	15.27%	15.15%	15.06%	14.97%

APPENDIX J CALCULATION OF NOISE IMPACT ASSESSMENT

Appendix J - Calculation of Noise Impact Assessment

Cumulative Noise Impact

NSR: Island Resort (IR1)			
Operational Activities	**Predicted Noise Levels, $L_{eq(30\text{-}min)}$, dB(A)**		
	Daytime	**Evening**	**Night-time**
Truck Movement within Tseung Kwan O Fill Bank [(a)(b)]	42.8	42.8	38.5
Stockpiling and Tseung Kwan O Basin	52.9	52.9	32.8
C&D Material Sorting Facility	45.4	45.4	--
C&D Material Crushing Facility	48.4	48.4	--
Sub-total	*55.0*	*55.0*	*39.6*
Barging Point NB4 & Sorting Facility NSD	41.5	41.5	41.5
Barging Point NB5 & Sorting Facility NSE	41.8	41.8	41.8
Sub-total	*44.7*	*44.7*	*44.7*
Overall Noise Level due to the Project, dB(A)	**55.4**	**55.4**	**45.8**
Noise Contribution from SENTX, dB(A)	**50**	**50**	**46**
Cumulative Noise Level, dB(A)	**56.5**	**56.5**	**48.9**
Noise Criterion (ANL - 5), dB(A)	**60**	**60**	**50**
Compliance (Yes / No)	**Yes**	**Yes**	**Yes**

Notes:

(a) Truck movement is carried out based on BS 5228 Part 1: 2009. (Refer to Annexes B2-5 and B2-6)

(b) 15% Utilisation rate for loading/unloading activities; 85% Utilisation rate for truck movements remained the same as the approved BCF ERR (October 2011)

Appendix J - Calculation of Noise Impact Assessment

Cumulative Noise Impact

NSR: Lohas Park, Le Prestige Moonlight (LP2)			
Operational Activities	**Predicted Noise Levels, $L_{eq(30\text{-}min)}$, dB(A)**		
	Daytime	**Evening**	**Night-time**
Truck Movement within Tseung Kwan O Fill Bank [(a)(b)]	38.8	38.8	33.7
Stockpiling and Tseung Kwan O Basin	52.9	52.9	31.7
C&D Material Sorting Facility	40.8	40.8	--
C&D Material Crushing Facility	47.1	47.1	--
Sub-total	*54.2*	*54.2*	*35.9*
Barging Point NB4 & Sorting Facility NSD	37.9	37.9	37.9
Barging Point NB5 & Sorting Facility NSE	38.4	38.4	38.4
Sub-total	*41.2*	*41.2*	*41.2*
Overall Noise Level due to the Project, dB(A)	**54.4**	**54.4**	**42.3**
Noise Contribution from SENTX, dB(A)	**53**	**53**	**47**
Cumulative Noise Level, dB(A)	**56.8**	**56.8**	**48.3**
Noise Criterion (ANL - 5), dB(A)	**60**	**60**	**50**
Compliance (Yes / No)	**Yes**	**Yes**	**Yes**

Notes:

(a) Truck movement is carried out based on BS 5228 Part 1: 2009. (Refer to Annexes B2-5 and B2-6)

(b) 15% Utilisation rate for loading/unloading activities; 85% Utilisation rate for truck movements remained the same as the approved BCF ERR (October 2011)

Appendix J - Calculation of Noise Impact Assessment

Cumulative Noise Impact

NSR: Lohas Park, Wings at Sea (LP4)			
Operational Activities	**Predicted Noise Levels, $L_{eq(30\text{-}min)}$, dB(A)**		
	Daytime	**Evening**	**Night-time**
Truck Movement within Tseung Kwan O Fill Bank [(a)(b)]	39.0	39.0	34.0
Stockpiling and Tseung Kwan O Basin	52.5	52.5	31.7
C&D Material Sorting Facility	41.0	41.0	--
C&D Material Crushing Facility	47.6	47.6	--
Sub-total	*54.1*	*54.1*	*36.0*
Barging Point NB4 & Sorting Facility NSD	38.1	38.1	38.1
Barging Point NB5 & Sorting Facility NSE	38.6	38.6	38.6
Sub-total	*41.4*	*41.4*	*41.4*
Overall Noise Level due to the Project, dB(A)	**54.3**	**54.3**	**42.5**
Noise Contribution from SENTX, dB(A)	**53**	**53**	**47**
Cumulative Noise Level, dB(A)	**56.7**	**56.7**	**48.3**
Noise Criterion (ANL - 5), dB(A)	**60**	**60**	**50**
Compliance (Yes / No)	**Yes**	**Yes**	**Yes**

Notes:

(a) Truck movement is carried out based on BS 5228 Part 1: 2009. (Refer to Annexes B2-5 and B2-6)

(b) 15% Utilisation rate for loading/unloading activities; 85% Utilisation rate for truck movements remained the same as the approved BCF ERR (October 2011)

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (Daytime and Evening Period)

Island Resort (IR1)

CNP No.	PME	No. of PME	Unit SWL	On-time %	Distance between Source to NSR	Correction, dB(A)						CNL of individual PME
			dB(A)	%	m	No. of PME [g]	Distance	Barrier	On-time %	Air Absorption [a]	Façade	dB(A)
Stockpiling and TKO Basin												**52.9**
CNP 061	Derrick Barge	3	104	100%	1841	5	-73.3	0	0.0	-5.2	3	33.3
CNP 221	Tug Boat	3	110	50%	1841	5	-73.3	0	-3.0	-5.2	3	36.3
CNP 067	Dump Truck	80	117	15%	2088	19	-74.4	0	-8.2	-5.8	3	50.5
CNP 030	Bulldozer	5	115	100%	2088	7	-74.4	0	0.0	-5.8	3	44.7
CNP 081	Excavator/Loader	6	112	100%	2088	8	-74.4	0	0.0	-5.8	3	42.5
CNP 186	Roller	3	108	100%	2088	5	-74.4	0	0.0	-5.8	3	35.5
CNP 141	Water Lorry	7	112	100%	2088	8	-74.4	0	0.0	-5.8	3	43.2
CNP 103	Generator	18	95	100%	2402	13	-75.6	0	0.0	-6.7	3	28.2
CNP 050	Compactor	2	105	100%	2088	3	-74.4	0	0.0	-5.8	3	30.8
C&D Material Sorting Facility												**45.4**
CNP 081	Excavator/Loader	4	112	100%	2395	6	-75.6	0	0.0	-6.7	3	38.7
CNP 103	Generator	2	95	100%	2395	3	-75.6	0	0.0	-6.7	3	18.7
CNP 141	Grab Lorry	1	112	100%	2395	0	-75.6	0	0.0	-6.7	3	32.7
CNP 141	Water Lorry	1	112	50%	2395	0	-75.6	0	-3.0	-6.7	3	29.7
CNP 067	Dump Truck	8	117	50%	2395	9	-75.6	0	-3.0	-6.7	3	43.7
--	Sorting Facility [c]	1	109	100%	2395	0	-75.6	0	0.0	-6.7	3	29.7
C&D Material Crushing Facility												**48.4**
CNP 081	Excavator/Loader	6	112	100%	1996	8	-74.0	0	0.0	-5.6	3	43.2
CNP 103	Generator	1	95	100%	1996	0	-74.0	0	0.0	-5.6	3	18.4
CNP 067	Dump Truck	12	117	15%	1996	11	-74.0	0	-8.2	-5.6	3	43.0
--	Jaw Crusher [e]	4	115	100%	1996	6	-74.0	0	0.0	-5.6	3	44.4
--	Cone Crusher [f]	1	96	100%	1996	0	-74.0	0	0.0	-5.6	3	19.1
--	Impact Crusher [f]	1	91	100%	1996	0	-74.0	0	0.0	-5.6	3	14.0
--	Screening Machine [f]	1	94	100%	1996	0	-74.0	0	0.0	-5.6	3	17.4
NB4 & NSD												**41.5**
CNP 101	Generator	1	108	100%	1978	0	-73.9	0	0.0	-5.5	3	31.5
CNP 068	Dump Truck [d]	15	105	15%	2000	12	-74.0	-10	-8.2	-5.6	3	21.9
CNP 081	Excavator	3	112	100%	2000	5	-74.0	0	0.0	-5.6	3	40.2
CNP 061	Derrick Barge	1	104	100%	1935	0	-73.7	0	0.0	-5.4	3	27.8
--	Sorting Facility [c]	1	109	100%	2000	0	-74.0	0	0.0	-5.6	3	32.4
NB5 & NSE												**41.8**
CNP 101	Generator	1	108	100%	1935	0	-73.7	0	0.0	-5.4	3	31.8
CNP 068	Dump Truck [d]	15	105	15%	1973	12	-73.9	-10	-8.2	-5.5	3	22.1
CNP 081	Excavator	3	112	100%	1973	5	-73.9	0	0.0	-5.5	3	40.3
CNP 061	Derrick Barge	1	104	100%	1891	0	-73.5	0	0.0	-5.3	3	28.2
--	Sorting Facility [c]	1	109	100%	1973	0	-73.9	0	0.0	-5.5	3	32.6

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (Daytime and Evening Period)

Lohas Park, Le Prestige Moonlight (LP2)

CNP No.	PME	No. of PME	Unit SWL	On-time %	Distance between Source to NSR	Correction, dB(A)						CNL of individual PME
			dB(A)	%	m	No. of PME [g]	Distance	Barrier	On-time %	Air Absorption [a]	Façade	dB(A)
Stockpiling and TKO Basin												**52.9**
CNP 061	Derrick Barge	3	104	100%	2137	5	-74.6	0	0.0	-6.0	3	31.2
CNP 221	Tug Boat	3	110	50%	2137	5	-74.6	0	-3.0	-6.0	3	34.2
CNP 067	Dump Truck	80	117	15%	2087	19	-74.4	0	-8.2	-5.8	3	50.6
CNP 030	Bulldozer	5	115	100%	2087	7	-74.4	0	0.0	-5.8	3	44.8
CNP 081	Excavator/Loader	6	112	100%	2087	8	-74.4	0	0.0	-5.8	3	42.5
CNP 186	Roller	3	108	100%	2087	5	-74.4	0	0.0	-5.8	3	35.5
CNP 141	Water Lorry	7	112	100%	2087	8	-74.4	0	0.0	-5.8	3	43.2
CNP 103	Generator	18	95	100%	1859	13	-73.4	0	0.0	-5.2	3	32.0
CNP 050	Compactor	2	105	100%	2087	3	-74.4	0	0.0	-5.8	3	30.8
C&D Material Sorting Facility												**40.8**
CNP 081	Excavator/Loader	4	112	100%	3168	6	-78.0	0	0.0	-8.9	3	34.1
CNP 103	Generator	2	95	100%	3168	3	-78.0	0	0.0	-8.9	3	14.1
CNP 141	Grab Lorry	1	112	100%	3168	0	-78.0	0	0.0	-8.9	3	28.1
CNP 141	Water Lorry	1	112	50%	3168	0	-78.0	0	-3.0	-8.9	3	25.1
CNP 067	Dump Truck	8	117	50%	3168	9	-78.0	0	-3.0	-8.9	3	39.1
--	Sorting Facility [c]	1	109	100%	3168	0	-78.0	0	0.0	-8.9	3	25.1
C&D Material Crushing Facility												**47.1**
CNP 081	Excavator/Loader	6	112	100%	2173	8	-74.7	0	0.0	-6.1	3	42.0
CNP 103	Generator	1	95	100%	2173	0	-74.7	0	0.0	-6.1	3	17.2
CNP 067	Dump Truck	12	117	15%	2173	11	-74.7	0	-8.2	-6.1	3	41.7
--	Jaw Crusher [e]	4	115	100%	2173	6	-74.7	0	0.0	-6.1	3	43.2
--	Cone Crusher [f]	1	96	100%	2173	0	-74.7	0	0.0	-6.1	3	17.9
--	Impact Crusher [f]	1	91	100%	2173	0	-74.7	0	0.0	-6.1	3	12.8
--	Screening Machine [f]	1	94	100%	2173	0	-74.7	0	0.0	-6.1	3	16.2
NB4 & NSD												**37.9**
CNP 101	Generator	1	108	100%	2620	0	-76.4	0	0.0	-7.3	3	27.3
CNP 068	Dump Truck	15	105	15%	2641	12	-76.4	0	-8.2	-7.4	3	27.7
CNP 081	Excavator	3	112	100%	2598	5	-76.3	0	0.0	-7.3	3	36.2
CNP 061	Derrick Barge	1	104	100%	2652	0	-76.5	0	0.0	-7.4	3	23.1
--	Sorting Facility [c]	1	109	100%	2598	0	-76.3	0	0.0	-7.3	3	28.4
NB5 & NSE												**38.4**
CNP 101	Generator	1	108	100%	2533	0	-76.1	0	0.0	-7.1	3	27.8
CNP 068	Dump Truck	15	105	15%	2641	12	-76.4	0	-8.2	-7.4	3	27.7
CNP 081	Excavator	3	112	100%	2522	5	-76.0	0	0.0	-7.1	3	36.7
CNP 061	Derrick Barge	1	104	100%	2543	0	-76.1	0	0.0	-7.1	3	23.8
--	Sorting Facility [c]	1	109	100%	2522	0	-76.0	0	0.0	-7.1	3	28.9

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (Daytime and Evening Period)

Lohas Park, Wings at Sea (LP4)

CNP No.	PME	No. of PME	Unit SWL	On-time %	Distance between Source to NSR	Correction, dB(A)						CNL of individual PME
			dB(A)	%	m	No. of PME (g)	Distance	Barrier	On-time %	Air Absorption(a)	Façade	dB(A)
Stockpiling and TKO Basin												**52.5**
CNP 061	Derrick Barge	3	104	100%	2109	5	-74.5	0	0.0	-5.9	3	31.4
CNP 221	Tug Boat	3	110	50%	2109	5	-74.5	0	-3.0	-5.9	3	34.4
CNP 067	Dump Truck	80	117	15%	2134	19	-74.6	0	-8.2	-6.0	3	50.2
CNP 030	Bulldozer	5	115	100%	2134	7	-74.6	0	0.0	-6.0	3	44.4
CNP 081	Excavator/Loader	6	112	100%	2134	8	-74.6	0	0.0	-6.0	3	42.2
CNP 186	Roller	3	108	100%	2134	5	-74.6	0	0.0	-6.0	3	35.2
CNP 141	Water Lorry	7	112	100%	2134	8	-74.6	0	0.0	-6.0	3	42.9
CNP 103	Generator	18	95	100%	1858	13	-73.4	0	0.0	-5.2	3	32.0
CNP 050	Compactor	2	105	100%	2134	3	-74.6	0	0.0	-6.0	3	30.4
C&D Material Sorting Facility												**41.0**
CNP 081	Excavator/Loader	4	112	100%	3139	6	-77.9	0	0.0	-8.8	3	34.3
CNP 103	Generator	2	95	100%	3139	3	-77.9	0	0.0	-8.8	3	14.3
CNP 141	Grab Lorry	1	112	100%	3139	0	-77.9	0	0.0	-8.8	3	28.3
CNP 141	Water Lorry	1	112	50%	3139	0	-77.9	0	-3.0	-8.8	3	25.3
CNP 067	Dump Truck	8	117	50%	3139	9	-77.9	0	-3.0	-8.8	3	39.3
--	Sorting Facility (c)	1	109	100%	3139	0	-77.9	0	0.0	-8.8	3	25.3
C&D Material Crushing Facility												**47.6**
CNP 081	Excavator/Loader	6	112	100%	2101	8	-74.5	0	0.0	-5.9	3	42.4
CNP 103	Generator	1	95	100%	2101	0	-74.5	0	0.0	-5.9	3	17.7
CNP 067	Dump Truck	12	117	15%	2101	11	-74.5	0	-8.2	-5.9	3	42.2
--	Jaw Crusher (e)	4	115	100%	2101	6	-74.5	0	0.0	-5.9	3	43.7
--	Cone Crusher (f)	1	96	100%	2101	0	-74.5	0	0.0	-5.9	3	18.4
--	Impact Crusher (f)	1	91	100%	2101	0	-74.5	0	0.0	-5.9	3	13.3
--	Screening Machine (f)	1	94	100%	2101	0	-74.5	0	0.0	-5.9	3	16.7
NB4 & NSD												**38.1**
CNP 101	Generator	1	108	100%	2578	0	-76.2	0	0.0	-7.2	3	27.6
CNP 068	Dump Truck	15	105	15%	2592	12	-76.3	0	-8.2	-7.3	3	28.0
CNP 081	Excavator	3	112	100%	2578	5	-76.2	0	0.0	-7.2	3	36.3
CNP 061	Derrick Barge	1	104	100%	2626	0	-76.4	0	0.0	-7.4	3	23.3
--	Sorting Facility (c)	1	109	100%	2578	0	-76.2	0	0.0	-7.2	3	28.6
NB5 & NSE												**38.6**
CNP 101	Generator	1	108	100%	2485	0	-75.9	0	0.0	-7.0	3	28.1
CNP 068	Dump Truck	15	105	15%	2592	12	-76.3	0	-8.2	-7.3	3	28.0
CNP 081	Excavator	3	112	100%	2485	5	-75.9	0	0.0	-7.0	3	36.9
CNP 061	Derrick Barge	1	104	100%	2513	0	-76.0	0	0.0	-7.0	3	24.0
--	Sorting Facility (c)	1	109	100%	2485	0	-75.9	0	0.0	-7.0	3	29.1

Remarks:

(a) Air Absorption = 2.8dB(A) per 1000m.

(b) Calculation is developed based on the approved ER 2008 Report (May 2008).

(c) SWL of sorting facility is with reference to the approved EIA Report for TKOFB (Register No.: AEIAR-060/2002) which includes vibrating feeder, magnetic separator and conveyor belts.

(d) Substantial noise barrier will be erected to totally screen the operation of dump truck such that none of PME will be visible when viewed from the NSR. A negative correction factor of 10dB(A) is applied in the assessment.

(e) SWL of jaw crusher is with reference to the approved EIA Report for TKOFB (Register No.: AEIAR-060/2002).

(f) SWL of cone crusher, impact crusher and screening machine are referenced from the technical specification sheets provided by CEDD.

(g) Correction for No. of PME = 10log(No. of PME)

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (Night-time Period)

Island Resort (IR1)

CNP No.	PME	No. of PME	Unit SWL	On-time %	Distance between Source to NSR	Correction, dB(A)						CNL of individual PME
			dB(A)	%	m	No. of PME (e)	Distance	Barrier	On-time %	Air Absorption(a)	Façade	dB(A)
Stockpiling and TKO Basin												**32.8**
CNP 141	Water Lorry	1	112	15%	2088	0	-74.4	0	-8.2	-5.8	3	26.5
CNP 103	Generator	2	95	100%	2402	3	-75.6	0	0.0	-6.7	3	18.7
CNP 061	Derrick Barge	3	104	65%	1841	5	-73.3	0	-1.9	-5.2	3	31.4
NB4 & NSD												**41.5**
CNP 101	Generator	1	108	100%	1978	0	-73.9	0	0.0	-5.5	3	31.5
CNP 068	Dump Truck (d)	15	105	15%	2000	12	-74.0	-10	-8.2	-5.6	3	21.9
CNP 081	Excavator	3	112	100%	2000	5	-74.0	0	0.0	-5.6	3	40.2
CNP 061	Derrick Barge	1	104	100%	1935	0	-73.7	0	0.0	-5.4	3	27.8
--	Sorting Facility (c)	1	109	100%	2000	0	-74.0	0	0.0	-5.6	3	32.4
NB5 & NSE												**41.8**
CNP 101	Generator	1	108	100%	1935	0	-73.7	0	0.0	-5.4	3	31.8
CNP 068	Dump Truck (d)	15	105	15%	1973	12	-73.9	-10	-8.2	-5.5	3	22.1
CNP 081	Excavator	3	112	100%	1973	5	-73.9	0	0.0	-5.5	3	40.3
CNP 061	Derrick Barge	1	104	100%	1891	0	-73.5	0	0.0	-5.3	3	28.2
--	Sorting Facility (c)	1	109	100%	1973	0	-73.9	0	0.0	-5.5	3	32.6

Lohas Park, Le Prestige Moonlight (LP2)

CNP No.	PME	No. of PME	Unit SWL	On-time %	Distance between Source to NSR	Correction, dB(A)						CNL of individual PME
			dB(A)	%	m	No. of PME (e)	Distance	Barrier	On-time %	Air Absorption(a)	Façade	dB(A)
Stockpiling and TKO Basin												**31.7**
CNP 141	Water Lorry	1	112	15%	2087	0	-74.4	0	-8.2	-5.8	3	26.5
CNP 103	Generator	2	95	100%	1859	3	-73.4	0	0.0	-5.2	3	22.4
CNP 061	Derrick Barge	3	104	65%	2137	5	-74.6	0	-1.9	-6.0	3	29.3
NB4 & NSD												**37.9**
CNP 101	Generator	1	108	100%	2620	0	-76.4	0	0.0	-7.3	3	27.3
CNP 068	Dump Truck	15	105	15%	2641	12	-76.4	0	-8.2	-7.4	3	27.7
CNP 081	Excavator	3	112	100%	2598	5	-76.3	0	0.0	-7.3	3	36.2
CNP 061	Derrick Barge	1	104	100%	2652	0	-76.5	0	0.0	-7.4	3	23.1
--	Sorting Facility (c)	1	109	100%	2598	0	-76.3	0	0.0	-7.3	3	28.4
NB5 & NSE												**38.4**
CNP 101	Generator	1	108	100%	2533	0	-76.1	0	0.0	-7.1	3	27.8
CNP 068	Dump Truck	15	105	15%	2641	12	-76.4	0	-8.2	-7.4	3	27.7
CNP 081	Excavator	3	112	100%	2522	5	-76.0	0	0.0	-7.1	3	36.7
CNP 061	Derrick Barge	1	104	100%	2543	0	-76.1	0	0.0	-7.1	3	23.8
--	Sorting Facility (c)	1	109	100%	2522	0	-76.0	0	0.0	-7.1	3	28.9

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (Night-time Period)

Lohas Park, Wings at Sea (LP4)

CNP No.	PME	No. of PME	Unit SWL	On-time %	Distance between Source to NSR	Correction, dB(A)						CNL of individual PME
			dB(A)	%	m	No. of PME (e)	Distance	Barrier	On-time %	Air Absorption(a)	Façade	dB(A)
Stockpiling and TKO Basin												**31.7**
CNP 141	Water Lorry	1	112	15%	2134	0	-74.6	0	-8.2	-6.0	3	26.2
CNP 103	Generator	2	95	100%	1858	3	-73.4	0	0.0	-5.2	3	22.4
CNP 061	Derrick Barge	3	104	65%	2109	5	-74.5	0	-1.9	-5.9	3	29.5
NB4 & NSD												**38.1**
CNP 101	Generator	1	108	100%	2578	0	-76.2	0	0.0	-7.2	3	27.6
CNP 068	Dump Truck	15	105	15%	2592	12	-76.3	0	-8.2	-7.3	3	28.0
CNP 081	Excavator	3	112	100%	2578	5	-76.2	0	0.0	-7.2	3	36.3
CNP 061	Derrick Barge	1	104	100%	2626	0	-76.4	0	0.0	-7.4	3	23.3
--	Sorting Facility (c)	1	109	100%	2578	0	-76.2	0	0.0	-7.2	3	28.6
NB5 & NSE												**38.6**
CNP 101	Generator	1	108	100%	2485	0	-75.9	0	0.0	-7.0	3	28.1
CNP 068	Dump Truck	15	105	15%	2592	12	-76.3	0	-8.2	-7.3	3	28.0
CNP 081	Excavator	3	112	100%	2485	5	-75.9	0	0.0	-7.0	3	36.9
CNP 061	Derrick Barge	1	104	100%	2513	0	-76.0	0	0.0	-7.0	3	24.0
--	Sorting Facility (c)	1	109	100%	2485	0	-75.9	0	0.0	-7.0	3	29.1

Remarks:

(a) Air Absorption = 2.8dB(A) per 1000m.

(b) Calculation is developed based on the approved ER 2008 Report (May 2008).

(c) SWL of Sorting Facility is with reference to the approved EIA Report for TKOFB (Register No.: AEIAR-060/2002) which includes vibrating feeder, magnetic separator and conveyor belts.

(d) Substantial noise barrier will be erected to totally screen the operation of dump truck such that none of PME will be visible when viewed from the NSR (refer to the photo under Appendix 4.1). A negative correction factor of 10dB(A) is applied in the assessment.

(e) Correction for No. of PME = 10log(No. of PME)

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (On-site Vehicle Movement) (Daytime and Evening Period)

Calculation of Noise levels at Island Resort (IR1)

Noise Source	Vehicle Type	SWL[a]	Traffic	Parameters			Speed[d]	Correction							CNL[b]
		dB(A)	Q	Hs	Lsr	V	km/h	CLsr	Cv	Cno	Cspd	Csri	Catm[c]	Cfac	dB(A)
R1a_Internal Road	Dump Truck	105	33	2	2501	2	10	-34	-20	15	-10	0	-7	3	19.6
R1b_Internal Road	Dump Truck	105	34	2	2308	4	10	-34	-17	15	-10	0	-6	3	23.5
R2a_Internal Road	Dump Truck	105	188	2	2557	3	10	-34	-18	23	-10	0	-7	3	28.9
R2b_Internal Road	Dump Truck	105	188	2	2491	3	10	-34	-18	23	-10	0	-7	3	28.9
R2c_Internal Road	Dump Truck	105	188	2	2433	5	10	-34	-15	23	-10	0	-7	3	31.9
R2d_Internal Road	Dump Truck	105	188	2	2397	5	10	-34	-15	23	-10	0	-7	3	31.9
R2e_Internal Road	Dump Truck	105	188	2	2419	6	10	-34	-15	23	-10	0	-7	3	32.2
R2f_Internal Road	Dump Truck	105	188	2	2513	10	10	-34	-13	23	-10	0	-7	3	33.9
R3_Internal Road	Dump Truck	105	188	2	2491	1	10	-34	-23	23	-10	0	-7	3	23.9
R4_Internal Road	Dump Truck	105	188	2	2435	1	10	-34	-25	23	-10	0	-7	3	22.4
R5_Internal Road	Dump Truck	105	86	2	2278	2	10	-34	-21	19	-10	0	-6	3	23.6
R6_Internal Road	Dump Truck	105	98	2	2121	3	10	-33	-19	20	-10	0	-6	3	27.2
R7_Internal Road	Dump Truck	105	109	2	2148	6	10	-33	-15	20	-10	0	-6	3	31.3
R8_Internal Road	Dump Truck	105	109	2	1993	4	10	-33	-17	20	-10	0	-6	3	30.1
R9a_Internal Road	Dump Truck	105	182	2	1961	11	10	-33	-12	23	-10	0	-5	3	37.2
R9b_Internal Road	Dump Truck	105	173	2	2102	6	10	-33	-14	22	-10	0	-6	3	33.8
R9c_Internal Road	Dump Truck	105	2	2	2200	2	10	-33	-19	4	-10	0	-6	3	10.4
R11_Internal Road	Dump Truck	105	131	2	2300	3	10	-34	-17	21	-10	0	-6	3	29.0
R11a_Internal Road	Dump Truck	105	183	2	2212	4	10	-33	-17	23	-10	0	-6	3	31.0
R12_Internal Road	Dump Truck	105	53	2	2374	4	10	-34	-17	17	-10	0	-7	3	24.9
											TOTAL				**43.6**

Calculation of Noise levels at Lohas Park, Le Prestige Moonlight (LP2)

Noise Source	Vehicle Type	SWL[a]	Traffic	Parameters			Speed[d]	Correction							CNL[b]
		dB(A)	Q	Hs	Lsr	V	km/h	CLsr	Cv	Cno	Cspd	Csri	Catm[c]	Cfac	dB(A)
R1a_Internal Road	Dump Truck	105	33	2	1694	7	10	-32	-14	15	-10	0	-5	3	29.1
R1b_Internal Road	Dump Truck	105	34	2	1828	2	10	-33	-20	15	-10	0	-5	3	23.1
R2a_Internal Road	Dump Truck	105	188	2	1764	1	10	-32	-25	23	-10	0	-5	3	25.0
R2b_Internal Road	Dump Truck	105	188	2	1913	0	10	-33	-33	23	-10	0	-5	3	16.9
R2c_Internal Road	Dump Truck	105	188	2	2101	0	10	-33	-27	23	-10	0	-6	3	21.9
R2d_Internal Road	Dump Truck	105	188	2	2330	1	10	-34	-23	23	-10	0	-7	3	24.4
R2e_Internal Road	Dump Truck	105	188	2	2559	2	10	-34	-20	23	-10	0	-7	3	26.3
R2f_Internal Road	Dump Truck	105	188	2	2893	2	10	-35	-19	23	-10	0	-8	3	26.0
R3_Internal Road	Dump Truck	105	188	2	3072	4	10	-35	-17	23	-10	0	-9	3	27.4
R4_Internal Road	Dump Truck	105	188	2	3031	2	10	-35	-20	23	-10	0	-8	3	24.5
R5_Internal Road	Dump Truck	105	86	2	3002	4	10	-35	-16	19	-10	0	-8	3	24.7
R6_Internal Road	Dump Truck	105	98	2	2235	3	10	-33	-18	20	-10	0	-6	3	26.8
R7_Internal Road	Dump Truck	105	109	2	2077	0	10	-33	-30	20	-10	0	-6	3	16.8
R8_Internal Road	Dump Truck	105	109	2	2310	3	10	-34	-18	20	-10	0	-6	3	26.8
R9a_Internal Road	Dump Truck	105	182	2	2575	6	10	-34	-15	23	-10	0	-7	3	31.2
R9b_Internal Road	Dump Truck	105	173	2	2855	3	10	-35	-18	22	-10	0	-8	3	27.0
R9c_Internal Road	Dump Truck	105	2	2	3017	1	10	-35	-22	4	-10	0	-8	3	3.3
R11_Internal Road	Dump Truck	105	131	2	2503	4	10	-34	-16	21	-10	0	-7	3	29.0
R11a_Internal Road	Dump Truck	105	183	2	2646	7	10	-34	-14	23	-10	0	-7	3	31.9
R12_Internal Road	Dump Truck	105	53	2	2637	0	10	-34	-30	17	-10	0	-7	3	10.5
											TOTAL				**39.5**

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (On-site Vehicle Movement) (Daytime and Evening Period)

Calculation of Noise levels at Lohas Park, Wings at Sea (LP4)

Noise Source	Vehicle Type	SWL[(a)]	Traffic	Parameters			Speed[(d)]	Correction							CNL[(b)]
		dB(A)	Q	Hs	Lsr	V	km/h	CLsr	Cv	Cno	Cspd	Csri	Catm[(c)]	Cfac	dB(A)
R1a_Internal Road	Dump Truck	105	33	2	1646	7	10	-32	-14	15	-10	0	-5	3	29.4
R1b_Internal Road	Dump Truck	105	34	2	1767	2	10	-32	-20	15	-10	0	-5	3	23.4
R2a_Internal Road	Dump Truck	105	188	2	1725	1	10	-32	-25	23	-10	0	-5	3	25.2
R2b_Internal Road	Dump Truck	105	188	2	1873	0	10	-33	-33	23	-10	0	-5	3	17.1
R2c_Internal Road	Dump Truck	105	188	2	2062	0	10	-33	-27	23	-10	0	-6	3	22.1
R2d_Internal Road	Dump Truck	105	188	2	2292	1	10	-34	-23	23	-10	0	-6	3	24.5
R2e_Internal Road	Dump Truck	105	188	2	2524	2	10	-34	-20	23	-10	0	-7	3	26.5
R2f_Internal Road	Dump Truck	105	188	2	2864	2	10	-35	-19	23	-10	0	-8	3	26.1
R3_Internal Road	Dump Truck	105	188	2	3040	4	10	-35	-17	23	-10	0	-9	3	27.6
R4_Internal Road	Dump Truck	105	188	2	2996	2	10	-35	-20	23	-10	0	-8	3	24.6
R5_Internal Road	Dump Truck	105	86	2	2959	4	10	-35	-16	19	-10	0	-8	3	24.9
R6_Internal Road	Dump Truck	105	98	2	2174	3	10	-33	-18	20	-10	0	-6	3	27.1
R7_Internal Road	Dump Truck	105	109	2	2012	0	10	-33	-30	20	-10	0	-6	3	17.1
R8_Internal Road	Dump Truck	105	109	2	2241	3	10	-34	-18	20	-10	0	-6	3	27.2
R9a_Internal Road	Dump Truck	105	182	2	2511	6	10	-34	-15	23	-10	0	-7	3	31.5
R9b_Internal Road	Dump Truck	105	173	2	2802	3	10	-34	-18	22	-10	0	-8	3	27.2
R9c_Internal Road	Dump Truck	105	2	2	2970	1	10	-35	-22	4	-10	0	-8	3	3.5
R11_Internal Road	Dump Truck	105	131	2	2461	4	10	-34	-16	21	-10	0	-7	3	29.2
R11a_Internal Road	Dump Truck	105	183	2	2599	7	10	-34	-14	23	-10	0	-7	3	32.1
R12_Internal Road	Dump Truck	105	53	2	2600	0	10	-34	-30	17	-10	0	-7	3	10.7
											TOTAL				**39.7**

Remarks:

SWL	- the sound power level of a source, dB(A)
Q	- the number of vehicle per 30min
Lsr	- the horizontal distance between the source and NSR, m
V	- the angle of view of the segment, degree
Hs	- the height of noise source assumed at 1m above ground level, m

CLsr	- correction for slant distance between the source and the NSR, -10log(Lsr)dB(A)
Cv	- correction for angle of view less than 180°, 10log(V/180)dB(A)
Cno	- correction for number of vehicles, 10log(Q)dB(A)
Cspd	- speed correction, -10log(Speed)dB(A)
Csri	- barrier attentuation, dB(A)
Catm	- correction for atmospheric absorption, dB(A)
Cfac	- facade correction, dB(A)
CNL	- corrected noise level, dB(A)(1 hour)

Notes:

(a) Reference is made to SWL provided in the document prepared by the Noise Control Authority (Dump truck, 5.5 tonne < gross vehicle weight <= 38 tonne) (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

(b) Noise calculation from truck movement is carried out in accordance with BS 5228 - Part 1:2009.
Corrected Noise Level (CNL) = SWL - 33 + distance correction + angle correction + correction for number of vehicles +barrier correction + correction for atmospheric absorption + façade correction + speed correction

(c) Air Absorption = 2.8dB(A) per 1000m.

(d) 10km/h of speed limit is adopted in accordance with EP Condition 2.13.

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (On-site Vehicle Movement) (Night-time Period)

Calculation of Noise levels at Island Resort (IR1)

Noise Source	Vehicle Type	SWL[a]	Traffic	Parameters			Speed[d]	Correction							CNL[b]
		dB(A)	Q	Hs	Lsr	V	km/h	CLsr	Cv	Cno	Cspd	Csri	Catm[c]	Cfac	dB(A)
R1a_Internal Road	Dump Truck	105	0	2	2501	2	10	-34	-20	0	-10	0	-7	3	0.0
R1b_Internal Road	Dump Truck	105	0	2	2308	4	10	-34	-17	0	-10	0	-6	3	0.0
R2a_Internal Road	Dump Truck	105	0	2	2557	3	10	-34	-18	0	-10	0	-7	3	0.0
R2b_Internal Road	Dump Truck	105	0	2	2491	3	10	-34	-18	0	-10	0	-7	3	0.0
R2c_Internal Road	Dump Truck	105	0	2	2433	5	10	-34	-15	0	-10	0	-7	3	0.0
R2d_Internal Road	Dump Truck	105	0	2	2397	5	10	-34	-15	0	-10	0	-7	3	0.0
R2e_Internal Road	Dump Truck	105	0	2	2419	6	10	-34	-15	0	-10	0	-7	3	0.0
R2f_Internal Road	Dump Truck	105	0	2	2513	10	10	-34	-13	0	-10	0	-7	3	0.0
R3_Internal Road	Dump Truck	105	0	2	2491	1	10	-34	-23	0	-10	0	-7	3	0.0
R4_Internal Road	Dump Truck	105	0	2	2435	1	10	-34	-25	0	-10	0	-7	3	0.0
R5_Internal Road	Dump Truck	105	0	2	2278	2	10	-34	-21	0	-10	0	-6	3	0.0
R6_Internal Road	Dump Truck	105	53	2	2121	3	10	-33	-19	17	-10	0	-6	3	24.4
R7_Internal Road	Dump Truck	105	105	2	2148	6	10	-33	-15	20	-10	0	-6	3	31.2
R8_Internal Road	Dump Truck	105	105	2	1993	4	10	-33	-17	20	-10	0	-6	3	29.9
R9a_Internal Road	Dump Truck	105	137	2	1961	11	10	-33	-12	21	-10	0	-5	3	36.0
R9b_Internal Road	Dump Truck	105	85	2	2102	6	10	-33	-14	19	-10	0	-6	3	30.7
R9c_Internal Road	Dump Truck	105	0	2	2200	2	10	-33	-19	0	-10	0	-6	3	0.0
R11_Internal Road	Dump Truck	105	53	2	2300	3	10	-34	-17	17	-10	0	-6	3	25.0
R11a_Internal Road	Dump Truck	105	53	2	2212	4	10	-33	-17	17	-10	0	-6	3	25.5
R12_Internal Road	Dump Truck	105	0	2	2374	4	10	-34	-17	0	-10	0	-7	3	0.0
											TOTAL				**39.2**

Calculation of Noise levels at Lohas Park, Le Prestige Moonlight (LP2)

Noise Source	Vehicle Type	SWL[a]	Traffic	Parameters			Speed[d]	Correction							CNL[b]
		dB(A)	Q	Hs	Lsr	V	km/h	CLsr	Cv	Cno	Cspd	Csri	Catm[c]	Cfac	dB(A)
R1a_Internal Road	Dump Truck	105	0	2	1694	7	10	-32	-14	0	-10	0	-5	3	0.0
R1b_Internal Road	Dump Truck	105	0	2	1828	2	10	-33	-20	0	-10	0	-5	3	0.0
R2a_Internal Road	Dump Truck	105	0	2	1764	1	10	-32	-25	0	-10	0	-5	3	0.0
R2b_Internal Road	Dump Truck	105	0	2	1913	0	10	-33	-33	0	-10	0	-5	3	0.0
R2c_Internal Road	Dump Truck	105	0	2	2101	0	10	-33	-27	0	-10	0	-6	3	0.0
R2d_Internal Road	Dump Truck	105	0	2	2330	1	10	-34	-23	0	-10	0	-7	3	0.0
R2e_Internal Road	Dump Truck	105	0	2	2559	2	10	-34	-20	0	-10	0	-7	3	0.0
R2f_Internal Road	Dump Truck	105	0	2	2893	2	10	-35	-19	0	-10	0	-8	3	0.0
R3_Internal Road	Dump Truck	105	0	2	3072	4	10	-35	-17	0	-10	0	-9	3	0.0
R4_Internal Road	Dump Truck	105	0	2	3031	2	10	-35	-20	0	-10	0	-8	3	0.0
R5_Internal Road	Dump Truck	105	0	2	3002	4	10	-35	-16	0	-10	0	-8	3	0.0
R6_Internal Road	Dump Truck	105	53	2	2235	3	10	-33	-18	17	-10	0	-6	3	24.1
R7_Internal Road	Dump Truck	105	105	2	2077	0	10	-33	-30	20	-10	0	-6	3	16.7
R8_Internal Road	Dump Truck	105	105	2	2310	3	10	-34	-18	20	-10	0	-6	3	26.7
R9a_Internal Road	Dump Truck	105	137	2	2575	6	10	-34	-15	21	-10	0	-7	3	30.0
R9b_Internal Road	Dump Truck	105	85	2	2855	3	10	-35	-18	19	-10	0	-8	3	23.9
R9c_Internal Road	Dump Truck	105	0	2	3017	1	10	-35	-22	0	-10	0	-8	3	0.0
R11_Internal Road	Dump Truck	105	53	2	2503	4	10	-34	-16	17	-10	0	-7	3	25.0
R11a_Internal Road	Dump Truck	105	53	2	2646	7	10	-34	-14	17	-10	0	-7	3	26.4
R12_Internal Road	Dump Truck	105	0	2	2637	0	10	-34	-30	0	-10	0	-7	3	0.0
											TOTAL				**34.5**

Appendix J - Calculation of Noise Impact Assessment

Operation Fixed Noise Impact Assessment (On-site Vehicle Movement) (Night-time Period)

Calculation of Noise levels at Lohas Park, Wings at Sea (LP4)

Noise Source	Vehicle Type	SWL[(a)]	Traffic	Parameters			Speed[(d)]	Correction							CNL[(b)]
		dB(A)	Q	Hs	Lsr	V	km/h	CLsr	Cv	Cno	Cspd	Csri	Catm[(c)]	Cfac	dB(A)
R1a_Internal Road	Dump Truck	105	0	2	1646	7	10	-32	-14	0	-10	0	-5	3	0.0
R1b_Internal Road	Dump Truck	105	0	2	1767	2	10	-32	-20	0	-10	0	-5	3	0.0
R2a_Internal Road	Dump Truck	105	0	2	1725	1	10	-32	-25	0	-10	0	-5	3	0.0
R2b_Internal Road	Dump Truck	105	0	2	1873	0	10	-33	-33	0	-10	0	-5	3	0.0
R2c_Internal Road	Dump Truck	105	0	2	2062	0	10	-33	-27	0	-10	0	-6	3	0.0
R2d_Internal Road	Dump Truck	105	0	2	2292	1	10	-34	-23	0	-10	0	-6	3	0.0
R2e_Internal Road	Dump Truck	105	0	2	2524	2	10	-34	-20	0	-10	0	-7	3	0.0
R2f_Internal Road	Dump Truck	105	0	2	2864	2	10	-35	-19	0	-10	0	-8	3	0.0
R3_Internal Road	Dump Truck	105	0	2	3040	4	10	-35	-17	0	-10	0	-9	3	0.0
R4_Internal Road	Dump Truck	105	0	2	2996	2	10	-35	-20	0	-10	0	-8	3	0.0
R5_Internal Road	Dump Truck	105	0	2	2959	4	10	-35	-16	0	-10	0	-8	3	0.0
R6_Internal Road	Dump Truck	105	53	2	2174	3	10	-33	-18	17	-10	0	-6	3	24.4
R7_Internal Road	Dump Truck	105	105	2	2012	0	10	-33	-30	20	-10	0	-6	3	17.0
R8_Internal Road	Dump Truck	105	105	2	2241	3	10	-34	-18	20	-10	0	-6	3	27.0
R9a_Internal Road	Dump Truck	105	137	2	2511	6	10	-34	-15	21	-10	0	-7	3	30.3
R9b_Internal Road	Dump Truck	105	85	2	2802	3	10	-34	-18	19	-10	0	-8	3	24.1
R9c_Internal Road	Dump Truck	105	0	2	2970	1	10	-35	-22	0	-10	0	-8	3	0.0
R11_Internal Road	Dump Truck	105	53	2	2461	4	10	-34	-16	17	-10	0	-7	3	25.2
R11a_Internal Road	Dump Truck	105	53	2	2599	7	10	-34	-14	17	-10	0	-7	3	26.7
R12_Internal Road	Dump Truck	105	0	2	2600	0	10	-34	-30	0	-10	0	-7	3	0.0
								TOTAL							**34.7**

Remarks:

SWL	- the sound power level of a source, dB(A)
Q	- the number of vehicle per 30min
Lsr	- the horizontal distance between the source and NSR, m
V	- the angle of view of the segment, degree
Hs	- the height of noise source assumed at 1m above ground level, m
CLsr	- correction for slant distance between the source and the NSR, -10log(Lsr)dB(A)
Cv	- correction for angle of view less than 180°, 10log(V/180)dB(A)
Cno	- correction for number of vehicles, 10log(Q)dB(A)
Cspd	- speed correction, -10log(Speed)dB(A)
Csri	- barrier attentuation, dB(A)
Catm	- correction for atmospheric absorption, dB(A)
Cfac	- facade correction, dB(A)
CNL	- corrected noise level, dB(A)(1 hour)

Notes:

(a) Reference is made to SWL provided in the document prepared by the Noise Control Authority (Dump truck, 5.5 tonne < gross vehicle weight <= 38 tonne) (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

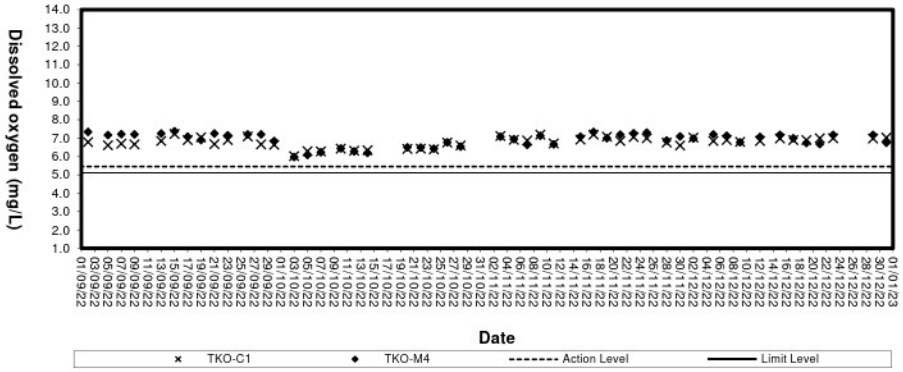
(b) Noise calculation from truck movement is carried out in accordance with BS 5228 - Part 1:2009.
Corrected Noise Level (CNL) = SWL - 33 + distance correction + angle correction + correction for number of vehicles +barrier correction + correction for atmospheric absorption + façade correction + speed correction

(c) Air Absorption = 2.8dB(A) per 1000m.

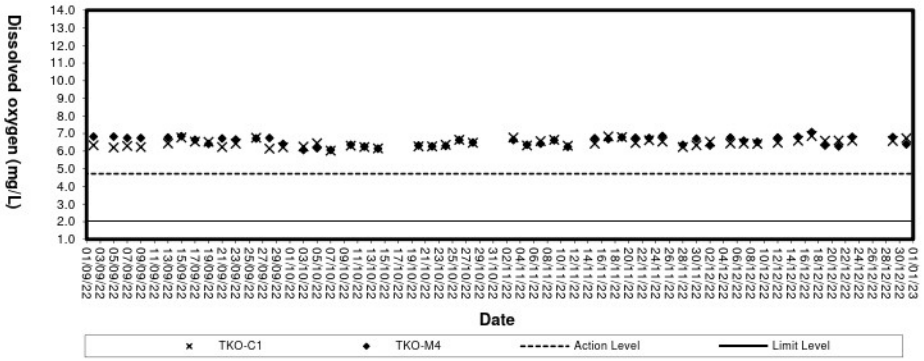
(d) 10km/h of speed limit is adopted in accordance with EP Condition 2.13.

APPENDIX K GRAPHS OF WATER QUALITY MONITORING RESULTS (EXTRACTED FROM EM&A REPORTS)

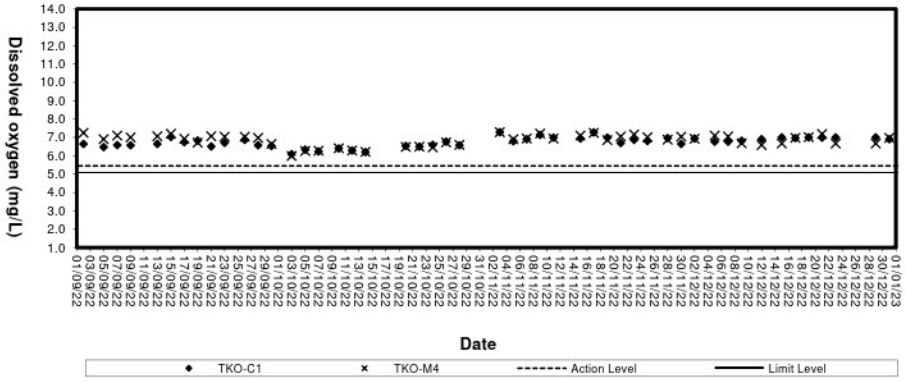
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



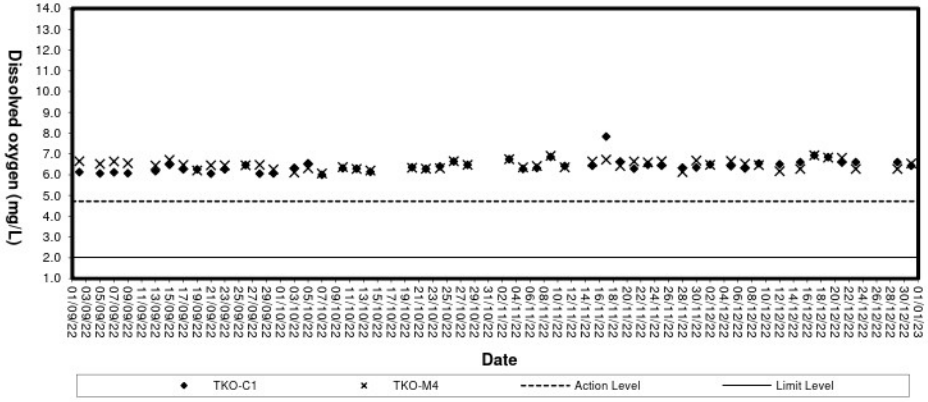
Dissolved Oxygen (Bottom) at Mid-Flood Tide



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide



From Quarterly EM&A Report
(Oct 2022 to Dec 2022)

東業德勤測試顧問有限公司
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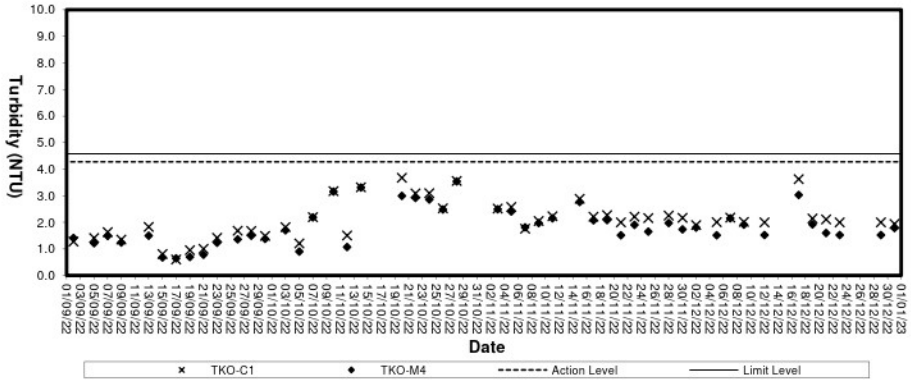
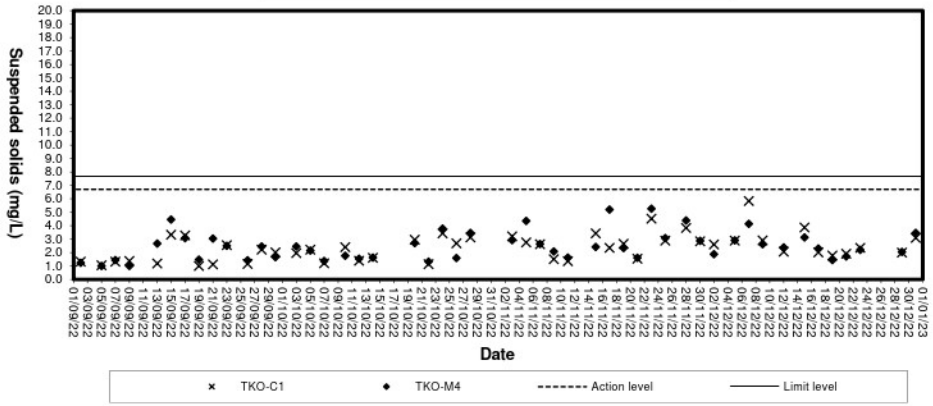
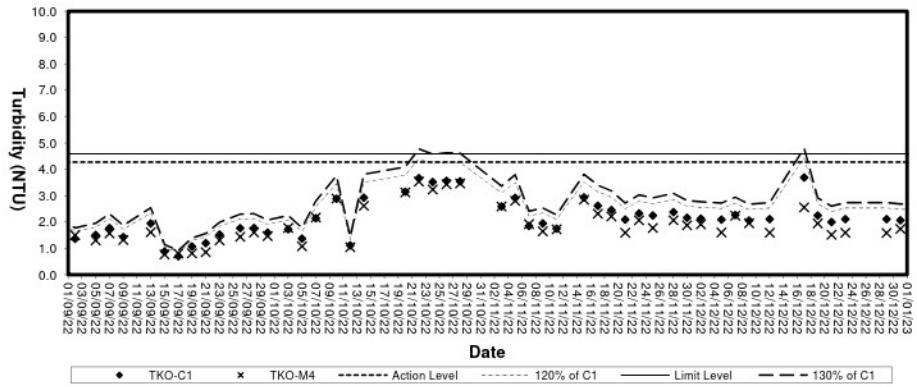
Turbidity (Depth-average) at Mid-Flood Tide



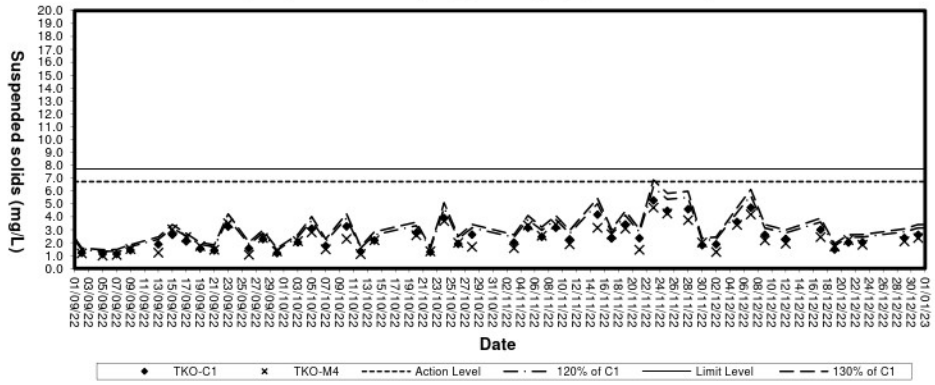
Suspended solids (Depth-average) at Mid-Flood Tide



Turbidity(Depth-average) at Mid-Ebb Tide



Suspended Solids (Depth-average) at Mid-Ebb Tide



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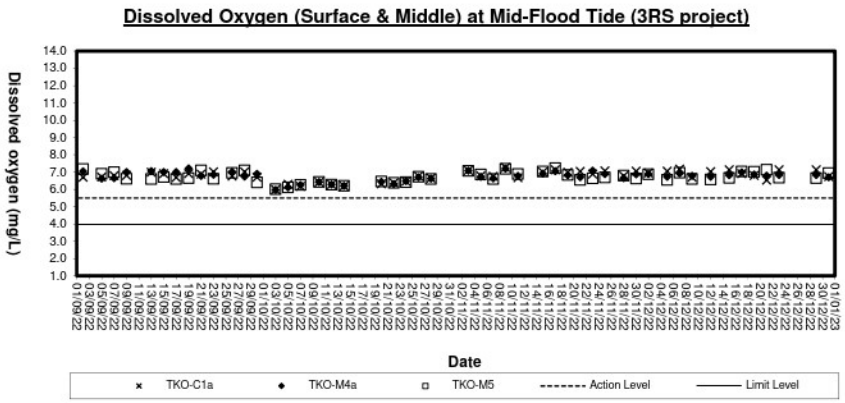

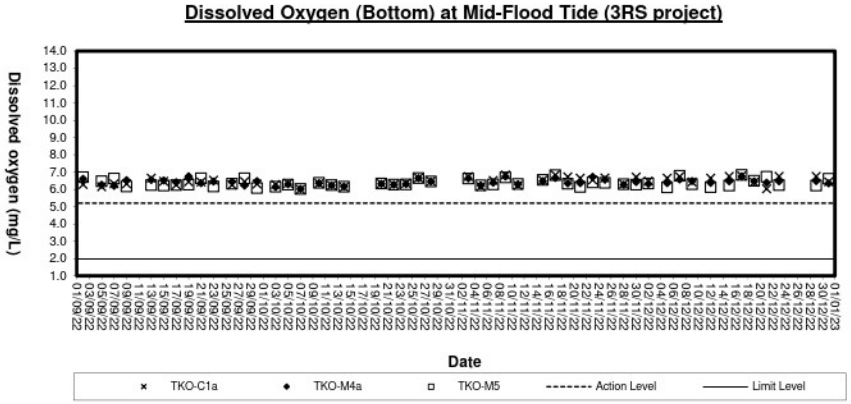

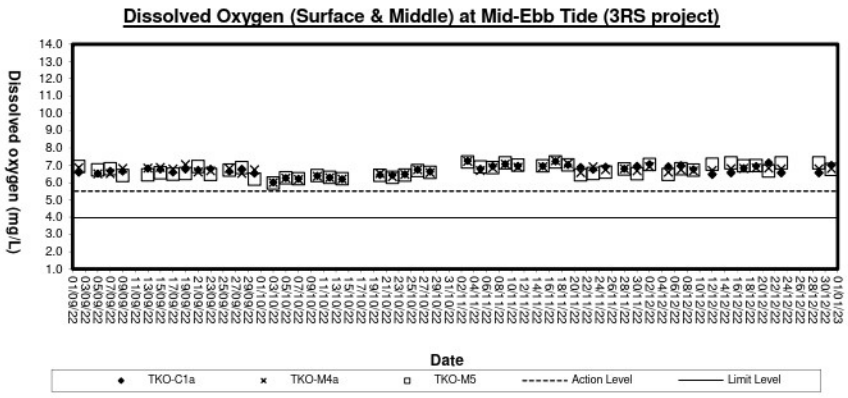

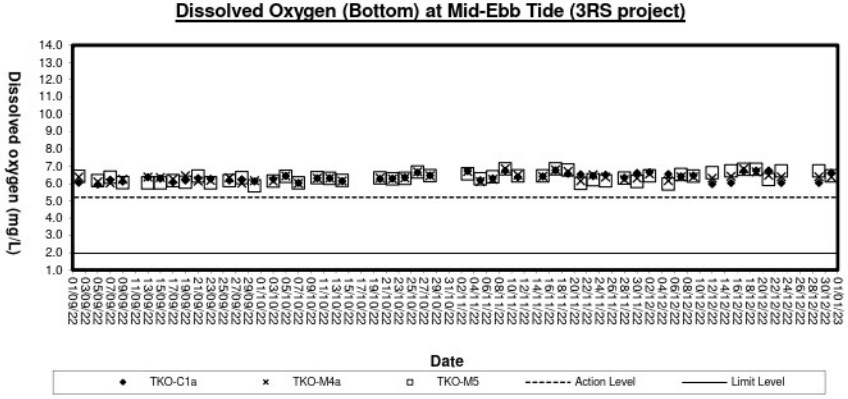

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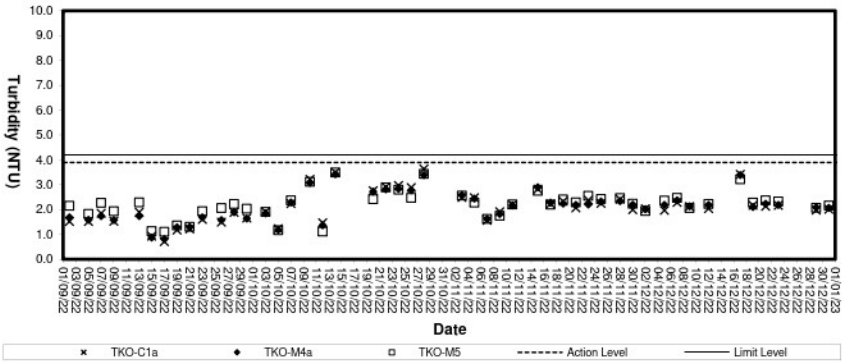
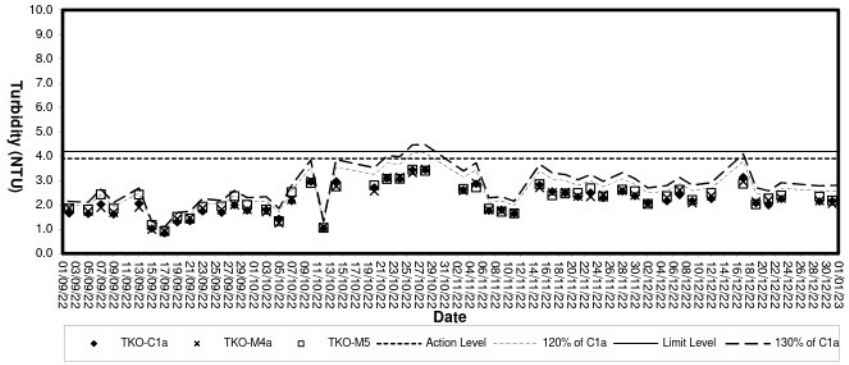
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



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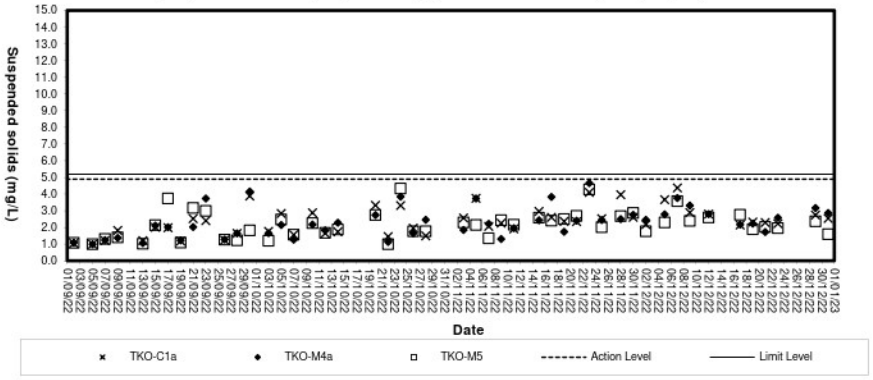
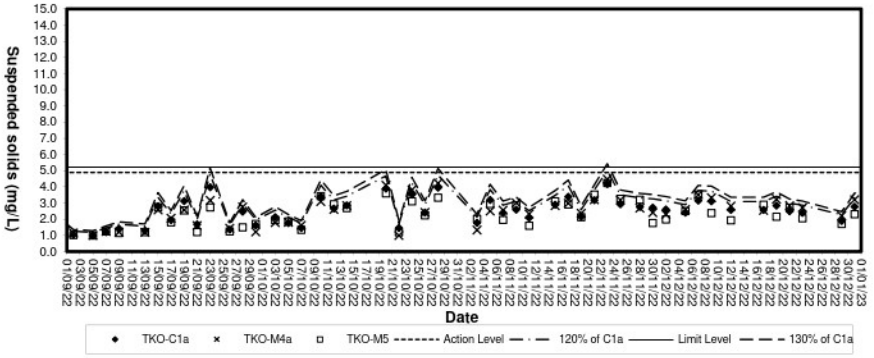
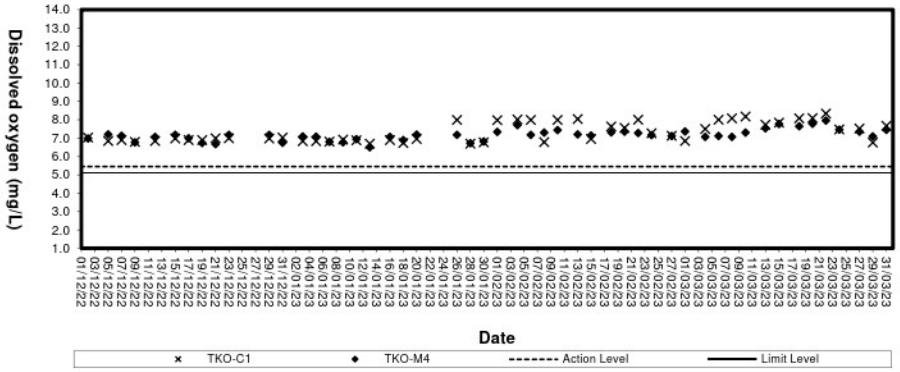
Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



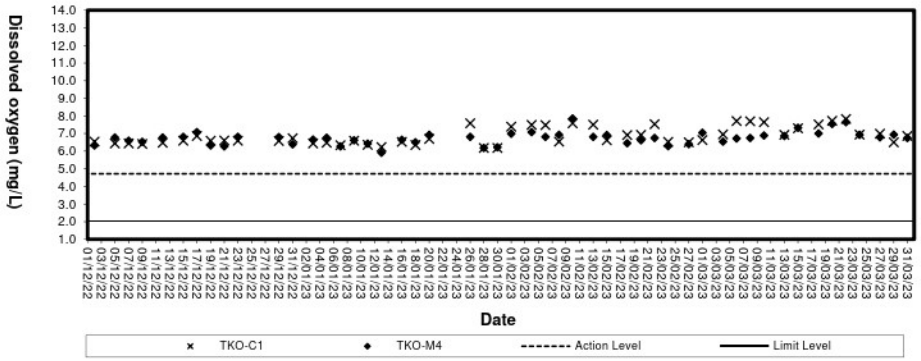
Suspended Solids (Depth-average) at Mid-Ebb Tide (3RS project)



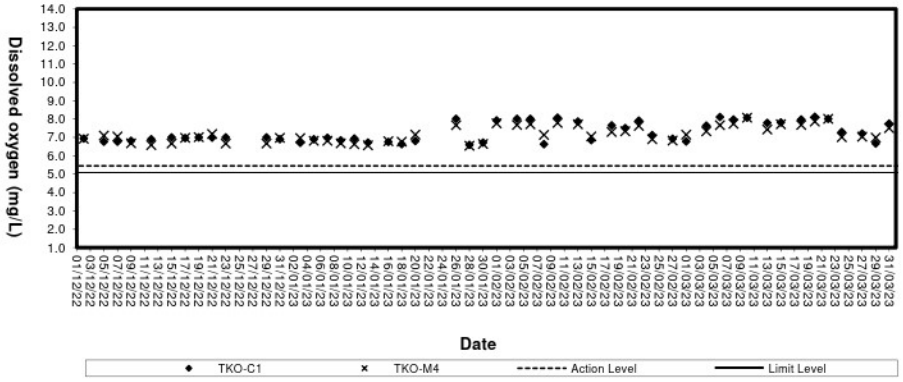
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



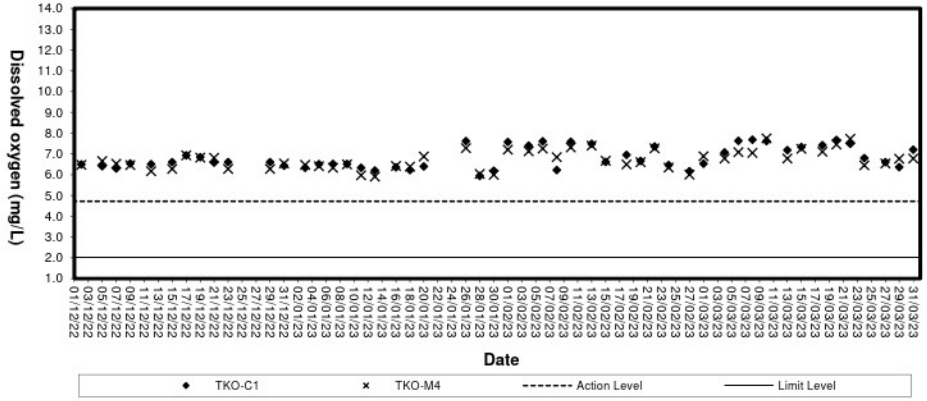
Dissolved Oxygen (Bottom) at Mid-Flood Tide



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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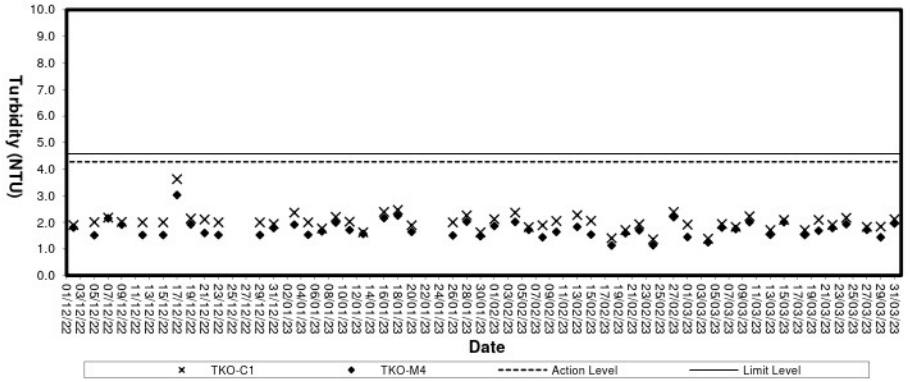
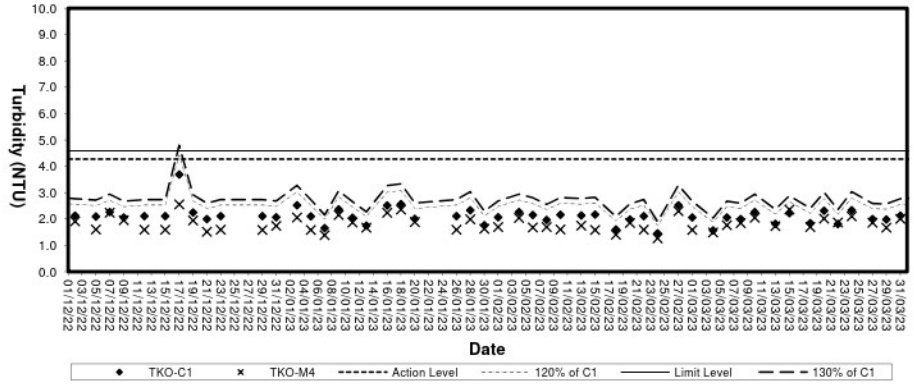
Turbidity (Depth-average) at Mid-Flood Tide



Turbidity(Depth-average) at Mid-Ebb Tide



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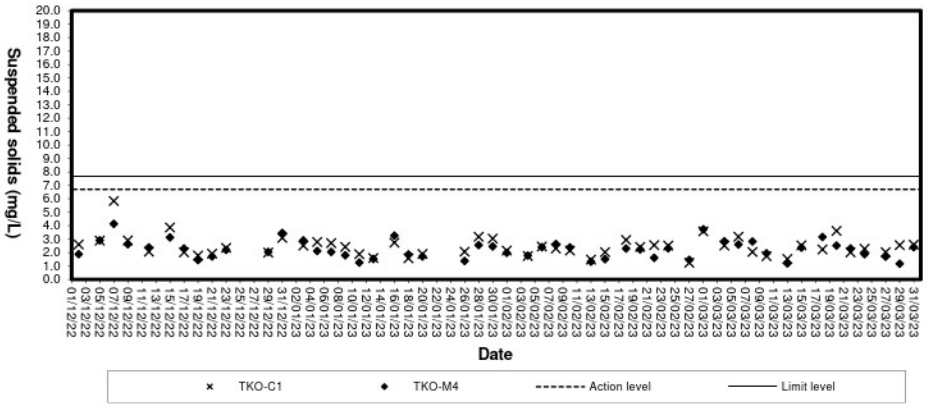
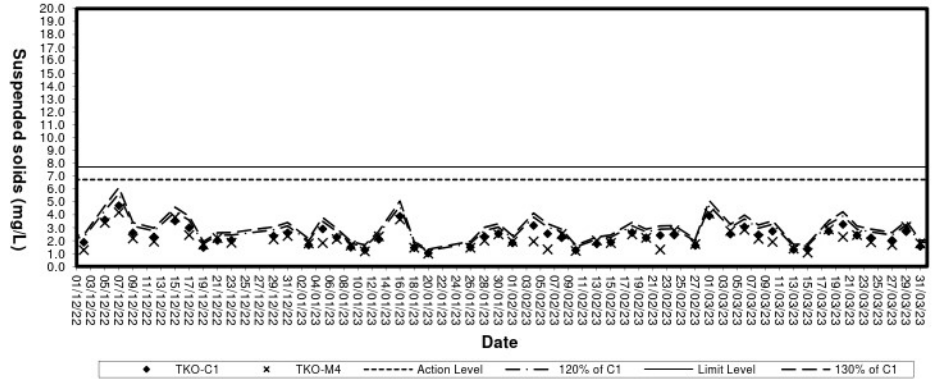
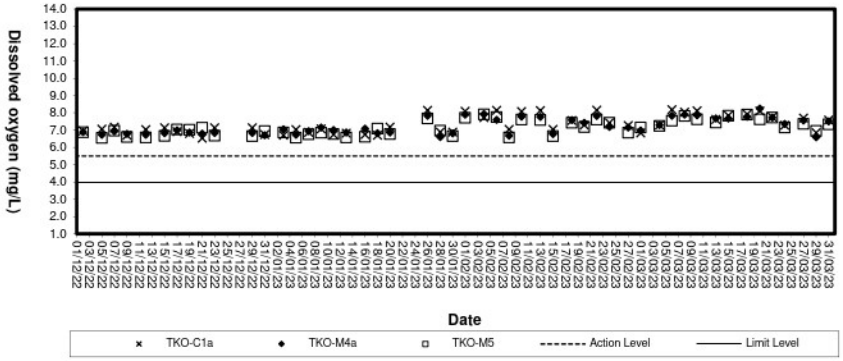
Suspended solids (Depth-average) at Mid-Flood Tide



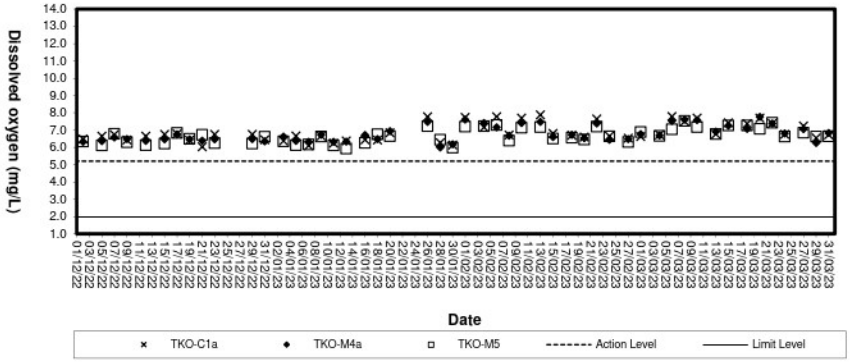
Suspended Solids (Depth-average) at Mid-Ebb Tide



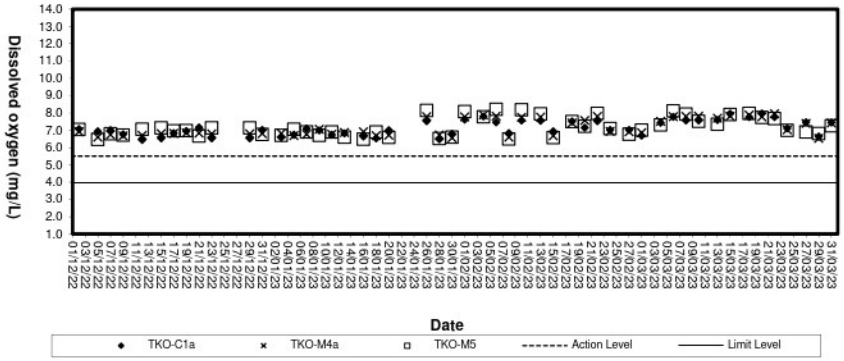
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



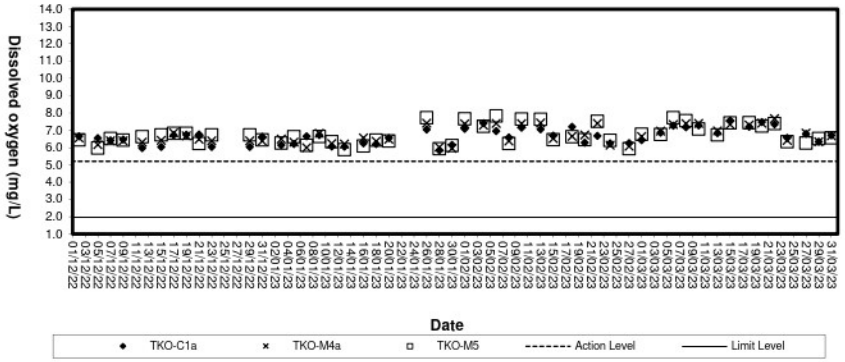
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



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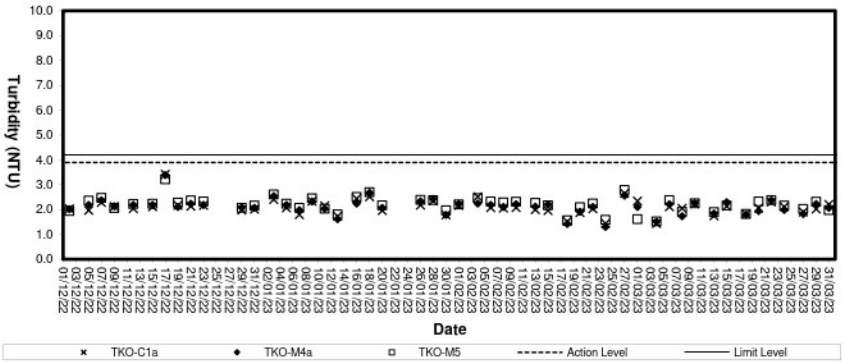
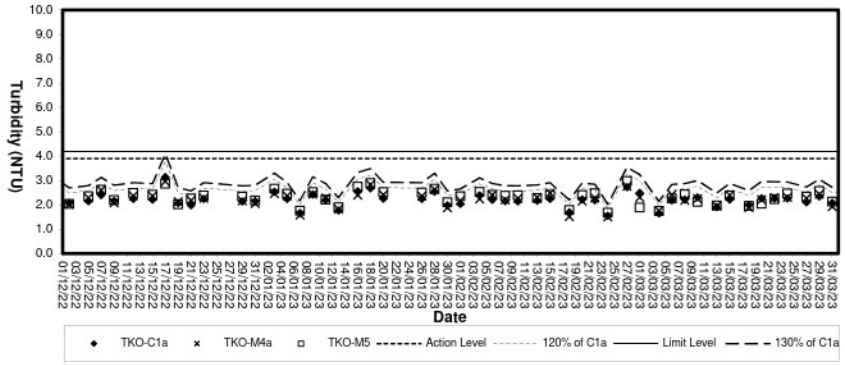
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



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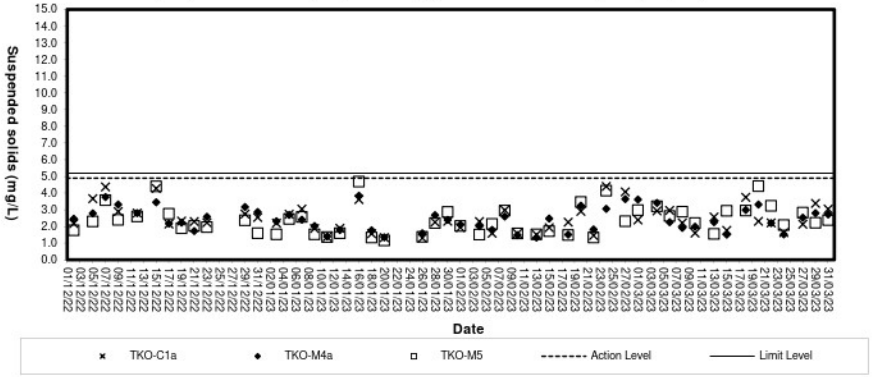
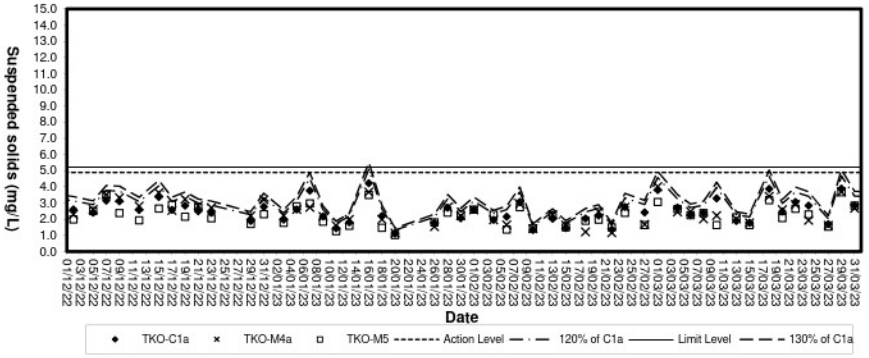
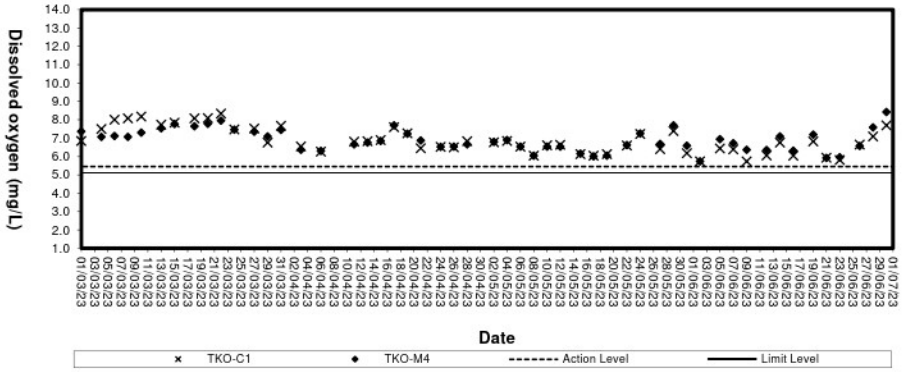
Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



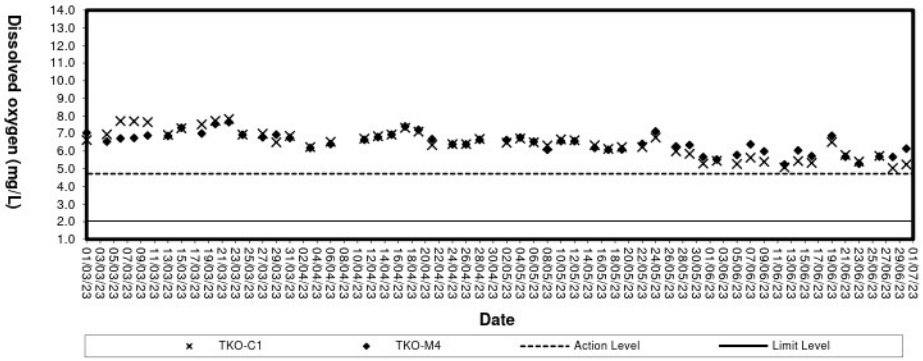
Suspended Solids (Depth-average) at Mid-Ebb Tide (3RS project)



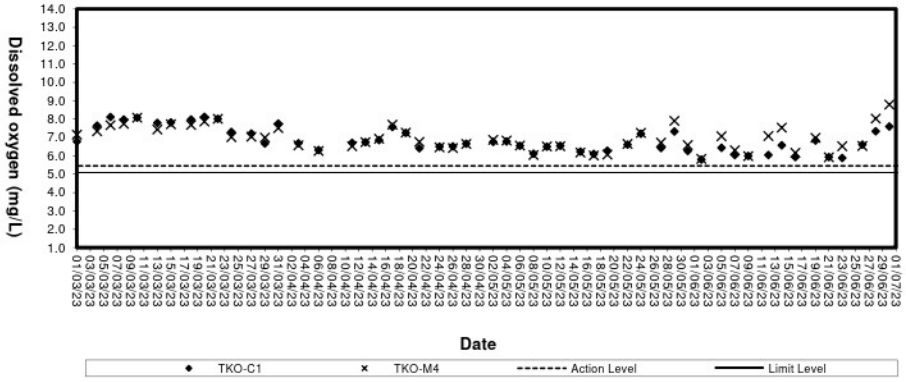
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



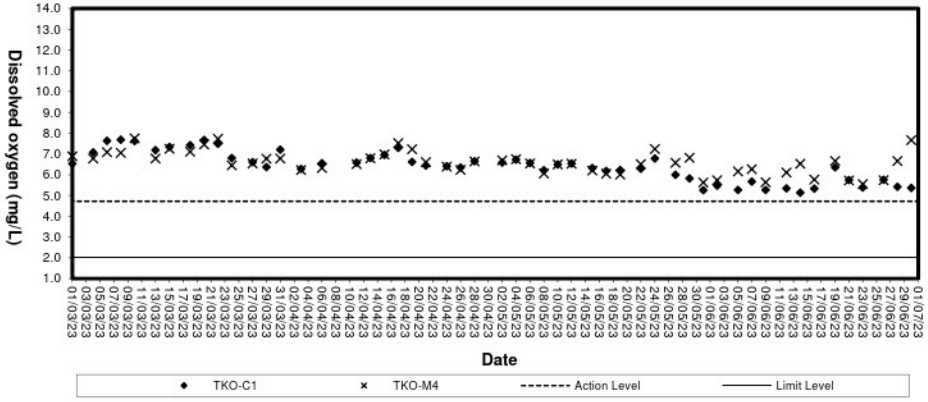
Dissolved Oxygen (Bottom) at Mid-Flood Tide



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide



From Quarterly EM&A Report
(Apr 2023 to Jun 2023)

東業德勤測試顧問有限公司
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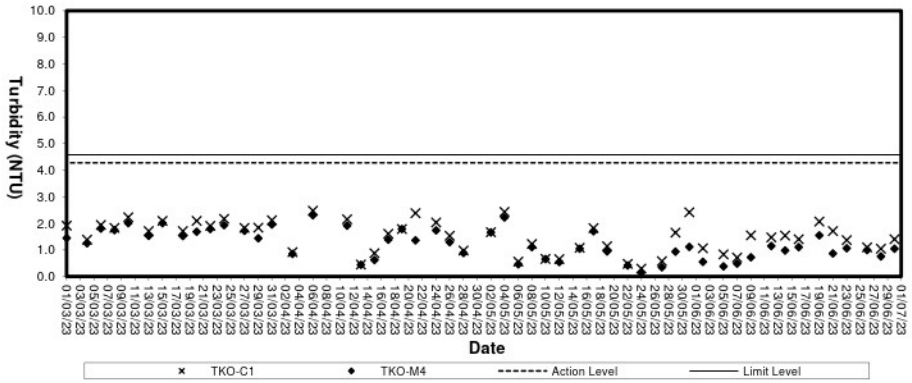
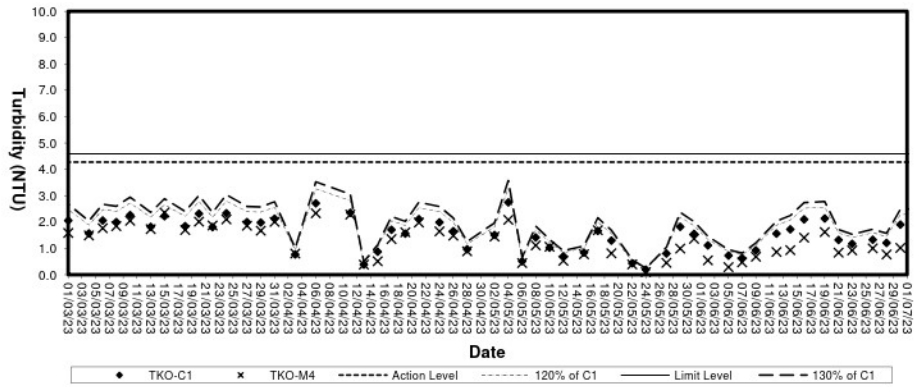
Turbidity (Depth-average) at Mid-Flood Tide



Turbidity(Depth-average) at Mid-Ebb Tide



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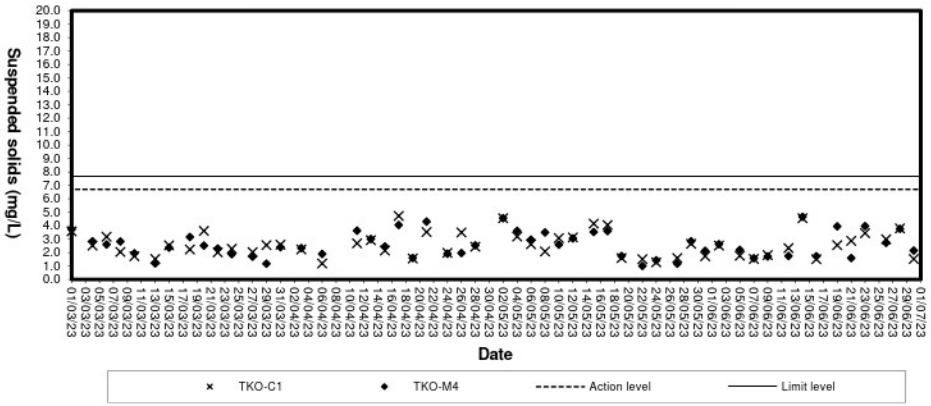
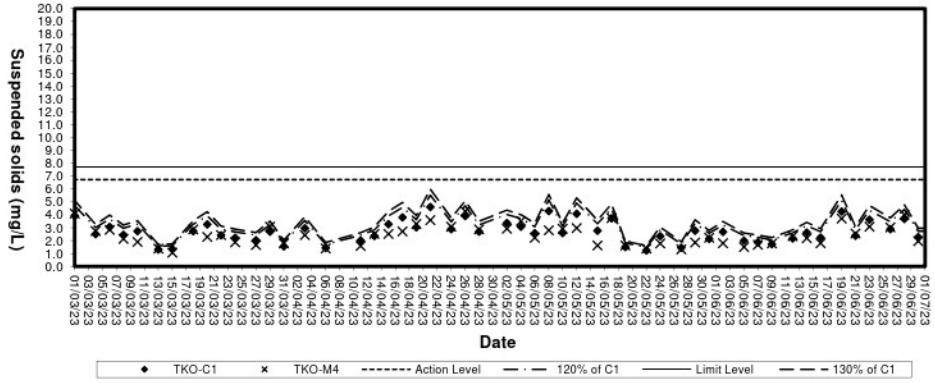
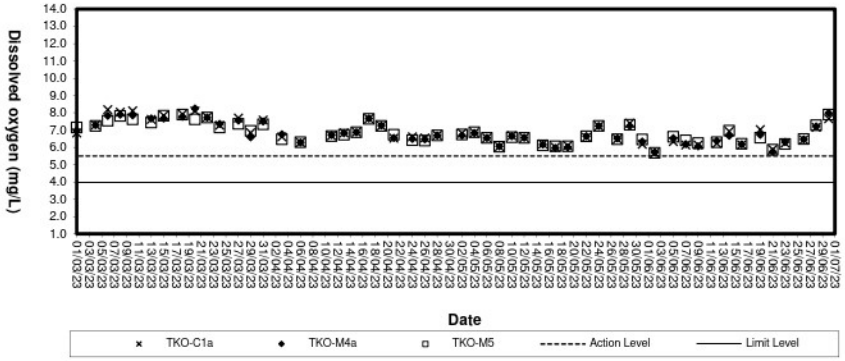
Suspended solids (Depth-average) at Mid-Flood Tide



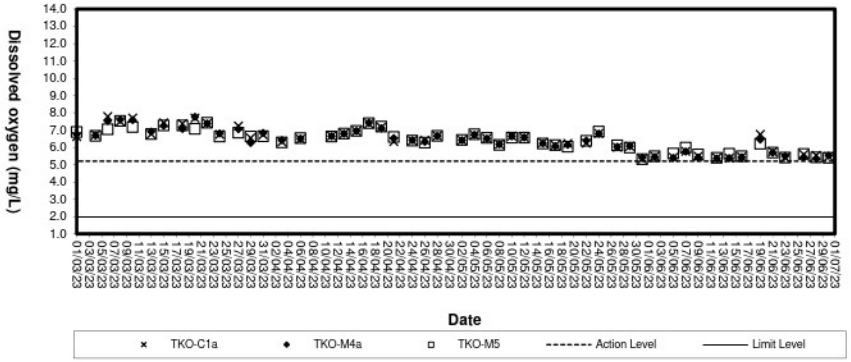
Suspended Solids (Depth-average) at Mid-Ebb Tide



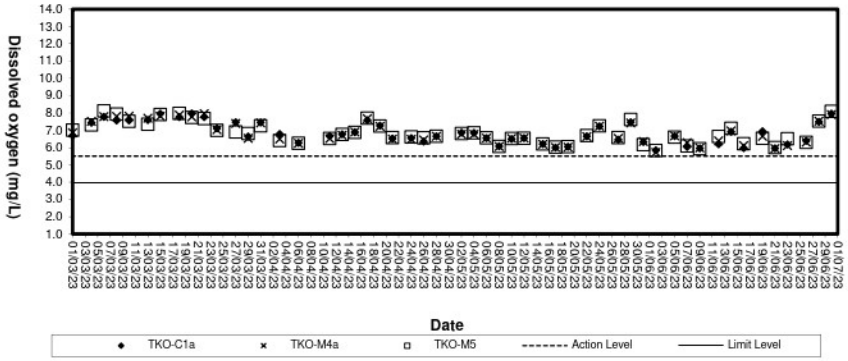
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



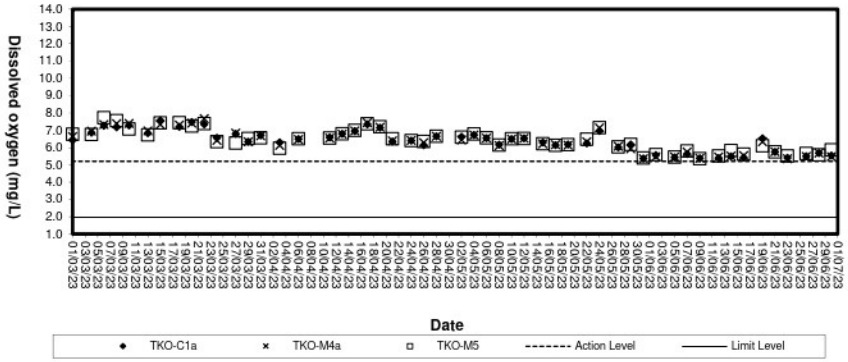
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



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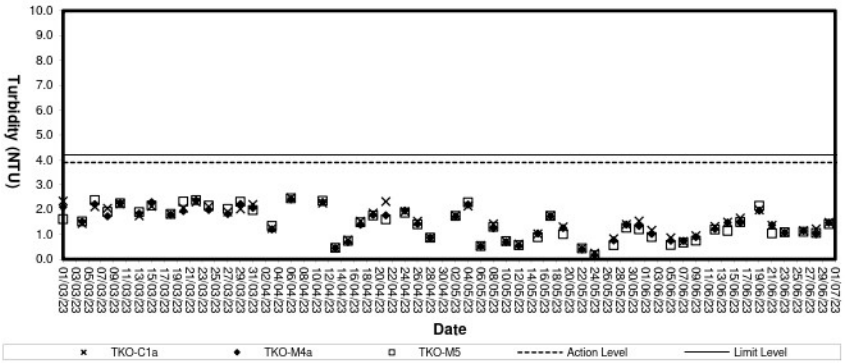
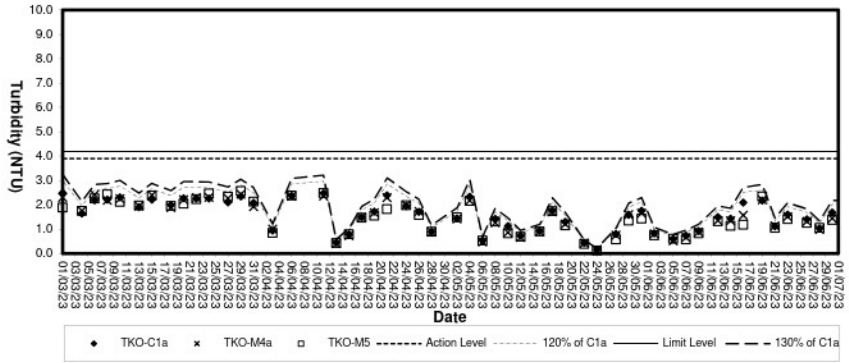
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



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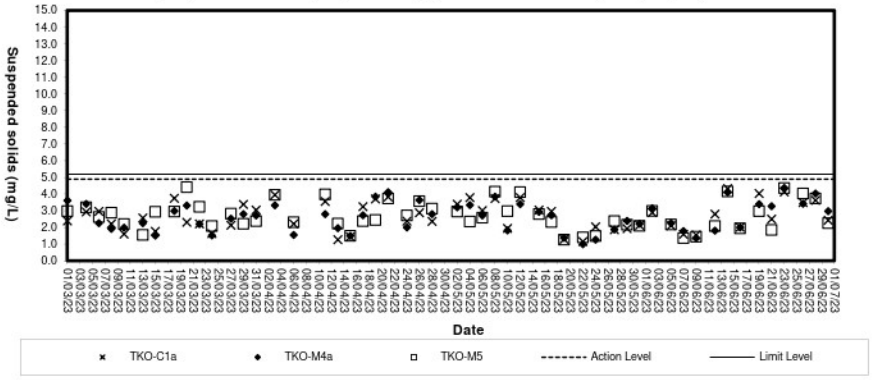
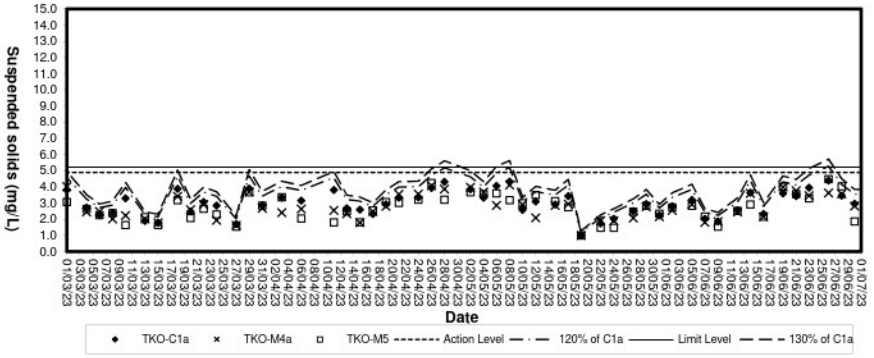
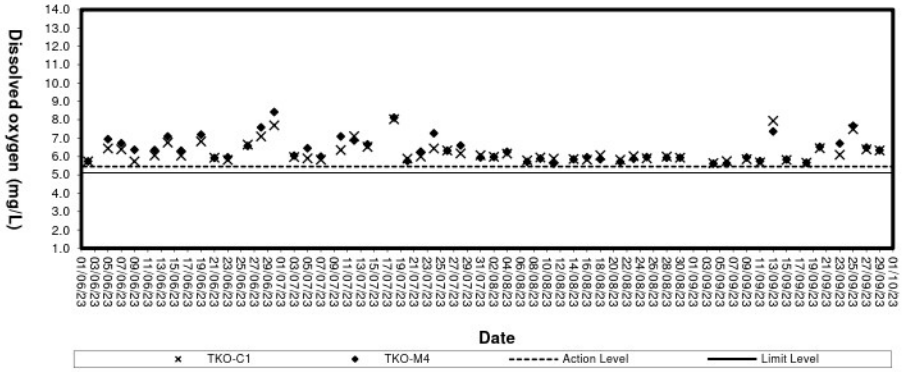
Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



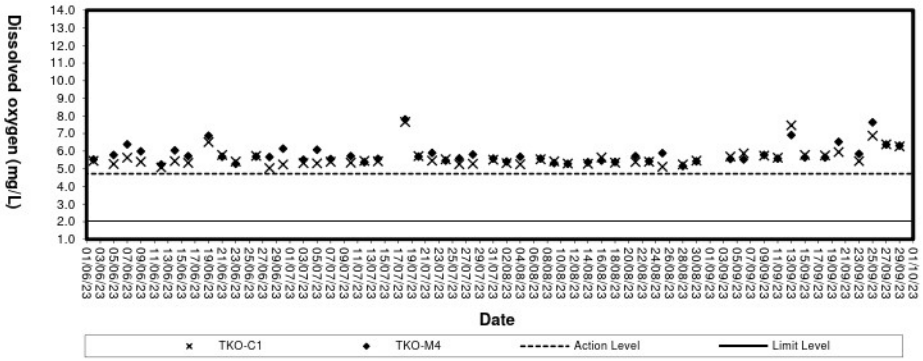
Suspended Solids (Depth-average) at Mid-Ebb Tide (3RS project)



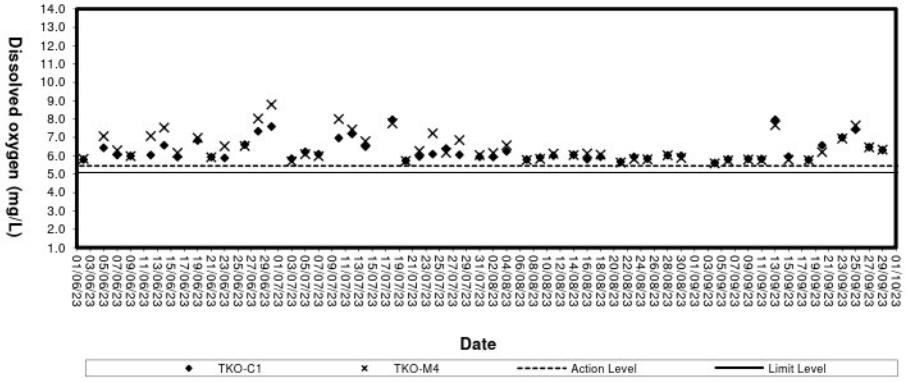
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



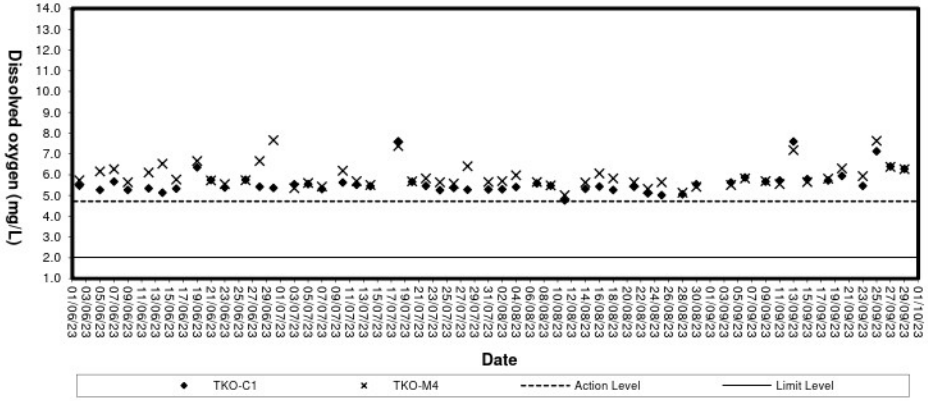
Dissolved Oxygen (Bottom) at Mid-Flood Tide



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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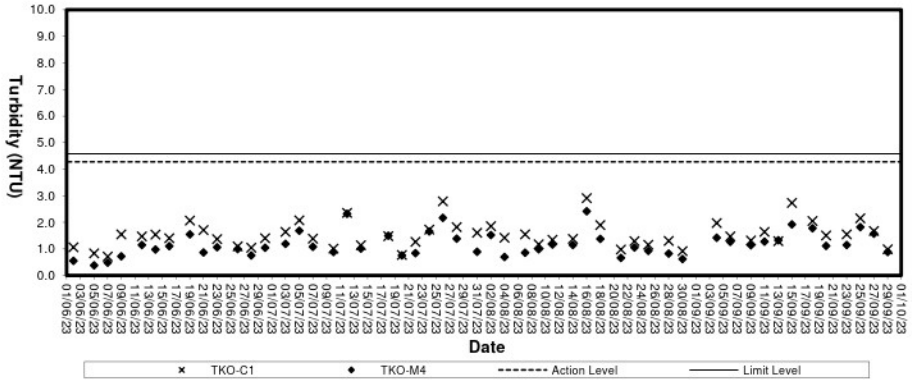
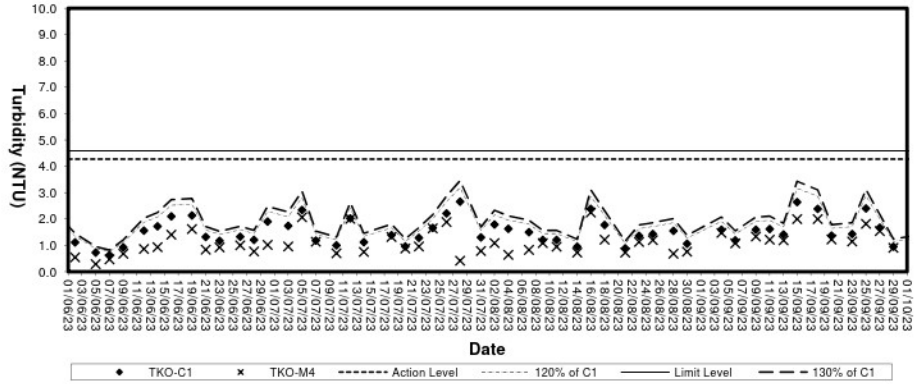
Turbidity (Depth-average) at Mid-Flood Tide



Turbidity(Depth-average) at Mid-Ebb Tide



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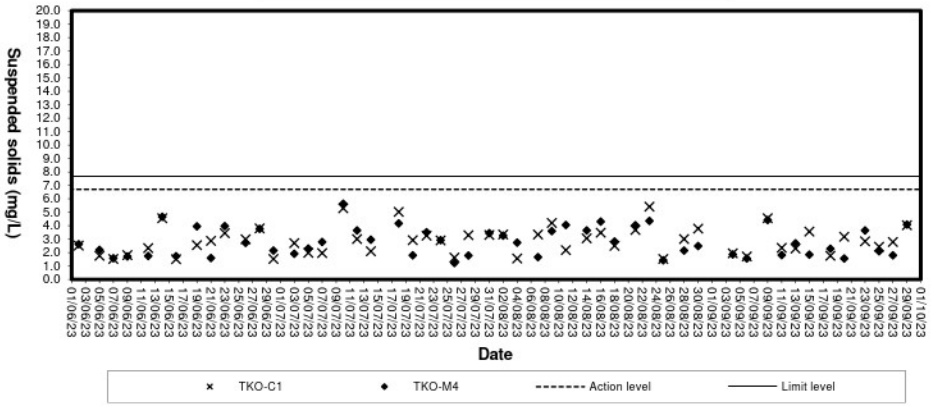
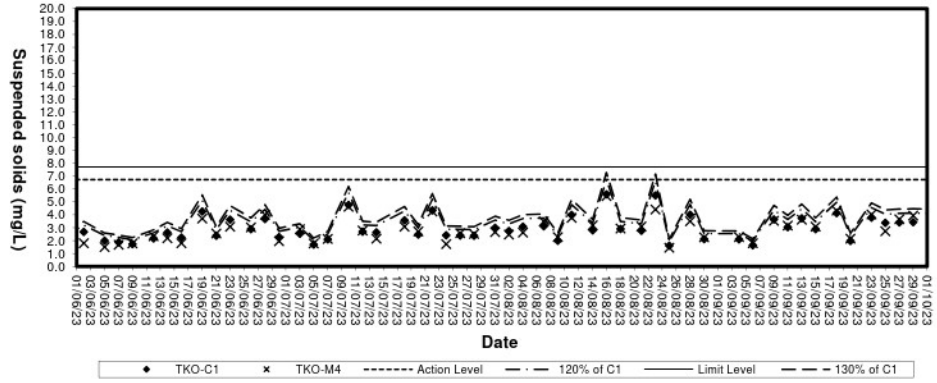
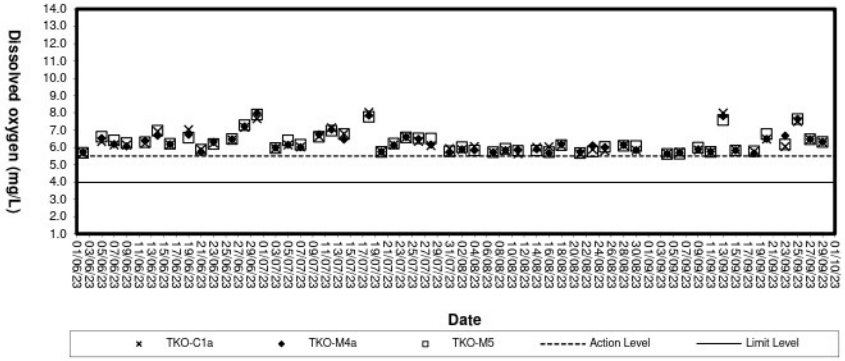
Suspended solids (Depth-average) at Mid-Flood Tide



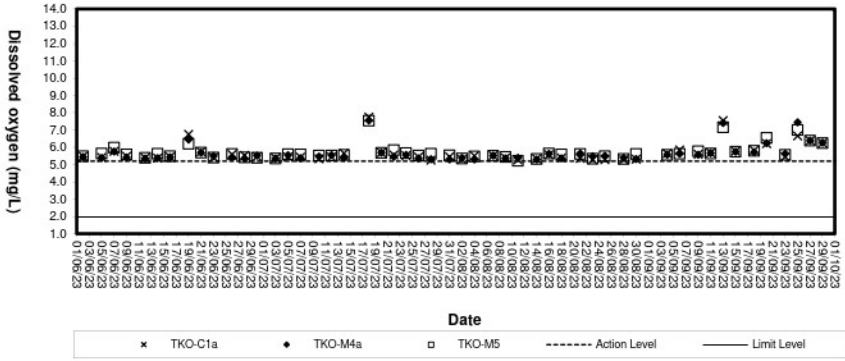
Suspended Solids (Depth-average) at Mid-Ebb Tide



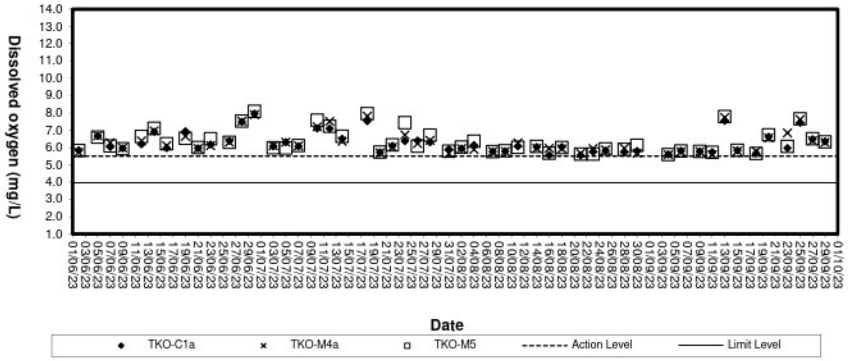
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



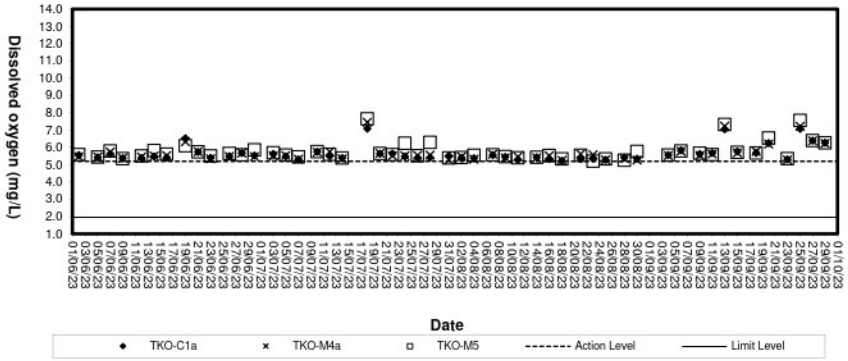
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



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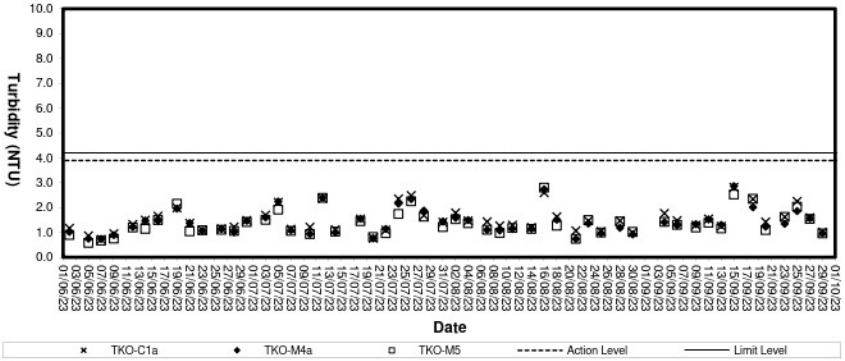
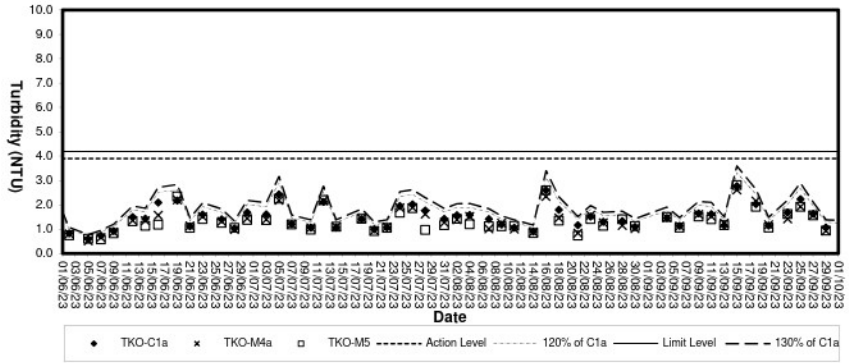
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



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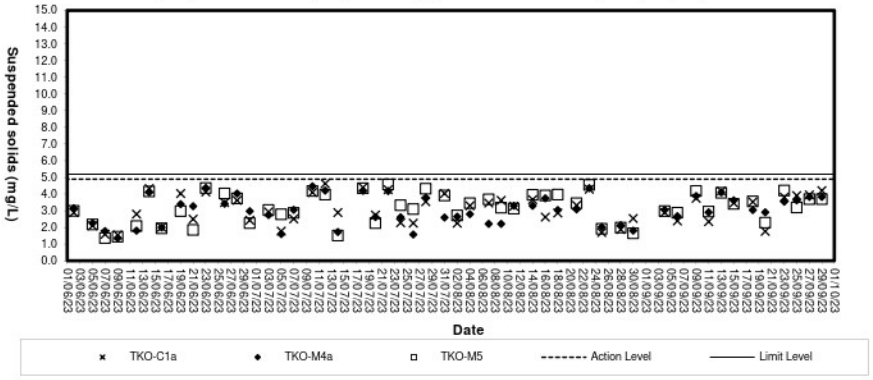
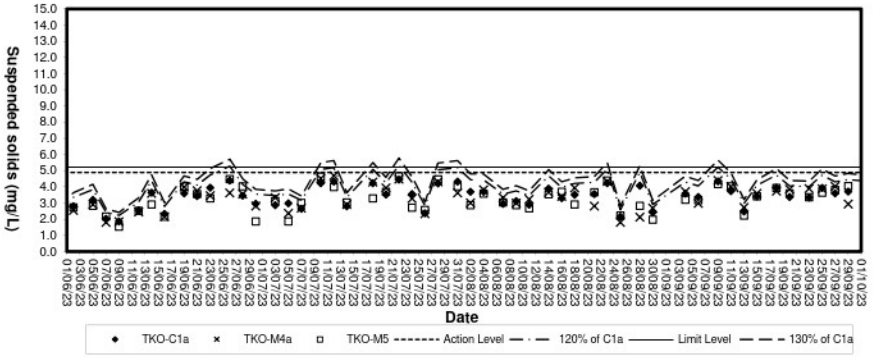
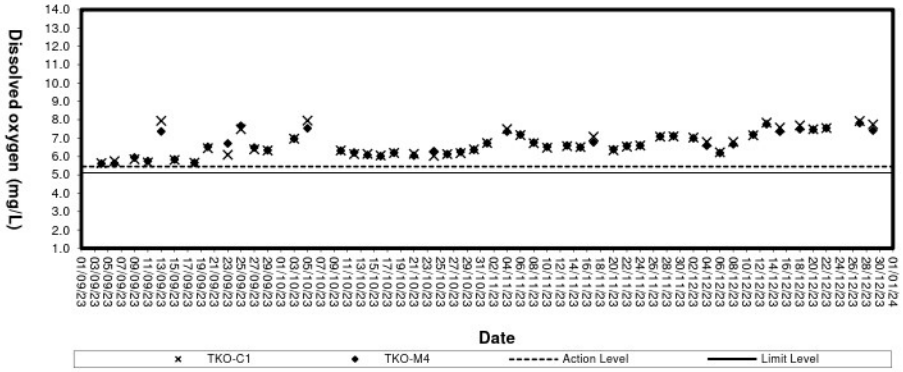
Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



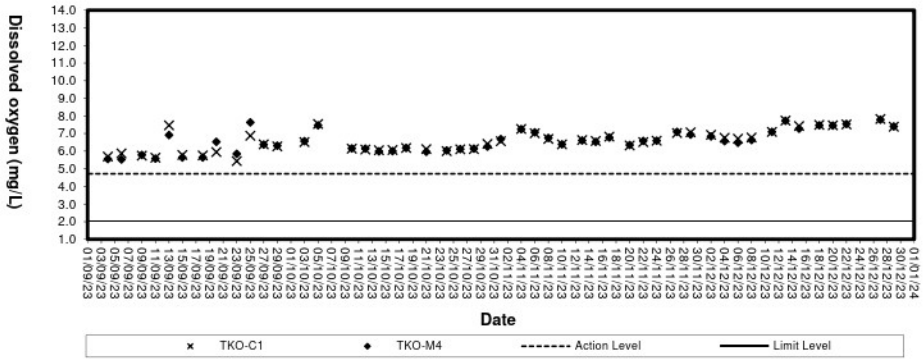
Suspended Solids (Depth-average) at Mid-Ebb Tide (3RS project)



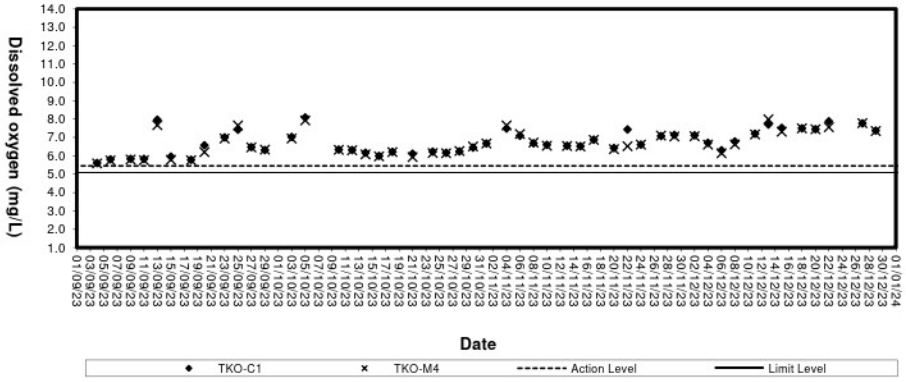
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



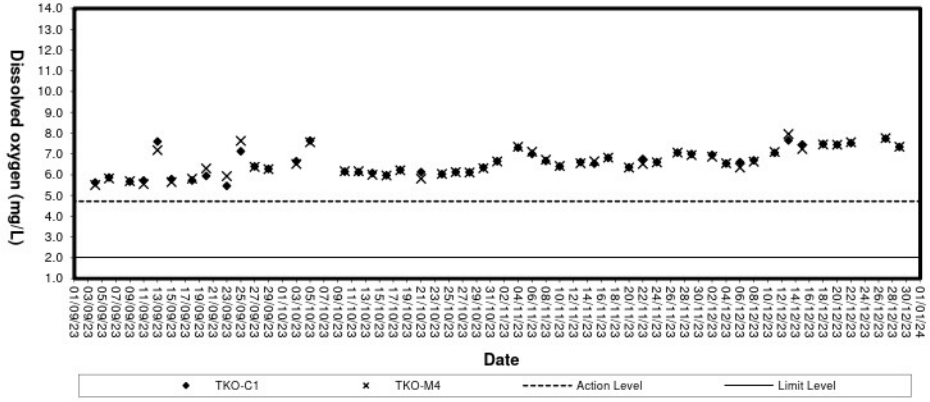
Dissolved Oxygen (Bottom) at Mid-Flood Tide



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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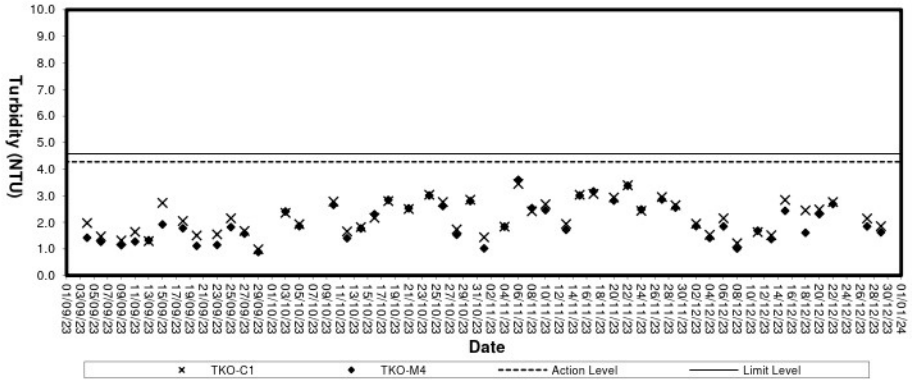
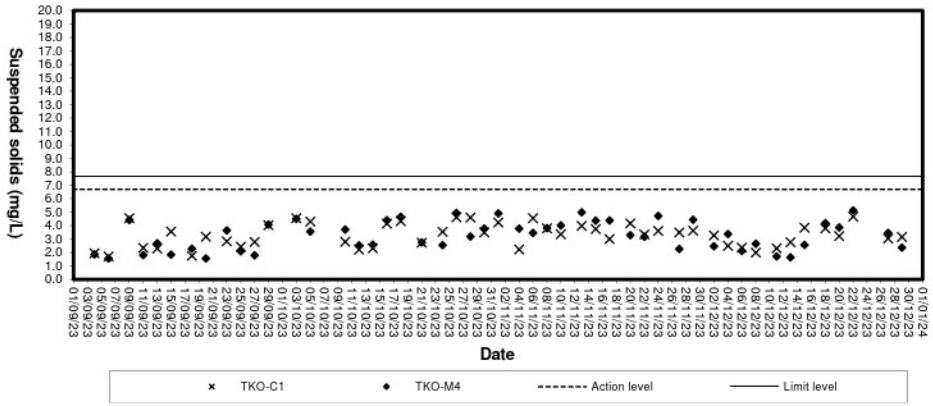
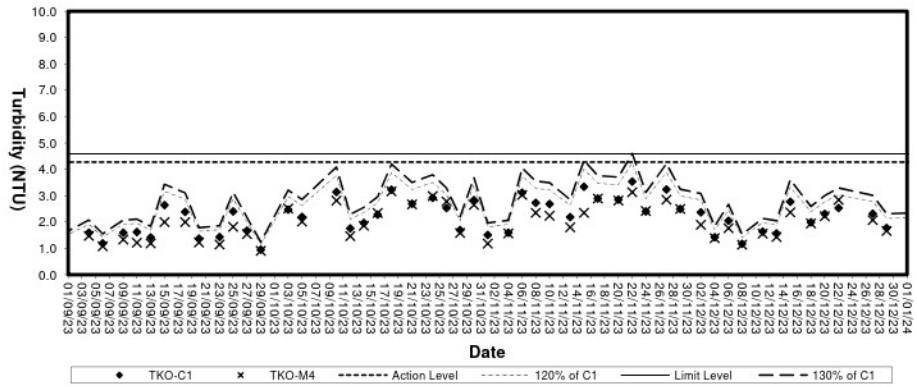
Turbidity (Depth-average) at Mid-Flood Tide



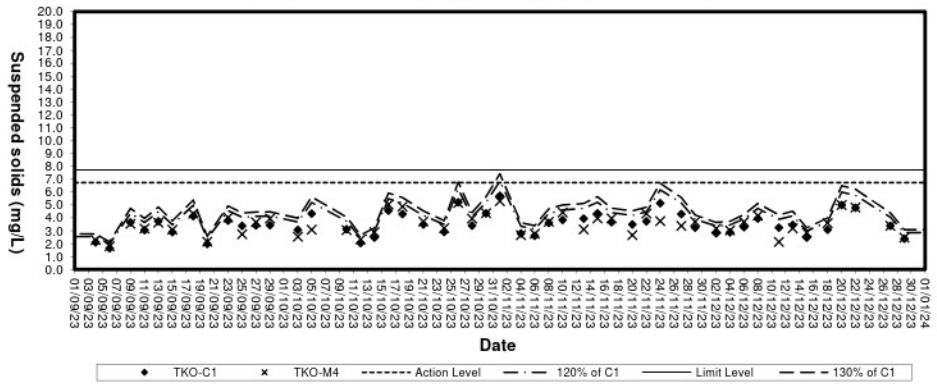
Suspended solids (Depth-average) at Mid-Flood Tide

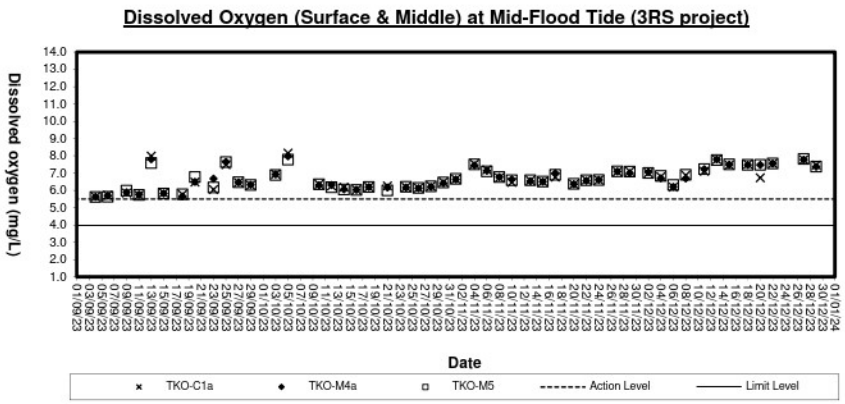


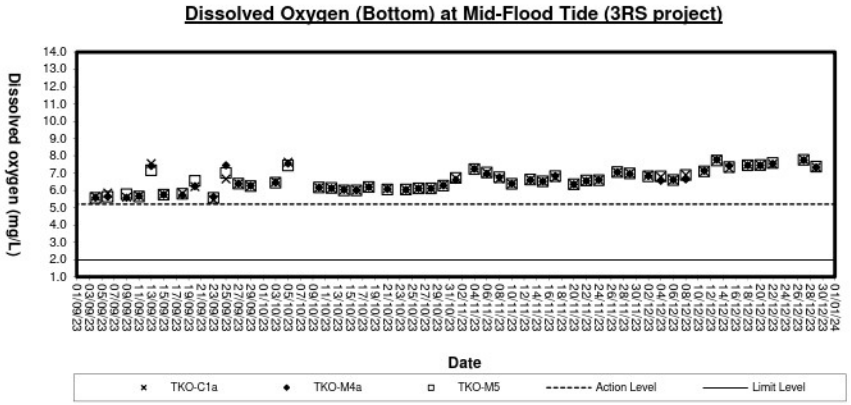
Turbidity(Depth-average) at Mid-Ebb Tide

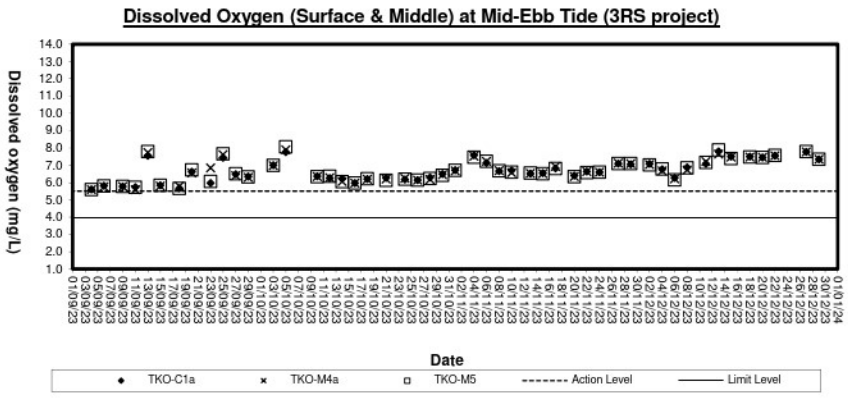


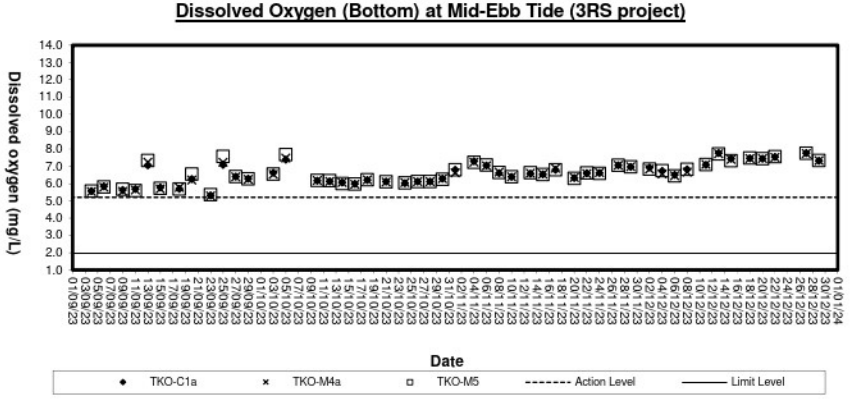
Suspended Solids (Depth-average) at Mid-Ebb Tide











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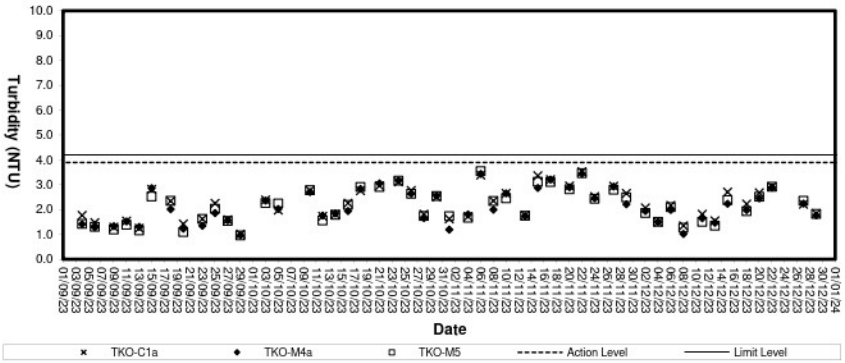
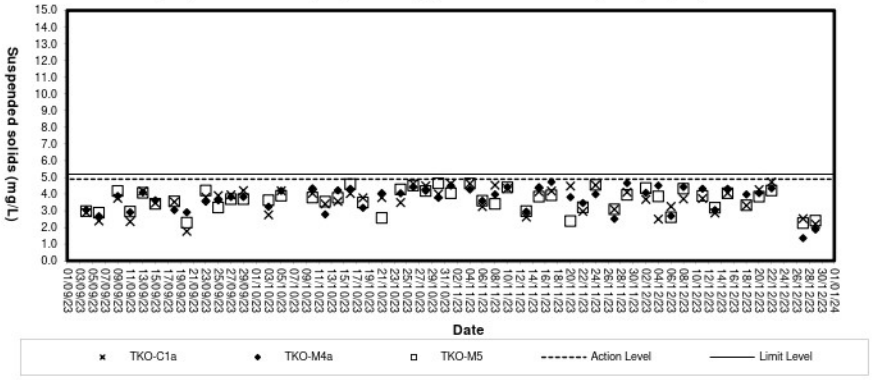
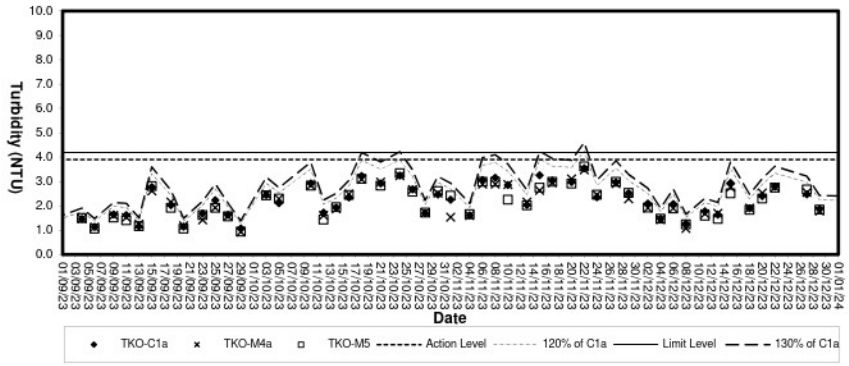
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



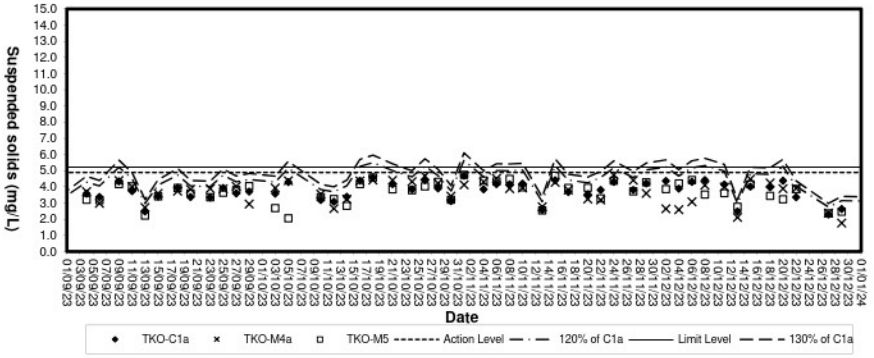
Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



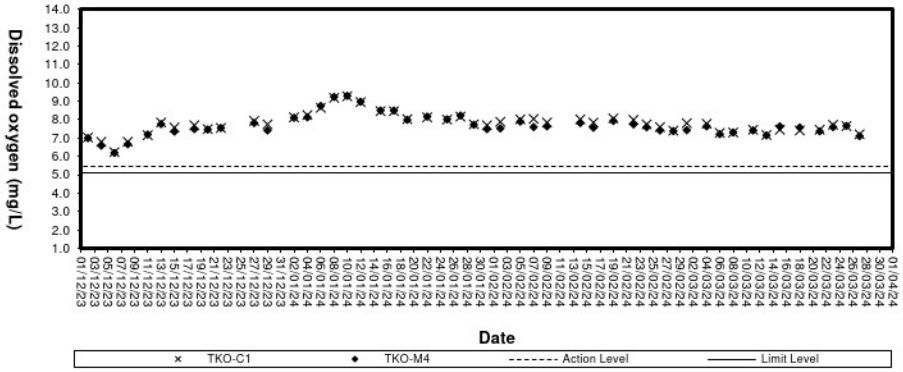
Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



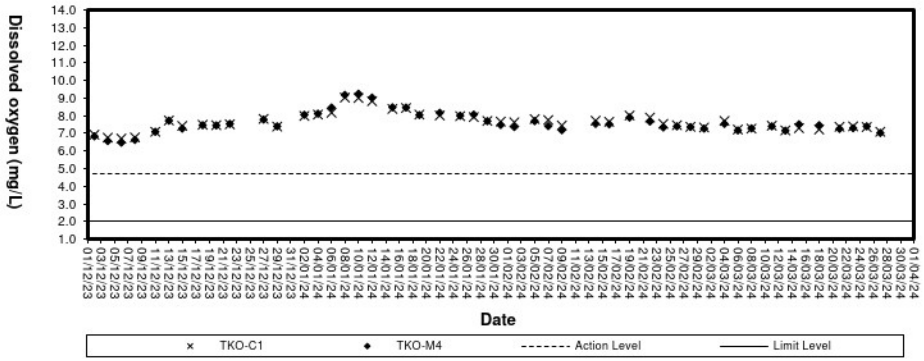
Suspended Solids (Depth-average) at Mid-Ebb Tide (3RS project)



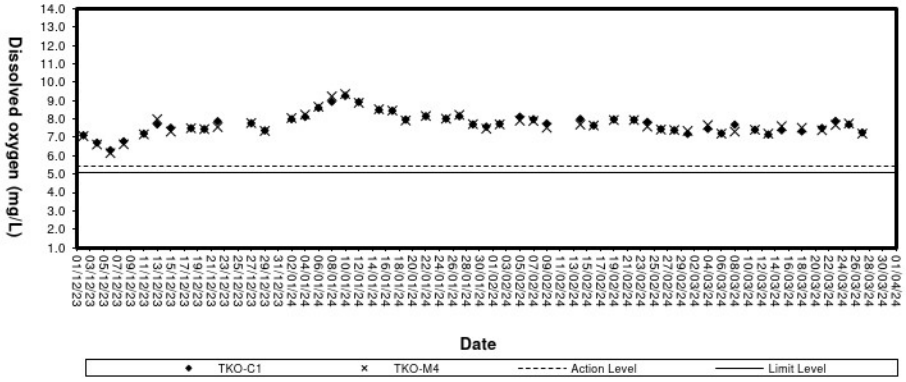
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



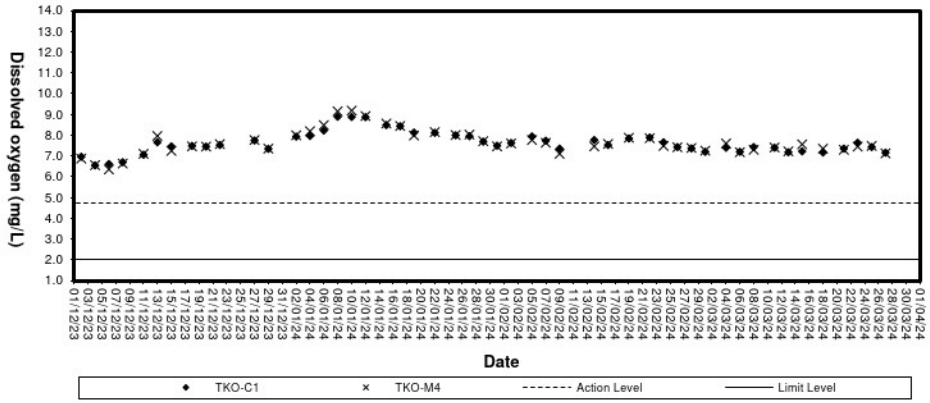
Dissolved Oxygen (Bottom) at Mid-Flood Tide



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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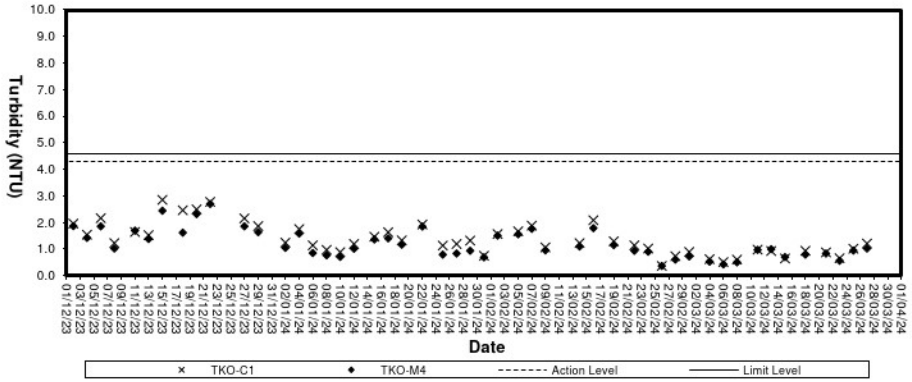
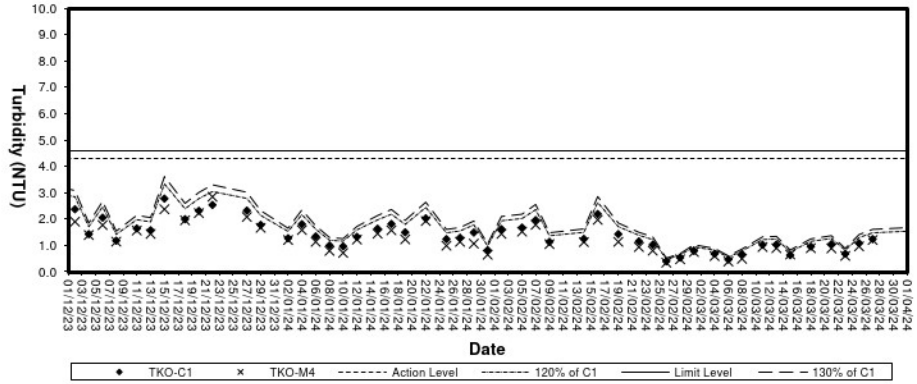
Turbidity (Depth-average) at Mid-Flood Tide



Turbidity(Depth-average) at Mid-Ebb Tide



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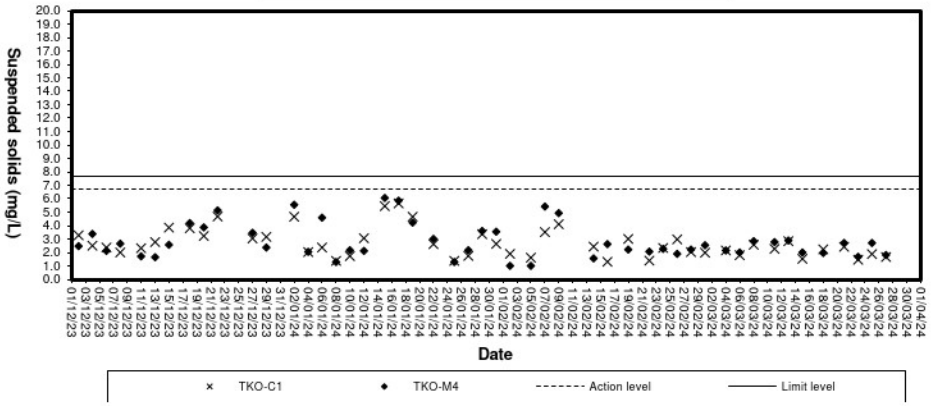
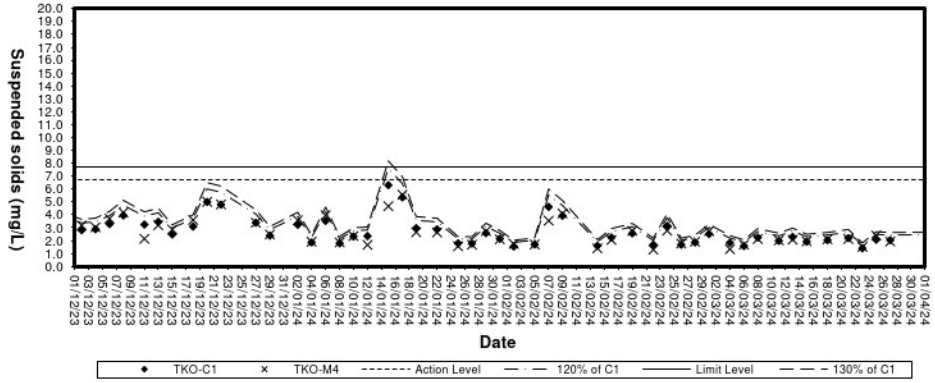
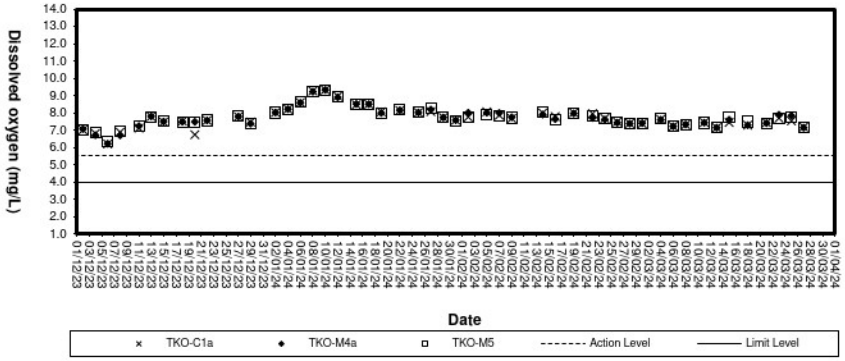
Suspended solids (Depth-average) at Mid-Flood Tide



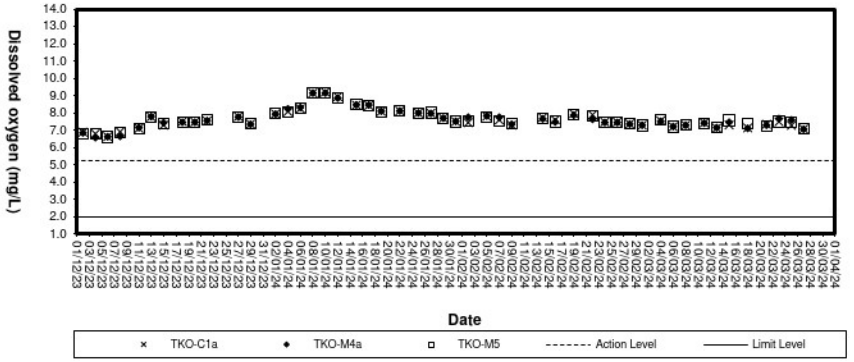
Suspended Solids (Depth-average) at Mid-Ebb Tide



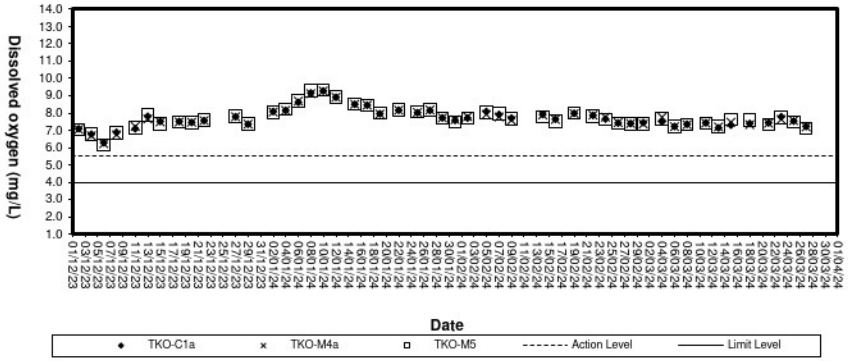
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



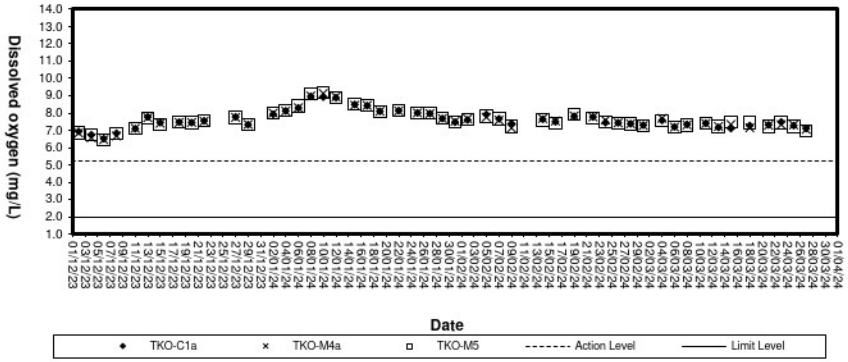
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



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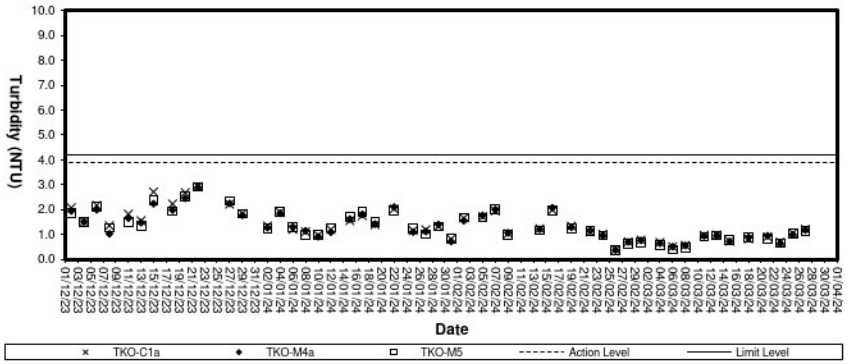
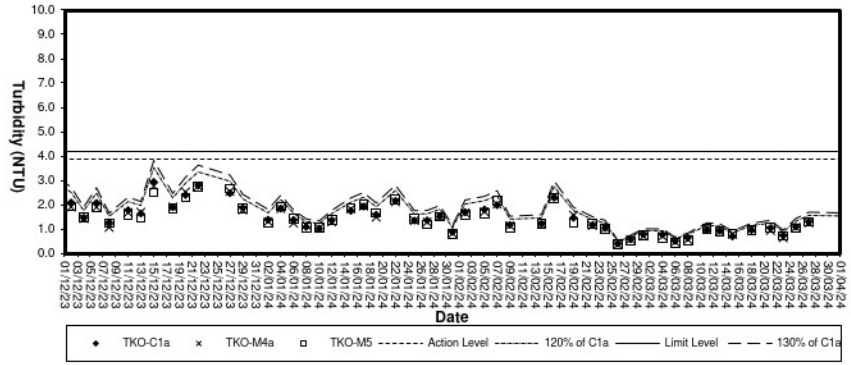
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



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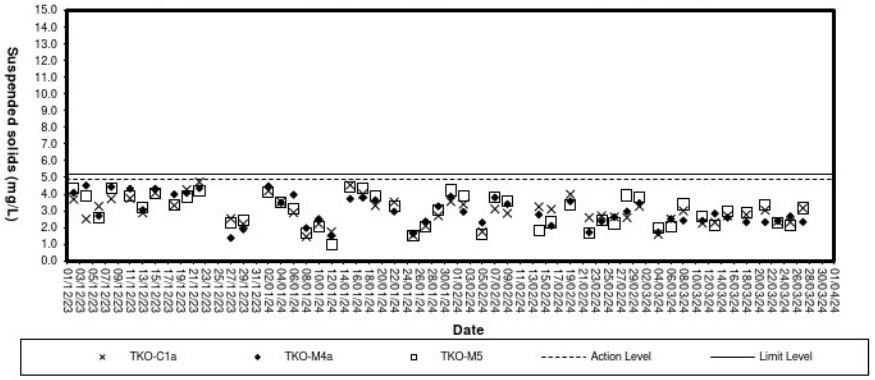
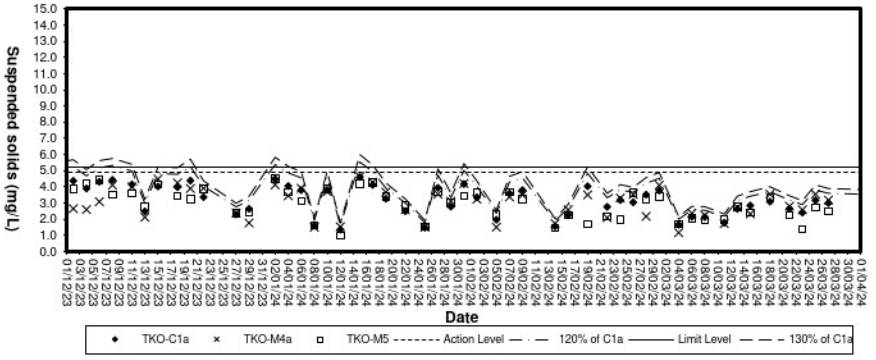
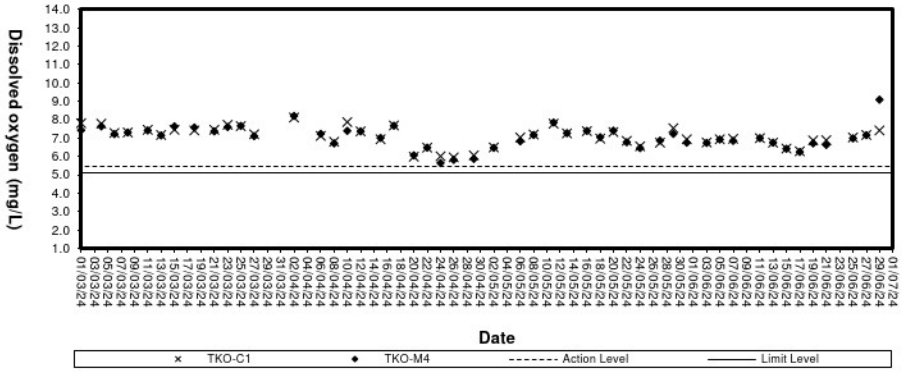
Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



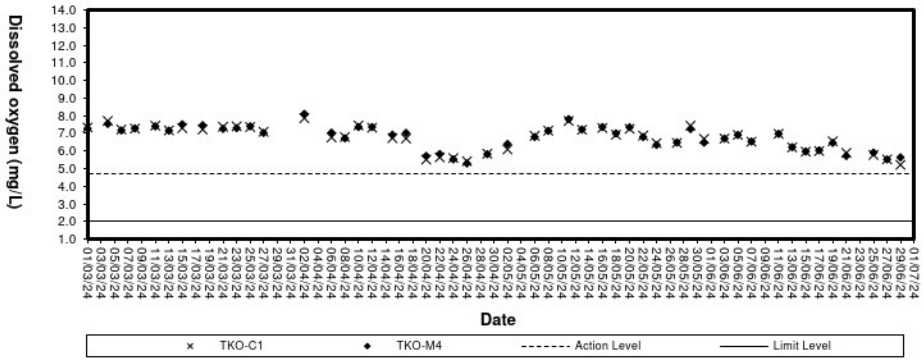
Suspended Solids (Depth-average) at Mid-Ebb Tide (3RS project)



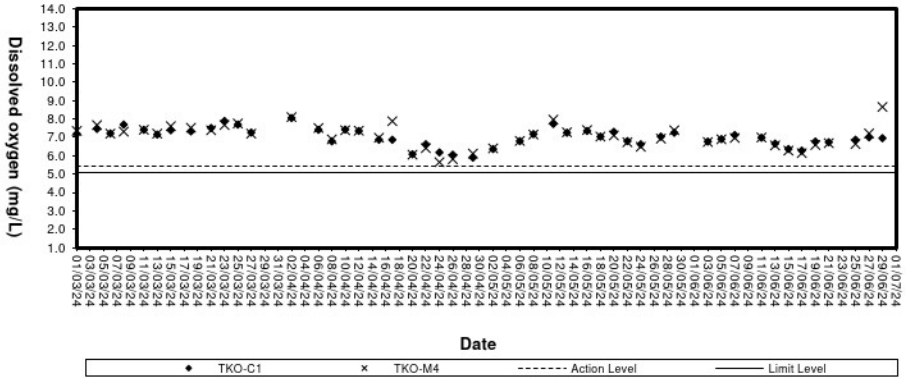
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



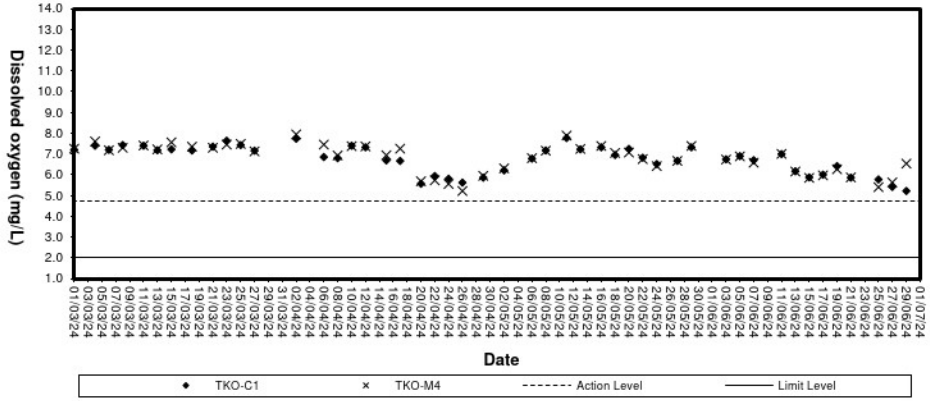
Dissolved Oxygen (Bottom) at Mid-Flood Tide



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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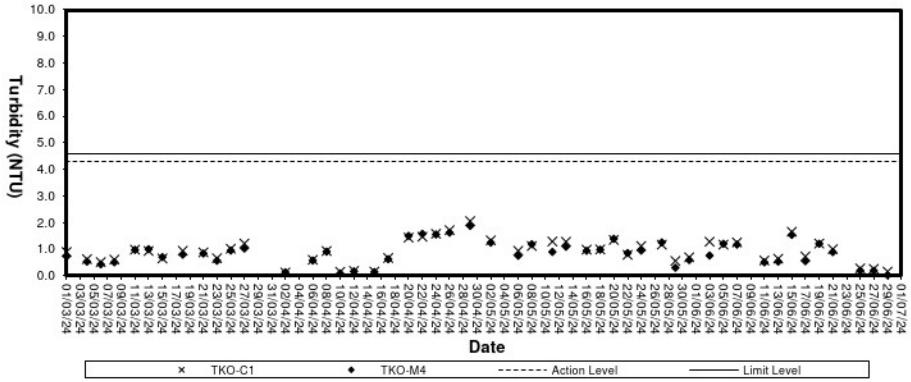
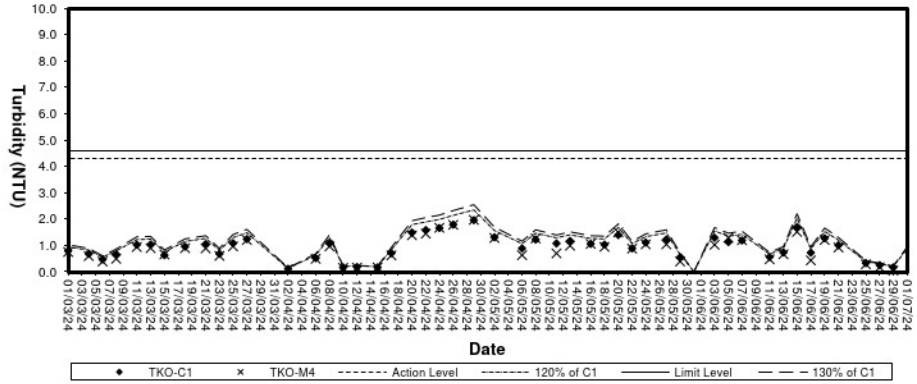
Turbidity (Depth-average) at Mid-Flood Tide



Turbidity(Depth-average) at Mid-Ebb Tide



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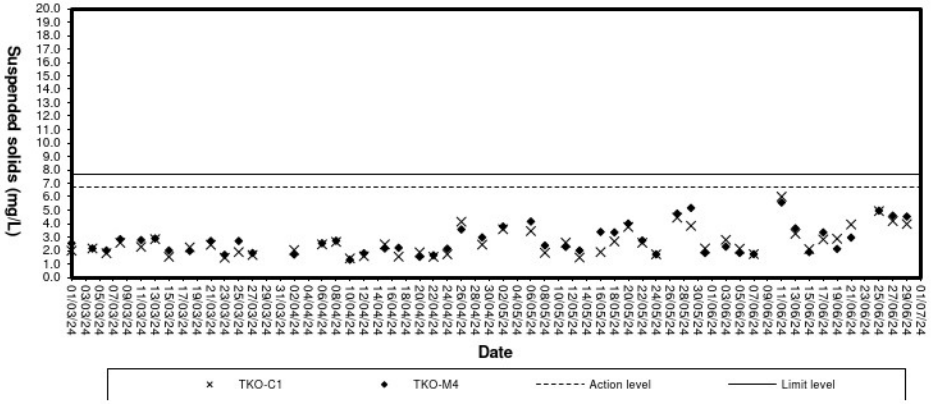
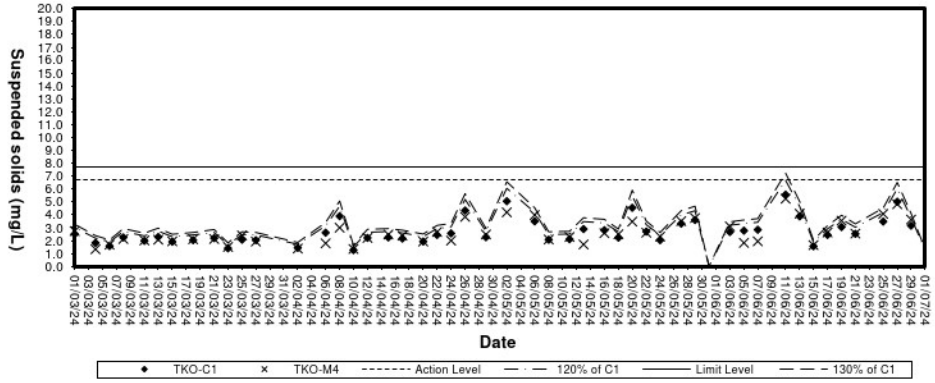
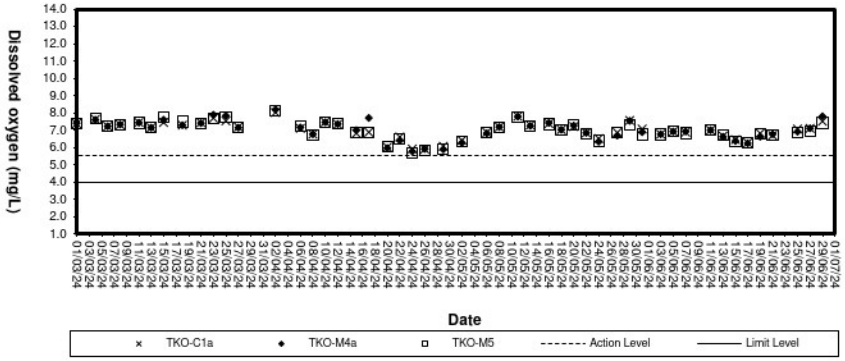
Suspended solids (Depth-average) at Mid-Flood Tide



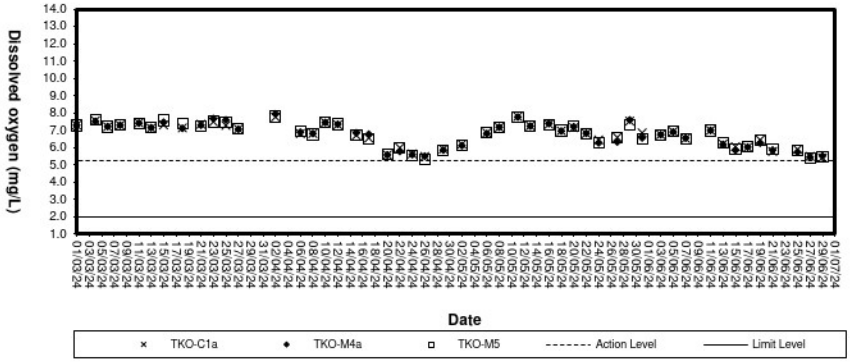
Suspended Solids (Depth-average) at Mid-Ebb Tide



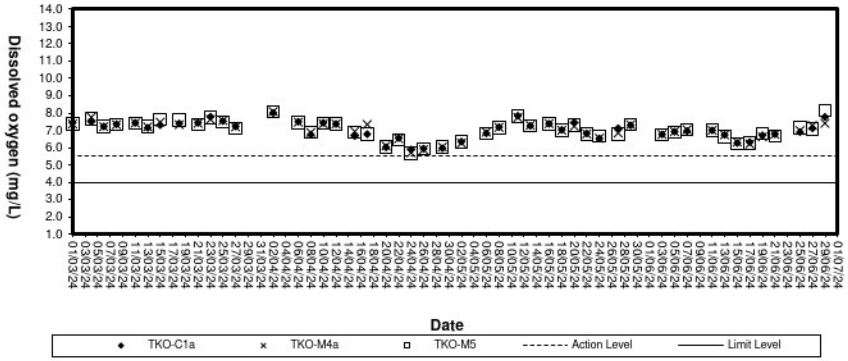
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



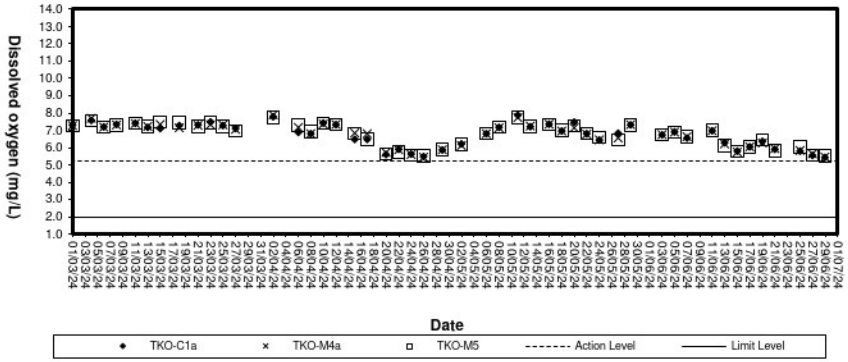
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



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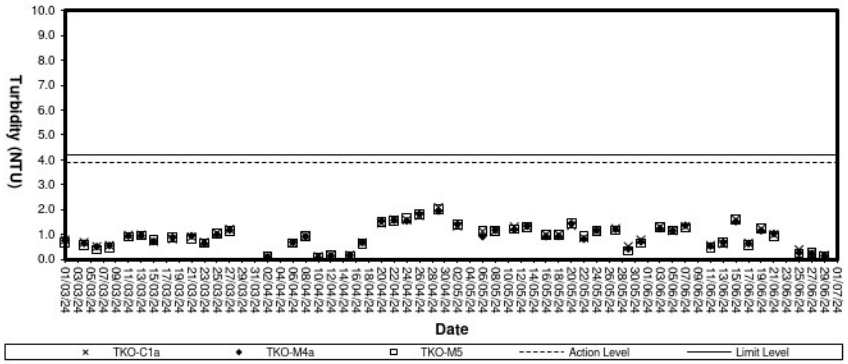
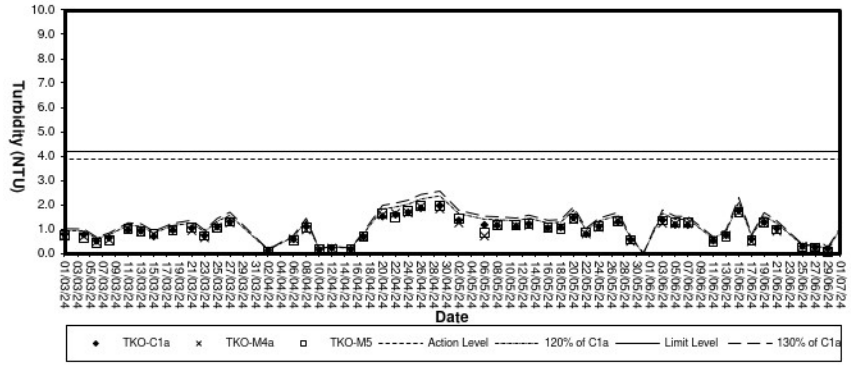
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



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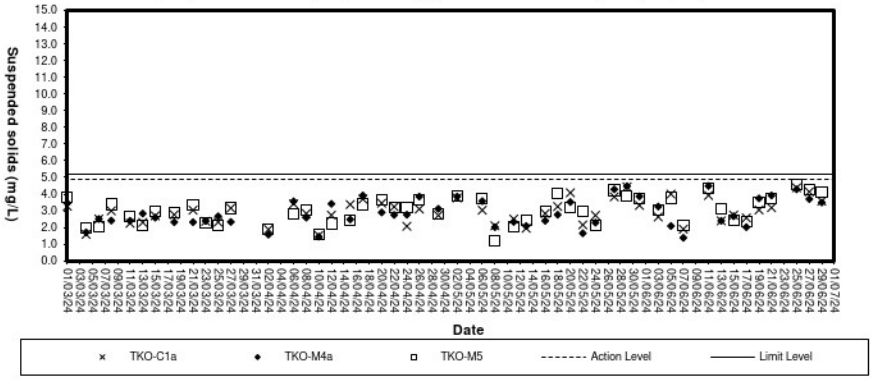
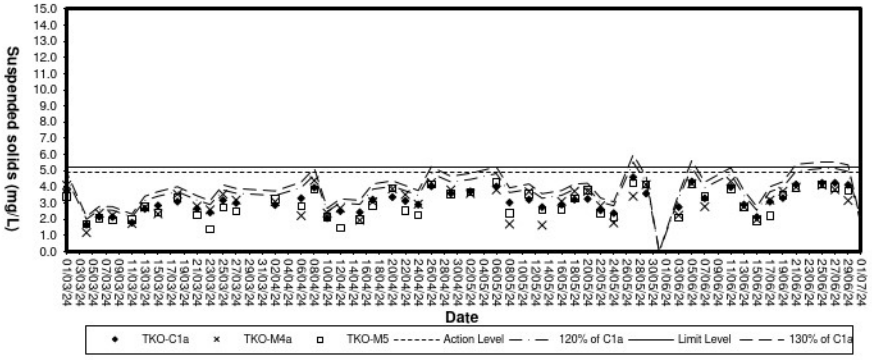
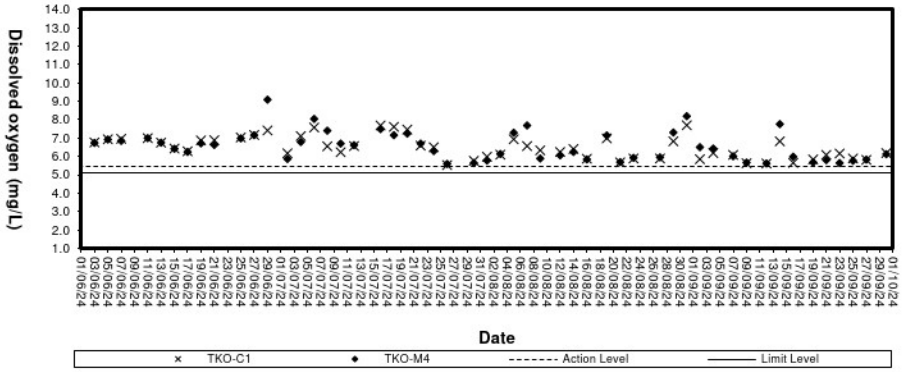
Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



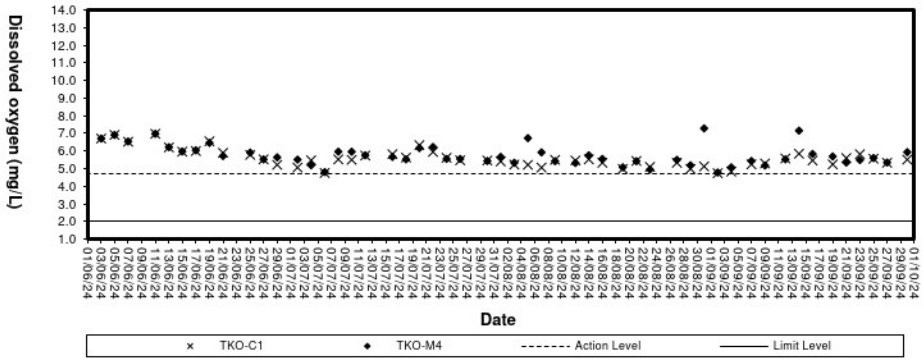
Suspended Solids (Depth-average) at Mid-Ebb Tide (3RS project)



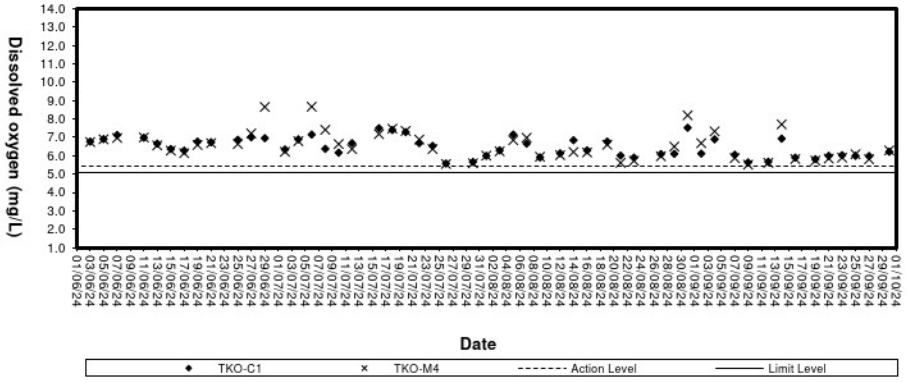
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



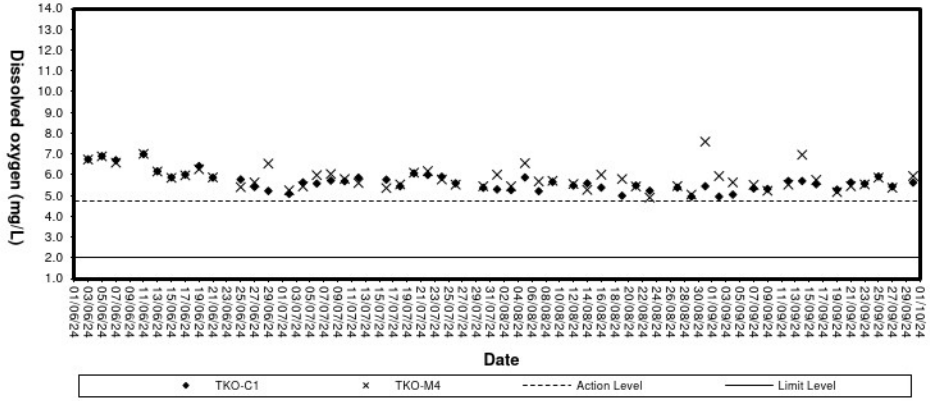
Dissolved Oxygen (Bottom) at Mid-Flood Tide



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



Dissolved Oxygen (Bottom) at Mid-Ebb Tide



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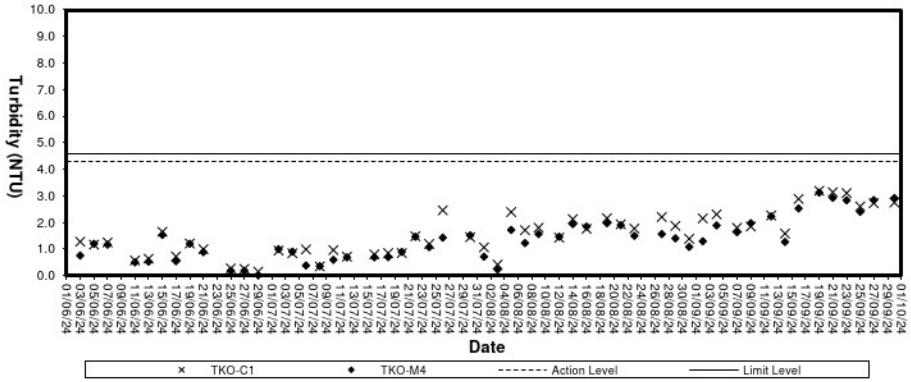
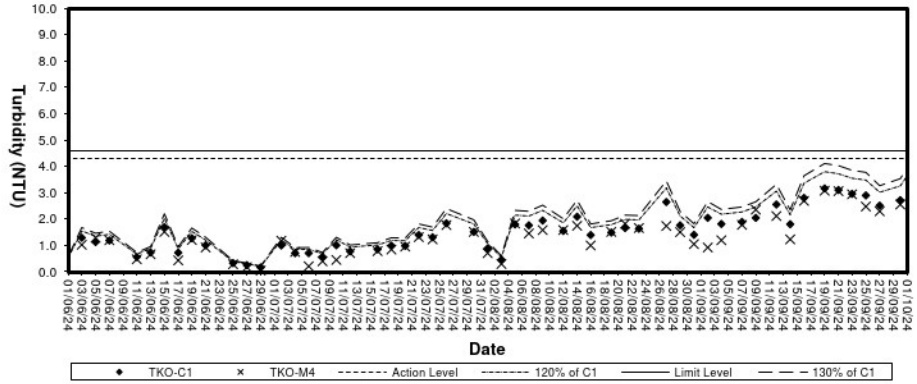
Turbidity (Depth-average) at Mid-Flood Tide



Turbidity(Depth-average) at Mid-Ebb Tide



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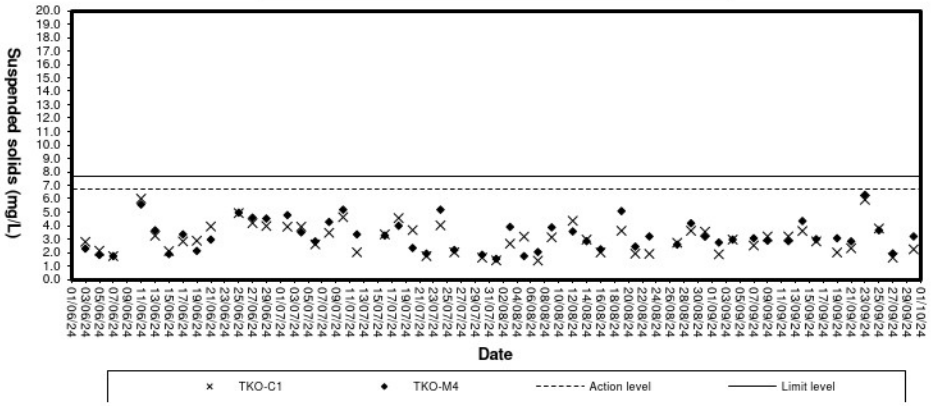
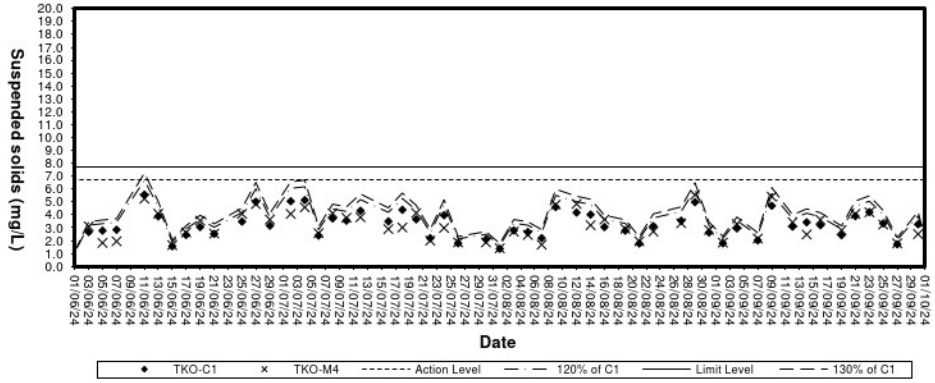
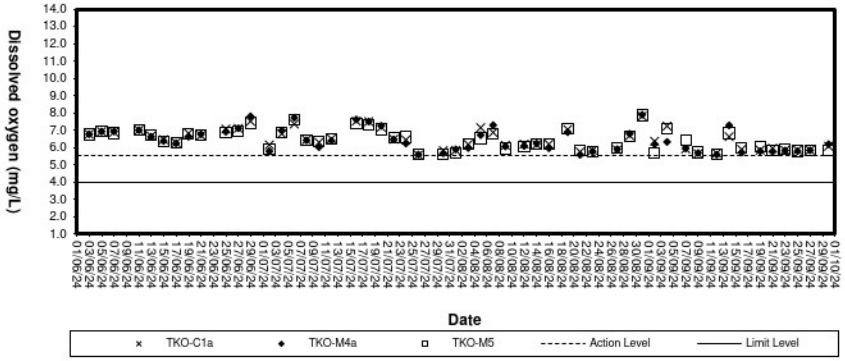
Suspended solids (Depth-average) at Mid-Flood Tide



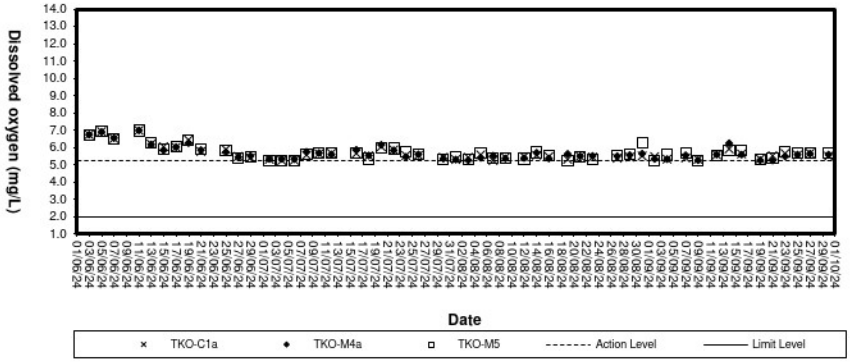
Suspended Solids (Depth-average) at Mid-Ebb Tide



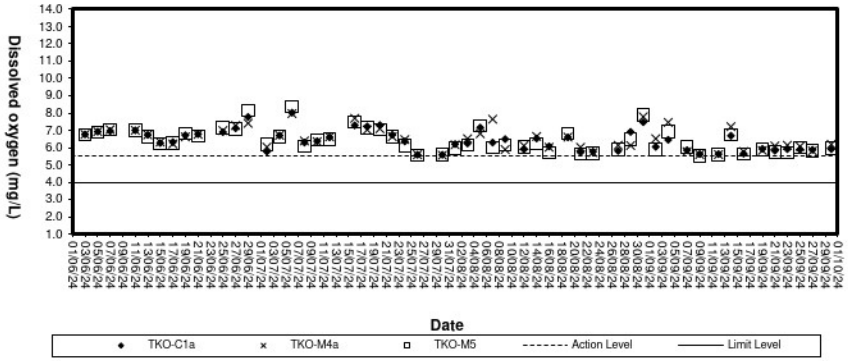
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



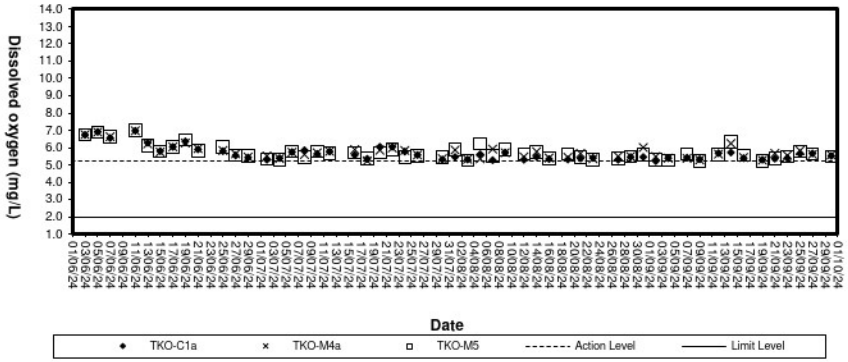
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



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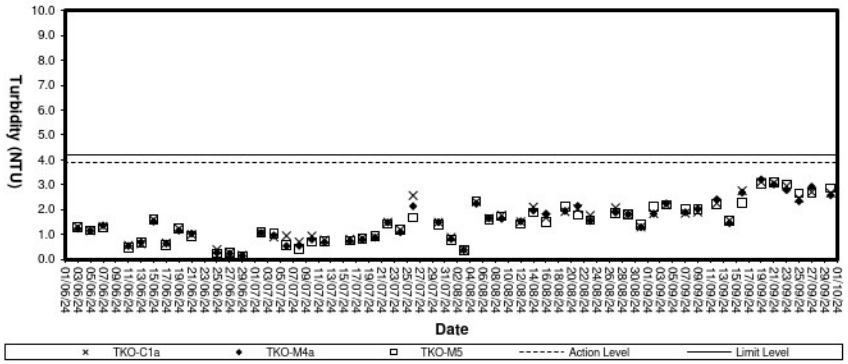
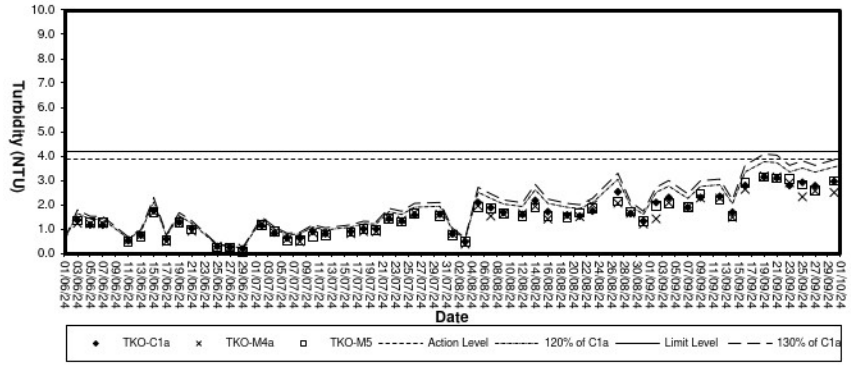
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



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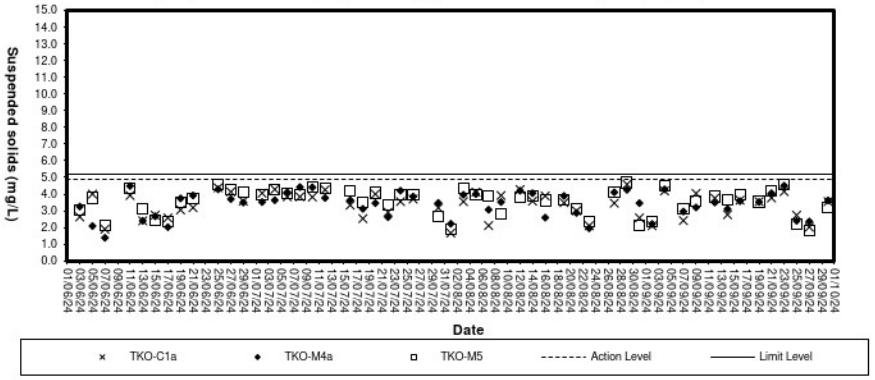
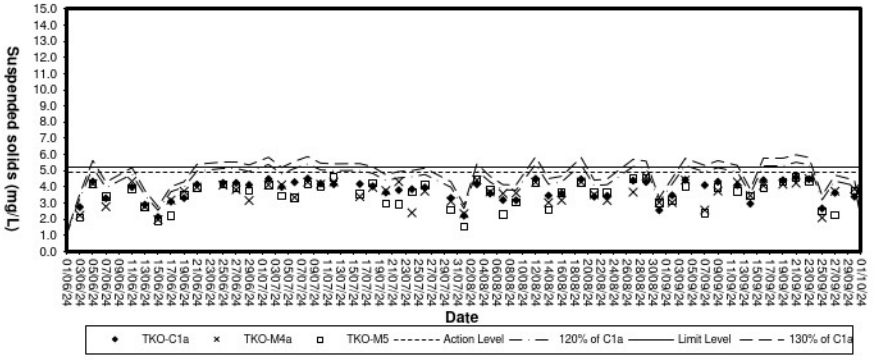
Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



Suspended Solids (Depth-average) at Mid-Ebb Tide (3RS project)



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