# Appendix J – Air Quality Report



407 TRANSITWAY – WEST OF BRANT STREET TO WEST OF HURONTARIO STREET MINISTRY OF TRANSPORTATION - CENTRAL REGION



**Ontario Ministry of Transportation** 

**FINAL** 

# **AIR QUALITY IMPACT ASSESSMENT**

Highway 407 Transitway: West of Brant Street to West of Hurontario Street

June 2020

Prepared by:	AIR QUALITY I
	ASSESSMENT

407 Transitway: West of Brant Street to West of Hurontario Street

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# **VERSION CONTROL**

Issue	Revision No	Date Issued	Description	Reviewed by
1	0	15 October 2019	Original	John Peters
2	1	04 March 2020		
3	2	15 June 2020	Adding two minor MTO comments	Fred Bernard

### **EXECUTIVE SUMMARY**

The Ontario Ministry of Transportation (MTO) is proposing a transitway facility along the Highway 407 Express Toll Route (ETR) corridor through the Regional Municipalities of Halton and Peel, from west of Brant Street in the City of Burlington to west of Hurontario Street in the City of Mississauga (407 Transitway). The 407 Transitway will extend for about 43 km and will include a runningway, several stations and a bus storage yard that will include parking facilities, transit integration and other amenities. Subject to the outcome of the study, the 407 Transitway will be implemented initially as bus rapid transit (BRT) facility with the opportunity to convert to light rail transit (LRT) in the future; however, this assessment only focuses on BRT. The transitway will be a high-speed fully grade-separated facility on a separate right-of-way running parallel, and crossing over or under Highway 407 ETR. Portions crossing the major hydro corridor within the project area will be located below ground.

Arcadis Canada Inc. was retained by LGL Limited (LGL), on behalf of the MTO, to complete an Air Quality Impact Assessment (AQIA) in support of the Transit Project Assessment Process (TPAP) for the 407 Transitway project (the "Project"). As the Project is under the jurisdiction of the MTO, guidelines developed by the MTO were the primary reference for the assessment methodology and impact assessment criteria. In the absence of MTO-developed guidance for project effects, relevant guidelines from the Ontario Ministry of the Environment, Conservation and Parks (MECP) were applied as appropriate.

An air quality and greenhouse gas (GHG) emissions inventory was completed for the future reference year 2041, with and without the proposed 407 Transitway. The air quality impacts of the proposed 407 Transitway were evaluated using detailed air dispersion modelling. Estimated concentrations of all pollutants of concern were shown to be below their corresponding ambient air quality criteria and standards for all scenarios, except benzo[a]pyrene and benzene, which have background concentrations already above their respective criteria and standards. However, due to future low emission engine technologies and fuels, air quality with respect to future benzo[a]pyrene and benzene concentrations is predicted to improve over current conditions with or without the 407 Transitway.

#### **Discussion of Existing Conditions**

The results of the assessment show, through modelling and monitoring data, that the existing air quality in the study area is typical of a suburban setting, which is characterized by elevated pollution concentrations in relation to rural areas, with periodic exceedances of applicable air quality criteria. Available historical monitoring data near to the study area indicates that background concentrations of all contaminants assessed in this AQIA are within applicable criteria with the exception of benzene and benzo[a]pyrene concentrations which periodically exceed applicable criteria.

### Comparison of Existing Conditions with Future Scenarios

The assessment identified that compared to existing conditions, concentrations of gaseous contaminants, with the exception of  $SO_2$  for which there is an insignificant increase, are predicted to improve despite increases in traffic resulting from population growth in the study area. This improvement is a result of assumptions regarding future low emission engine technologies and fuels. For particulate matter which is affected by tail pipe emissions, traffic volumes and road conditions (primarily silt loading of roads), predicted concentrations at sensitive receptor locations will generally increase in both future scenarios due to increased road dust attributable to higher traffic volumes, but will be below the applicable criteria.  $CO_2$ e emissions are shown to increase in the future scenarios relative to Existing Conditions due to increased traffic volumes (largely attributable to 407 ETR traffic), with changes due to the 407 Transitway representing less than a 2% increase in  $CO_2$ e emissions.

#### Comparison of Future Scenarios

The assessment identified that, with the exception of TSP and  $PM_{10}$  concentrations, the Future Build scenario will generally result in a 2% increase in pollutant concentrations at sensitive receptor locations compared to the Future No-Build scenario. As a result, the increase in gaseous and particulate air pollutants attributable to the Project is deemed to be insignificant (i.e. less than 10%). The increase in predicted 24-hour maximum  $PM_{10}$  and annual TSP concentrations from Future No Build to Future Build is not significant (i.e., less than 10%). Predicted 24-hour maximum TSP concentrations show a significant increase (i.e., greater than 10%) from Future No Build to Future Build at sensitive receptors in close vicinity of the proposed Transitway attributable to road dust from the 407 Transitway. Despite this increase, predicted 24-hour TSP concentrations are still below the respective criterion. Emissions of  $CO_2e$  are also shown to increase in the Future Build scenario relative to Future No-Build, however, the percent change is insignificant at less than 2%.

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### **ACRONYMS AND ABBREVIATIONS**

μg/m³ Micrograms per Cubic MetreAADT Annual Average Daily TrafficAAQC Ambient Air Quality Criteria

Arcadis Arcadis Canada Inc.

AQIA Air Quality Impact Assessment

AVFT Alternative Vehicle Fuels and Technologies

B[a]P Benzo [a]pyrene
BRT Bus Rapid Transit

CAAQS Canadian Ambient Air Quality Standards

CAC Criteria Air Contaminants

CCME Canadian Council of the Ministers of the Environment

CO Carbon monoxide
CO<sub>2</sub> Carbon dioxide

CO<sub>2</sub>e Carbon dioxide equivalent

CH<sub>4</sub> Methane

CWS Canada-Wide Standard

ECCC Environment and Climate Change Canada

EPR Environmental Project Report

ETR Express Toll Route g/h grams per hour GHG greenhouse gas

GTA Greater Toronto Area
GWP global warming potential

g/VKT Grams per Vehicle Kilometre Travelled

km/hr kilometers per hour

LGL LGL Limited

LRT Light rail transit

MECP Ontario Ministry of the Environment, Conservation and Parks

MNR Ontario Ministry of Natural Resources

MOECC Ontario Ministry of the Environment and Climate Change

MOVES Motor Vehicle Emissions Simulator

MTO Ontario Ministry of Transportation

NAPS National Air Pollution Surveillance program

 $N_2O$  Nitrous oxide  $NO_2$  Nitrogen dioxide  $NO_x$  Nitrogen oxides

PAH Polycyclic aromatic hydrocarbons

PM<sub>10</sub> Particulate matter less than 10 microns PM<sub>2.5</sub> Particulate matter less than 2.5 microns

ppb parts per billion

PPUDO Passenger Pick-up and Drop-off

ROW right-of-way

RVP Reid Vapour Pressure

SO<sub>2</sub> Sulphur dioxide

TPAP Transit Project Assessment Process

TSP Total suspended particulate

U.S. EPA United States Environmental Protection Agency

VKT Vehicle Kilometres Travelled

VMT Vehicle Miles Travelled

VOC Volatile organic compounds

### 1 INTRODUCTION

### 1.1 Project Description

The Ontario Ministry of Transportation (MTO) is proposing a transitway facility along the Highway 407 Express Toll Route (407 ETR) corridor through the Regional Municipalities of Halton and Peel, from west of Brant Street in the city of Burlington to west of Hurontario Street in the city of Mississauga (407 Transitway). The 407 Transitway extend for about 43 km and will include a runningway, several stations and a bus storage yard that will include parking facilities, transit integration and other amenities. Subject to the outcome of the study, the 407 Transitway will be implemented initially as bus rapid transit (BRT) with the opportunity to convert to light rail transit (LRT) in the future.

This segment forms part of the 150 km long high-speed interregional facility planned to be ultimately constructed on a separate right-of-way that parallels 407 ETR from Burlington to Highway 35/115, with stations, parking and access connections. This transitway is a component of the official plans of the stakeholder municipalities and of the Province's commitment to support transit initiatives in the Greater Golden Horseshoe through the Metrolinx Regional Transportation Plan.

The 407 Transitway will be a high-speed fully grade-separated facility on a separate right-of-way running parallel, and crossing over or under Highway 407 ETR. The 407 Transitway, and the stations will initially be designed to support the busway service with provisions for future conversion to light-rail transit technology. Portions of the 407 Transitway crossing the major hydro corridor within the project area will be located below ground.

Arcadis Canada Inc. was retained by LGL Limited (LGL), on behalf of Parsons Corporation (Parsons), to complete an Air Quality Impact Assessment (AQIA) in support of the MTO's Transit Project Assessment Process (TPAP), as prescribed in Ontario Regulation 213/08 Transit Projects and Metrolinx Undertakings, for the 407 Transitway project (the "Project"). The design of the 407 Transitway developed by Parsons was used for this AQIA. This AQIA focuses on the potential BRT impacts. The Project study area is presented in Figure 1-1.

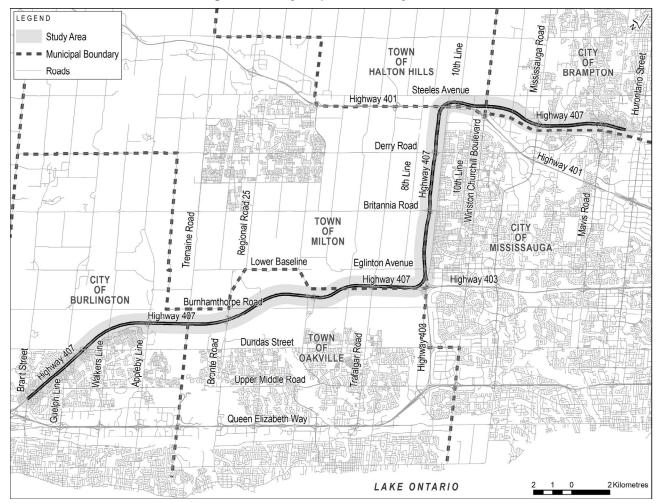


Figure 1-1 Key Map of the Study Area

### 1.2 Summary of Impact Assessment Methodology

In accordance with the detailed work plan developed in consultation with the MTO, an air quality assessment was conducted for the Project with and without the planned 407 Transitway for the future reference year 2041.

The assessment estimated the net change in pollutant emissions due to the 407 Transitway in the 407 ETR transportation corridor for each pollutant of concern: carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulphur dioxide (SO<sub>2</sub>), volatile organic compounds (VOCs) (including 1,3-butadiene, acrolein, acetaldehyde, benzene, and formaldehyde), benzo[a]pyrene, which is a key representative of polycyclic aromatic hydrocarbons (PAHs), total suspended particulate (TSP), particulate matter less than 10 microns (PM<sub>10</sub>), and particulate matter less than 2.5 microns

(PM<sub>2.5</sub>). To evaluate the potential impact of the Project on ambient air quality, the CAL3QHCR specialized transportation dispersion model was used to predict concentrations for those contaminants of concern. Model-predicted concentrations were added to local background concentrations and compared to applicable provincial and/or federal ambient air quality criteria. The air quality criteria used for this assessment are outlined in Section 2.

Where there are estimated increases in emissions due to the Project, their significance relative to emissions incurred on 407 ETR "now" (i.e., 2018) and in the future reference year was estimated. As established by MTO, an increase of more than 10% is deemed significant.

In addition to modelling air contaminants of concern, the change in greenhouse gas (GHG) emissions was also evaluated following the assessment approach outlined in MTO's "Environmental Guide for Assessing and Mitigating the Air Quality Impacts and Greenhouse Gas Emissions of Provincial Transportation Projects" (MTO 2012). The effects of the Project on climate change is considered and the assessment follows the draft guidance for the Consideration of Climate Change in Environmental Assessment in Ontario (MOECC 2016a). Details of the complete GHG and climate change assessment methodology are provided in Sections 5 and 6.

### 1.3 Report Organization

In addition to this introductory chapter, this report includes the following information:

- Chapter 2 Describes the applicable ambient air quality criteria
- Chapter 3 Describes the study area
- Chapter 4 Discusses the air quality assessment methodology
- Chapter 5 Outlines the results of the air quality impact assessment
- Chapter 6 Discusses the project in relation to climate change
- Chapter 7 Outlines mitigation measures (if required)
- Chapter 8 Outlines the conclusions of the assessment and provides recommendations
- Chapter 9 Summarizes references used throughout the assessment

### 2 AMBIENT AIR QUALITY CRITERIA

The Ontario Ministry of the Environment, Conservation and Parks (MECP) has developed Ambient Air Quality Criteria (AAQC) as a measure to protect outdoor air quality. An AAQC is a desirable concentration based on the protection against adverse effects on health and/or the environment and is meant to be used to assess general or "ambient" air quality conditions from all sources. As a result, the addition of a background contribution (i.e., sources other than project-related activities) is required before comparing to an AAQC.

The purpose of this assessment is to evaluate the potential effects of the proposed Project on ambient air quality. Therefore, the model-predicted concentrations were added to local background concentrations and compared with the applicable AAQCs. Details about the selected criteria for each air contaminant of concern are provided in the sections below.

### 2.1 Fine Particulate Matter (PM<sub>2.5</sub>), Particulate Matter (PM<sub>10</sub>) and TSP

Particulate matter less than 2.5 microns ( $PM_{2.5}$ ) is known as "respirable" particulate since the particles are generally small enough to be drawn in and deposited into the deepest portions of the lungs. In particular, many studies have indicated that airborne  $PM_{2.5}$  is associated with various adverse health effects in people who have compromised respiratory systems from conditions such as asthma, chronic pneumonia and cardiovascular disease. Anthropogenic sources, such as combustion of fossil fuels like diesel, tend to be the largest contributor to  $PM_{2.5}$  levels in the environment.

Footnote 8 of Ontario's Ambient Air Quality Criteria (AAQC) document (MECP 2019) presents an ambient air quality guide for decision making for  $PM_{2.5}$  of 30  $\mu g/m^3$  (24-hour average), which is based on the Canadian Council of the Ministers of the Environment (CCME) Canada-Wide Standard (CWS) for fine particulate matter (CCME 2000). However, the CCME has since replaced the CWS with a Canadian Ambient Air Quality Standard (CAAQS) which was officially enacted under the Canadian Environmental Protection Act on May 25, 2013 (CCME 2012). The 24-hour  $PM_{2.5}$  CWS has been revised to a CAAQS of 28  $\mu g/m^3$  (effective in 2015) and to 27  $\mu g/m^3$  (effective in 2020). The CCME has also established an annual  $PM_{2.5}$  CAAQS for 2015 (10.0  $\mu g/m^3$ ) and for 2020 (8.8  $\mu g/m^3$ ).

The new standards are considered in this assessment in lieu of the current CWS for  $PM_{2.5}$  identified in the MECP AAQC document. Since the operational life of the Project will extend beyond 2020, the 2020 CAAQS were applied in this assessment. Table 2-1 presents the  $PM_{2.5}$  ambient air quality criteria used in this assessment.

Particulate matter less than 10 microns ( $PM_{10}$ ) is considered the filterable size particulate, however it has its own health effects and therefore was included in this assessment. Total suspended particulate matter (TSP) is a measure of the particles in the atmosphere that are too small to settle out quickly, generally this means particulates with an aerodynamic diameter of less

than 44 µm. The ambient TSP criteria were set to prevent a reduction in visibility as a result of particles scattering or absorbing light coming from both the object and its background.

Table 2-1 below presents the PM<sub>2.5</sub>, PM<sub>10</sub> and TSP ambient air quality criteria used in this assessment.

Pollutant	Averaging Period	Source	Air Quality Criteria
PM <sub>2.5</sub>	24-hour	CAAQS	27 μg/m³ <sup>[a]</sup>
F IVI2.5	Annual	CAAQS	8.8 µg/m³ <sup>[b]</sup>
PM <sub>10</sub>	24-hour	AAQC	50 μg/m <sup>3</sup>
TSP	24-hour	AAQC	120 μg/m³
15P	Annual	AAQC	60 μg/m <sup>3 [c]</sup>

Table 2-1 PM Ambient Air Quality Assessment Criteria

#### Notes:

### 2.2 Criteria Air Contaminants

Criteria air contaminants (CACs) including nitrogen oxides ( $NO_x$ ), sulphur oxides (SOx) and CO are considered common pollutants released into the air by activities such as the combustion of fossil fuels. Ozone is a CAC related to transportation; however, it is considered a secondary pollutant since it is formed through the photochemical reactions between  $NO_x$  and VOCs directly emitted from transportation sources. Although ozone has not been included in this assessment, the primary pollutants, including the ozone precursors, have all been assessed as part of this study.

Nitrogen dioxide (NO<sub>2</sub>) is a reddish brown, highly reactive gas that can be formed during high-temperature combustion in the presence of air. NO<sub>x</sub> is the sum of NO, NO<sub>2</sub> and other oxides of nitrogen that play a major role in the formation of ozone. NO<sub>2</sub> has adverse health effects at much lower concentrations than NO. Consequently, the Ontario AAQC is based on the health effects of NO<sub>2</sub>. The AAQC for NO<sub>2</sub> is 400  $\mu$ g/m³ for a 1-hour averaging period and 200  $\mu$ g/m³ for a 24-hour averaging period. There is currently no annual AAQC for NO<sub>2</sub>. In November 2017, the CCME announced new 1-hour and annual average CAAQS for NO<sub>2</sub>. The 1-hour standard is 60 ppb or 119  $\mu$ g/m³ (effective in 2020) and 42 ppb or 83  $\mu$ g/m³ (effective in 2025). The annual standard for 2020 is 17 ppb or 34  $\mu$ g/m³ (effective in 2020) and 12 ppb or 24  $\mu$ g/m³ (effective in 2025). The 1-hour CAAQS for NO<sub>2</sub> are more stringent than the AAQC. Since the operational life of the Project will extend beyond 2025, the 2025 CAAQS were applied in this assessment.

<sup>[8]</sup> The 2020 CAAQS for 24-hour PM<sub>2.5</sub> is based on the 98<sup>th</sup> percentile of 24-hour average concentrations, averaged over 3 consecutive years (CCME 2012).

<sup>[</sup>b] The 2020 CAAQS for annual PM<sub>2.5</sub> is based on the 3 consecutive years average of the average annual concentrations (CCME 2012).

<sup>[</sup>c] Geometric Mean.

Sulphur dioxide ( $SO_2$ ) is a colourless gas that smells like burnt matches. It can be oxidized to sulphur trioxide, which in the presence of water vapour, is readily transformed to sulphuric acid mist.  $SO_2$  can be oxidized to form acid aerosols, and is a precursor of particulate sulphates, which are one of the main components of respirable particulates in the atmosphere. The AAQC for  $SO_2$  24-hour averaging period is 275  $\mu$ g/m³, and 55  $\mu$ g/m³ for an annual averaging period. In October 2016, the CCME officially enacted new 1-hour and annual average CAAQS for  $SO_2$  which are more stringent than the current AAQCs. The 1-hour  $SO_2$  CAAQS is 70 ppb or 193  $\mu$ g/m³ (effective in 2020) and 65 ppb or 179  $\mu$ g/m³ (effective in 2025). The CCME has also established an annual  $SO_2$  CAAQS for 2020 (5.0 ppb or 14  $\mu$ g/m³) and for 2025 (4.0 ppb or 11  $\mu$ g/m³). The 2025 CAAQS were applied in this assessment, as they were applied in the assessment of previous phase of the 407 Transitway. In March 2018, the MECP updated AAQC for  $SO_2$  that will take effect on July 1, 2023 and is more stringent for the 1-hour averaging period. The AAQC are 100  $\mu$ g/m³ and 10  $\mu$ g/m³ for the 1-hour and annual averaging periods, respectively.

Carbon monoxide (CO) is a colourless, odourless gas, formed when hydrocarbon-based fuels are not completely combusted. It is a component of motor vehicle exhaust, with high concentrations of CO generally occurring in areas with heavy traffic congestion. The AAQC for CO is 36,200 µg/m³ for a 1-hour averaging period and 15,700 µg/m³ for an 8-hour averaging period.

The ambient air quality criteria used in this assessment for criteria air contaminants are summarized in Table 2-2.

Dollutant	Ambient Air Quality Assessment Criteria (µg/m³)					
Pollutant	Annual	24-hour	8-hour	1-hour		
$NO_2$	24 <sup>[b]</sup> (CAAQS)	200 (AAQC)		83 <sup>[a]</sup> (CAAQS)		
SO <sub>2</sub>	10 <sup>[c,d]</sup> (AAQC, CAAQS)	275 (AAQC)		179 <sup>[</sup> 100 <sup>[c]</sup> (AAQC)		
CO			15,700 (AAQC)	36,200 (AAQC)		

Table 2-2 Ambient Air Quality Assessment Criteria for NO<sub>2</sub>, SO<sub>2</sub> and CO

#### Notes:

<sup>[</sup>a] The 2025 CAAQS is based on the 3-year average of the annual 98<sup>th</sup> percentile of the NO<sub>2</sub> daily maximum 1-hour average concentrations (CCME 2017).

<sup>[</sup>b] The 2025 CAAQS is based on the arithmetic average over a single calendar year of all 1-hour average NO<sub>2</sub> concentrations (CCME 2017).

<sup>&</sup>lt;sup>[c]</sup> The annual and 1-hour AAQC for SO<sub>2</sub> will take effect on July 1, 2023 (MECP 2018).

<sup>[</sup>d] The 2025 CAAQS is based on the arithmetic average over a single calendar year of all 1-hour average SO<sub>2</sub> concentrations (CCME 2016).

### 2.3 Volatile Organic Compounds

Volatile organic compounds (VOCs) are defined technically as organic compounds having a saturation vapour pressure greater than 0.1 mm of mercury at 25 degrees Celsius (°C) and standard atmospheric pressure. Certain VOCs warrant special concern because they are capable of being transported very long distances in the atmosphere and play an important role in the formation of ground-level ozone and fine particles. As part of this assessment, six (6) typical VOCs that are emitted from vehicles were included: acetaldehyde, acrolein, benzene, 1-3-butadiene, formaldehyde, and benzo[a]pyrene, which is a key representative of polycyclic aromatic hydrocarbons (PAHs).

The ambient air quality criteria used in this assessment for each of these VOCs are presented in Table 2-3.

Ambient Air Quality Criteria (µg/m³) **Pollutant** Annual 24-hour 1-hour Acetaldehyde 500 Acrolein --0.4 4.5 Benzene 2.3 --0.45 1-3 Butadiene 2 10 65 Formaldehyde Benzo[a]pyrene 5.0E-05 1.0E-05

Table 2-3 Ambient Air Quality Criteria for Selected VOC

#### 2.4 Greenhouse Gases

Fossil fuel combustion is the main source of GHG emissions related to this Project, which results in emissions of carbon dioxide ( $CO_2$ ), methane ( $CH_4$ ), and nitrous oxide ( $N_2O$ ). For a given mixture of different GHGs, the carbon dioxide equivalent ( $CO_2e$ ) is the unit of measure used to describe the amount of  $CO_2$  that would have the same global warming potential as a mixture of GHGs when measured over a time period (typically a 100-year period). The  $CO_2e$  for a gas is calculated by multiplying the mass of the gas by its global warming potential (GWP). For example, the GWP for  $CH_4$  over 100 years is 25 and for  $N_2O$  is 298 (IPCC 2007). This means that the emission of 1 tonne of  $CH_4$  is equivalent, in its warming potential, to the emission of 25 tonnes of  $CO_2$ , and the emission of 1 tonne of  $N_2O$  is equivalent to the emission of 298 tonnes of  $CO_2$ .

There are no ambient air quality criteria for greenhouse gases.

### 3 STUDY AREA DESCRIPTION

The 407 Transitway will be a high-speed fully grade-separated facility on a separate right-of-way running parallel and crossing over or under 407 ETR. This 43 km section includes eight transit stations including: Dundas Street, Appleby Line, Bronte Road, Trafalgar Road, Britannia Road, Derry Road, Lisgar and Mississauga Road.

The station design will include bus access to and egress from the stations, bus platforms, layout of the access(es) to/from the arterial road, integration with local transit (bus platforms), parking spaces, passenger pick up and drop off (PPUDO), shelters, buildings, and other amenities. The 407 Transitway and its stations will initially be designed to support the busway service with provisions for potential conversion to light-rail transit technology if needed. The study area including the proposed 407 Transitway alignment and stations is presented in Figure 3-1.

In the first segment of the study area, eastward from west of Brant Street to shortly north of Highway 5 (Dundas Street), there are several heavily traveled roadways such as Brant Street, Guelph Line, Highway 5 (Dundas Street) intersecting the 407 ETR right-of-way (407 ROW). Land uses include residential subdivisions from Brant Street to Highway 5 on both sides of the 407 ETR. A busy commercial plaza is adjacent to Brant Street. Lands immediately north of Highway 5 are vacant undeveloped lands.

Moving north and east of Highway 5, there are residential subdivisions within 250 m to 300 m south of 407 ETR bound by Walkers Line and Highway 20 (Appleby Line), as well as large commercial plaza on both sides of Appleby Line.

Eastward from Appleby Line to Ninth Line Road/Highway 403, the study area is characterized by a mix of vacant undeveloped lands and agricultural lands with associated residential dwellings. There are no large residential subdivisions within this segment of the study area, however, there are some single-family residential dwellings in close proximity of 407 ETR on both sides. A few minor industrial and commercial sites are also present. A rail line crosses 407 ETR east of Appleby Line.

At the interchange of Highway 403 and Ninth Line Road, the study area moves northwest until its intersection with Highway 401, where it turns east. The study area runs east from there until its end west of Winston Churchill Boulevard. Within this segment of the study area, there is a large residential subdivision located immediately east of 407 ETR. There are several heavily traveled roadways such as Nine Line Road, Eglinton Avenue West, Britannia Road West, Derry Road West and Highway 401. The lands west of 407 ETR are a mix of vacant undeveloped lands, agricultural lands and scattered single dwelling residences. The Milton GO line is located at the north end of the residential subdivision east of Ninth Line Road and intersects the study area just south of Highway 401.

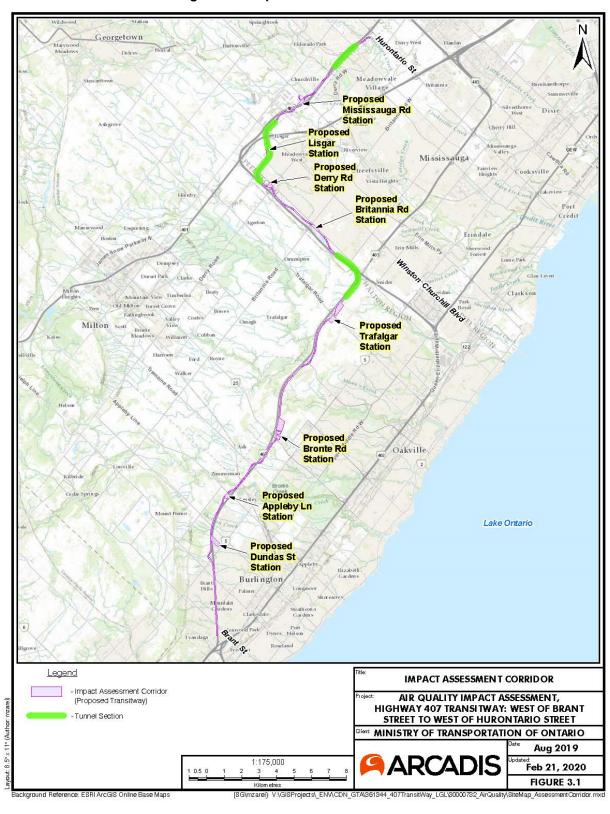


Figure 3-1 Impact Assessment Corridor

East of the Highway 401 interchange up to the extent of the study area, land uses are predominantly industrial and commercial. A number of subdivisions have been developed near Financial Drive and Mavis Road. Residences on the north side of Highway 407 are located closer to the existing highway network, while residences to the south are located further away due to the presence of a large hydro corridor.

Due to the sources as described above, the primary source of air contaminants within the study area are from the 407 ETR, the Highway 403 and Highway 401 interchanges, and the arterial roadways. Other insignificant minor sources of contaminants include sources of combustion from the residential and commercial properties within the study area.

Sensitive receptors, including both existing and proposed residences, were identified using recent aerial photography, and by field reconnaissance. The sensitive receptors were identified to represent groups of receptors with similar exposure to the 407 Transitway. Due to a large number of residences along the whole corridor, only the closest residences are selected as sensitive receptor locations. There are several schools adjacent to the 407 Transitway that were not included in this assessment as they are further set back than surrounding residences and are expected to experience lower level impacts. The two hundred eleven (211) sensitive receptors were identified and have been represented by twelve groups (following the approach used in Noise and Vibration Impact Assessment for this segment of the 407 Transitway). The sensitive receptors are summarized in Table 3-1. and illustrated in Figure 3.2.a through Figure 3.13-b.

Table 3-1 Summary of Sensitive Receptors

ID	No. of Units Represented	UTM Coordinates X (m)	UTM Coordinates Y (m)	Type of Unit	Segment
NSA1_R01	8	594674	4799594	Residential (Single dwelling)	NSA1
NSA1_R02	10	594665	4799756	Residential (Single dwelling)	NSA1
NSA1_R03	16	594650	4799913	Residential (Single dwelling)	NSA1
NSA1_R04	7	594651	4800162	Residential (Single dwelling)	NSA1
NSA1_R05 [1]	21	594616	4800335	Residential (Condominium)	NSA1
NSA1_R06	6	594791	4800139	Residential (Townhouse)	NSA1
NSA1_R07	6	594786	4800197	Residential (Townhouse)	NSA1
NSA1_R08	6	594778	4800225	Residential (Townhouse)	NSA1
NSA1_R09	6	594774	4800315	Residential (Townhouse)	NSA1
NSA1_R10	6	594770	4800357	Residential (Townhouse)	NSA1
NSA1_R11	8	594776	4800399	Residential (Townhouse)	NSA1
NSA1_R12	16	594786	4800525	Residential (Townhouse)	NSA1
NSA1_R13	15	594776	4800660	Residential (Single dwelling)	NSA1
NSA1_R14	6	594781	4800822	Residential (Single dwelling)	NSA1
NSA1_R15	16	594761	4800862	Residential (Townhouse)	NSA1
NSA1_R16	8	594763	4800980	Residential (Townhouse)	NSA1
NSA1_R17	8	594795	4801018	Residential (Townhouse)	NSA1

Table 3-1 (Cont'd) Summary of Sensitive Receptors

ID	No. of Units Represented	UTM Coordinates X (m)	UTM Coordinates Y (m)	Type of Unit	Segment
NSA1 R18	5	594623	4800625	Residential (Townhouse)	NSA1
NSA1_R19	17	594623	4800722	Residential (Townhouse)	NSA1
NSA1_R20	5	594557	4800881	Residential (Single dwelling)	NSA1
NSA1_R21	5	594588	4800970	Residential (Single dwelling)	NSA1
NSA1_R22	5	594552	4801109	Residential (Single dwelling)	NSA1
NSA1_R23	9	594550	4801175	Residential (Townhouse)	NSA1
NSA1_R24	8	594525	4801269	Residential (Townhouse)	NSA1
NSA1_R25	6	594496	4801307	Residential (Townhouse)	NSA1
NSA1_R26	16	594428	4801425	Residential (Townhouse)	NSA1
NSA1_R27	16	594489	4801559	Residential (Townhouse)	NSA1
NSA1_R28	9	594542	4801657	Residential (Townhouse)	NSA1
NSA1_R29	3	594826	4801415	Residential (Single dwelling)	NSA1
NSA1_R30	8	594797	4801476	Residential (Single dwelling)	NSA1
NSA1_R31	6	594744	4801656	Residential (Single dwelling)	NSA1
NSA1_R32	10	594751	4801726	Residential (Single dwelling)	NSA1
NSA1_R33	8	594725	4801970	Residential (Single dwelling)	NSA1
NSA1_R34	7	594535	4801749	Residential (Single dwelling)	NSA1
NSA1_R35	7	594532	4801893	Residential (Single dwelling)	NSA1
NSA1_R36	7	594526	4802041	Residential (Single dwelling)	NSA1
NSA1_R37	12	594710	4802076	Residential (Single dwelling)	NSA1
NSA1_R38	13	594688	4802405	Residential (Single dwelling)	NSA1
NSA1_R39	11	594521	4802121	Residential (Single dwelling)	NSA1
NSA1_R40	11	594513	4802376	Residential (Single dwelling)	NSA1
NSA1_R41	7	594694	4802532	Residential (Single dwelling)	NSA1
NSA1_R42	9	594499	4802515	Residential (Single dwelling)	NSA1
NSA1_R43	6	594498	4802684	Residential (Single dwelling)	NSA1
NSA1_R44	7	594713	4802647	Residential (Single dwelling)	NSA1
NSA2_R01	1	594501	4802752	Residential (Single dwelling)	NSA2
NSA2_R02	2	594494	4802797	Residential (Single dwelling)	NSA2
NSA2_R03	9	594498	4802844	Residential (Single dwelling)	NSA2
NSA2_R04	9	594678	4802885	Residential (Single dwelling)	NSA2
NSA2_R05	9	594653	4802987	Residential (Single dwelling)	NSA2
NSA2_R06	9	594654	4803123	Residential (Single dwelling)	NSA2
NSA2_R07	7	594482	4803022	Residential (Townhouse)	NSA2
NSA2_R08	6	594460	4803130	Residential (Townhouse)	NSA2
NSA2_R09	6	594475	4803095	Residential (Townhouse)	NSA2
NSA2_R10	1	594638	4803153	Residential (Single dwelling)	NSA2
NSA2_R11	1	594630	4803232	Residential (Single dwelling)	NSA2
NSA2_R12	1	594625	4803319	Residential (Single dwelling)	NSA2
NSA2_R13	6	594462	4803176	Residential (Townhouse)	NSA2

Table 3-1 (Cont'd) Summary of Sensitive Receptors

ID	No. of Units Represented	UTM Coordinates X (m)	UTM Coordinates Y (m)	Type of Unit	Segment
NSA2 R14	2	594460	4803266	Residential (Townhouse)	NSA2
NSA2 R15	18	594449	4803388	Residential (Single dwelling)	NSA2
NSA2 R16	22	594435	4803561	Residential (Single dwelling)	NSA2
NSA2 R17	4	594405	4803732	Residential (Single dwelling)	NSA2
NSA2 R18	4	594367	4803752	Residential (Single dwelling)	NSA2
NSA2 R19	3	594627	4803574	Residential (Single dwelling)	NSA2
NSA2 R20	3	594613	4803735	Residential (Single dwelling)	NSA2
NSA2_R21	22	594645	4804199	Residential (Townhouse)	NSA2
NSA2_R22	6	594721	4804044	Residential (Single dwelling)	NSA2
NSA2 R23	9	594653	4803930	Residential (Single dwelling)	NSA2
NSA2 R24	2	594218	4803797	Residential (Single dwelling)	NSA2
NSA2 R25	24	594907	4804554	Residential (Townhouse)	NSA2
NSA2 R26	24	595027	4804704	Residential (Townhouse)	NSA2
NSA2_R27	3	594869	4804845	Residential (Single dwelling)	NSA2
NSA2_R28	10	594757	4804999	Residential (Single dwelling)	NSA2
NSA2 R29	3	594694	4805167	Residential (Single dwelling)	NSA2
NSA2_R30 [2]	2	594676	4805239	Residential (Single dwelling)	NSA2
NSA2_R31 [2]	10	594707	4805376	Residential (Single dwelling)	NSA2
NSA2 R32	1	594796	4805514	Residential (Single dwelling)	NSA2
NSA2 R33	2	594860	4805662	Residential (Single dwelling)	NSA2
NSA2 R34	3	594895	4805723	Residential (Single dwelling)	NSA2
NSA3 R01	5	594863	4806019	Residential (Single dwelling)	NSA3
NSA3_R02	6	594955	4806237	Residential (Single dwelling)	NSA3
NSA3_R03	5	595033	4806535	Residential (Single dwelling)	NSA3
NSA3_R04	1	595239	4806977	Residential (Single dwelling)	NSA3
NSA3_R05	11	595432	4807106	Residential (Single dwelling)	NSA3
NSA3_R06	1	594784	4807774	Residential (Single dwelling)	NSA3
NSA4_R01	1	597029	4809117	Residential (Single dwelling)	NSA4
NSA4_R02	1	596595	4809542	Residential (Single dwelling)	NSA4
NSA4_R03	1	598195	4810660	Residential (Single dwelling)	NSA4
NSA4_R04	1	598356	4810625	Residential (Single dwelling)	NSA4
NSA4_R05	1	597617	4811341	Residential (Single dwelling)	NSA4
NSA5_R01	1	597874	4811951	Residential (Single dwelling)	NSA5
NSA5_R02	1	598800	4813513	Residential (Single dwelling)	NSA5
NSA6_R01	1	599286	4815037	Residential (Single dwelling)	NSA6
NSA6_R02	1	599580	4814959	Residential (Single dwelling)	NSA6
NSA6_R03	1	599652	4815027	Residential (Single dwelling)	NSA6
NSA6_R04	1	599687	4814902	Residential (Single dwelling)	NSA6
NSA6_R05	1	600593	4817010	Residential (Single dwelling)	NSA6
NSA6_R06	1	600367	4817250	Residential (Single dwelling)	NSA6

Table 3-1 (Cont'd) Summary of Sensitive Receptors

		` ,	animary or con	·	
ID	No. of Units Represented	UTM Coordinates X (m)	UTM Coordinates Y (m)	Type of Unit	Segment
NSA7_R01	1	600914	4818301	Residential (Single dwelling)	NSA7
NSA8_R01	1	601924	4820489	Residential (Single dwelling)	NSA8
NSA8_R02	1	602371	4820865	Residential (Single dwelling)	NSA8
NSA8_R03	1	602227	4820909	Residential (Single dwelling)	NSA8
NSA8_R04	1	602192	4821083	Residential (Single dwelling)	NSA8
NSA8_R05	1	602102	4821193	Residential (Single dwelling)	NSA8
NSA8_R06	1	602025	4821236	Residential (Single dwelling)	NSA8
NSA8_R07	1	601907	4821376	Residential (Single dwelling)	NSA8
NSA8_R08	1	601137	4822060	Residential (Single dwelling)	NSA8
NSA8_R09	1	601028	4822265	Residential (Single dwelling)	NSA8
NSA8_R10	1	600732	4822523	Residential (Single dwelling)	NSA8
NSA8_R11	1	600560	4822703	Residential (Single dwelling)	NSA8
NSA8_R12	1	599700	4823527	Residential (Single dwelling)	NSA8
NSA8_R13	15	601622	4821771	Residential (Single dwelling)	NSA8
NSA8_R14	16	601329	4822061	Residential (Single dwelling)	NSA8
NSA8_R15	9	600470	4822899	Residential (Single dwelling)	NSA8
NSA8_R16	8	600232	4823163	Residential (Single dwelling)	NSA8
NSA8_R17	13	600139	4823264	Residential (Townhouse)	NSA8
NSA9_R01	2	599973	4823404	Residential (Single dwelling)	NSA9
NSA9_R02	4	599540	4823797	Residential (Single dwelling)	NSA9
NSA9_R03	1	599412	4823820	Residential (Single dwelling)	NSA9
NSA9_R04	1	599244	4823981	Residential (Single dwelling)	NSA9
NSA9_R05	16	599171	4824166	Residential (Single dwelling)	NSA9
NSA9_R06	1	598919	4824282	Residential (Single dwelling)	NSA9
NSA9_R07	24	598690	4824616	Residential (Single dwelling)	NSA9
NSA9_R08	7	598393	4824909	Residential (Single dwelling)	NSA9
NSA9_R09	5	598212	4825086	Residential (Single dwelling)	NSA9
NSA9_R10	5	598039	4825271	Residential (Single dwelling)	NSA9
NSA9_R11	3	597924	4825380	Residential (Single dwelling)	NSA9
NSA9_R13	7	597792	4825520	Residential (Single dwelling)	NSA9
NSA9_R14	5	597626	4825660	Residential (Single dwelling)	NSA9
NSA9_R15	5	596631	4826242	Residential (Single dwelling)	NSA9
NSA10_R01	16	597318	4825960	Residential (Single dwelling)	NSA10
NSA10_R02	20	597128	4826180	Residential (Single dwelling)	NSA10
NSA10_R03	20	597218	4826297	Residential (Single dwelling)	NSA10
NSA10_R04	20	597350	4826471	Residential (Single dwelling)	NSA10
NSA10_R05	5	597454	4826599	Residential (Single dwelling)	NSA10
NSA10_R06	10	597540	4826711	Residential (Single dwelling)	NSA10
NSA10_R07	26	597619	4826820	Residential (Single dwelling)	NSA10
NSA10_R08	12	597744	4826972	Residential (Single dwelling)	NSA10

Table 3-1 (Cont'd) Summary of Sensitive Receptors

ID	No. of Units Represented	UTM Coordinates X (m)	UTM Coordinates Y (m)	Type of Unit	Segment
NSA10 R09	8	597780	4827041	Residential (Single dwelling)	NSA10
NSA10 R10	8	597895	4827197	Residential (Single dwelling)	NSA10
NSA10_R11	8	597938	4827248	Residential (Single dwelling)	NSA10
NSA10_R12	8	597823	4827106	Residential (Single dwelling)	NSA10
NSA10 R13	8	597863	4827159	Residential (Single dwelling)	NSA10
NSA10_R14	1	595808	4827347	Residential (Single dwelling)	NSA10
NSA10_R15	1	596028	4827858	Residential (Single dwelling)	NSA10
NSA10_R16	1	596861	4828148	Residential (Single dwelling)	NSA10
NSA11_R01	1	598444	4829343	Residential (Single dwelling)	NSA11
NSA12_R01	4	600508	4830488	Residential (Single dwelling)	NSA12
NSA12_R02	4	600506	4830464	Residential (Single dwelling)	NSA12
NSA12_R03	4	600535	4830523	Residential (Single dwelling)	NSA12
NSA12_R04	4	599958	4830811	Residential (Single dwelling)	NSA12
NSA12_R05	4	600014	4830875	Residential (Single dwelling)	NSA12
NSA12_R06	10	600060	4830917	Residential (Single dwelling)	NSA12
NSA12_R07	10	600181	4831067	Residential (Single dwelling)	NSA12
NSA12_R08	2	600484	4831029	Residential (Single dwelling)	NSA12
NSA12_R09	2	600510	4831155	Residential (Single dwelling)	NSA12
NSA12 R10	1	600610	4831208	Residential (Single dwelling)	NSA12
NSA12 R11	5	600651	4830667	Residential (Single dwelling)	NSA12
NSA12_R12	10	600712	4830756	Residential (Single dwelling)	NSA12
NSA12_R13	14	600783	4830821	Residential (Single dwelling)	NSA12
NSA12_R14	20	600890	4830972	Residential (Single dwelling)	NSA12
NSA12_R15	16	601008	4831125	Residential (Single dwelling)	NSA12
NSA12_R16	1	600685	4831327	Residential (Single dwelling)	NSA12
NSA12_R17	3	601058	4831194	Residential (Single dwelling)	NSA12
NSA12_R18	3	601092	4831245	Residential (Single dwelling)	NSA12
NSA12_R19	9	601413	4832488	Residential (Townhouse)	NSA12
NSA12_R20	10	601574	4832555	Residential (Townhouse)	NSA12
NSA12_R21	12	601621	4832630	Residential (Townhouse)	NSA12
NSA12_R22	10	601613	4832700	Residential (Townhouse)	NSA12
NSA12_R23	10	601478	4832773	Residential (Townhouse)	NSA12
NSA12_R24	8	601548	4832756	Residential (Townhouse)	NSA12
NSA12_R25	3	601706	4832845	Residential (Single dwelling)	NSA12
NSA12_R26	5	601716	4832902	Residential (Single dwelling)	NSA12
NSA12_R27	5	601741	4832943	Residential (Single dwelling)	NSA12
NSA12_R28	5	601796	4833003	Residential (Single dwelling)	NSA12
NSA12_R29	8	601848	4832996	Residential (Single dwelling)	NSA12
NSA12_R30	8	601904	4832986	Residential (Single dwelling)	NSA12
NSA12_R31	8	601966	4832997	Residential (Single dwelling)	NSA12

Table 3-1 (Cont'd) Summary of Sensitive Receptors

				I	
ID	No. of Units Represented	UTM Coordinates X (m)	UTM Coordinates Y (m)	Type of Unit	Segment
NSA12_R32	8	602028	4833041	Residential (Single dwelling)	NSA12
NSA12_R33	10	601579	4832863	Residential (Single dwelling)	NSA12
NSA12_R34	1	601849	4832177	Residential (Townhouse)	NSA12
NSA12_R35	8	601891	4832243	Residential (Townhouse)	NSA12
NSA12_R36	12	601942	4832315	Residential (Townhouse)	NSA12
NSA12_R37	6	602002	4832374	Residential (Townhouse)	NSA12
NSA12_R38	12	602051	4832446	Residential (Townhouse)	NSA12
NSA12_R39	12	602129	4832535	Residential (Townhouse)	NSA12
NSA12_R40	2	602275	4832552	Residential (Single dwelling)	NSA12
NSA12_R41	7	602245	4832674	Residential (Single dwelling)	NSA12
NSA12_R42	8	602284	4832715	Residential (Single dwelling)	NSA12
NSA12_R43	8	602336	4832753	Residential (Single dwelling)	NSA12
NSA12_R44	7	602387	4832795	Residential (Single dwelling)	NSA12
NSA12_R45	7	602435	4832830	Residential (Single dwelling)	NSA12
NSA12_R46	8	602453	4832822	Residential (Single dwelling)	NSA12
NSA12_R47	8	602487	4832864	Residential (Single dwelling)	NSA12
NSA12_R48	6	602522	4832906	Residential (Single dwelling)	NSA12
NSA12_R49	6	602650	4832997	Residential (Townhouse)	NSA12
NSA12_R50	5	602070	4833081	Residential (Single dwelling)	NSA12
NSA12_R51	3	602145	4833141	Residential (Single dwelling)	NSA12
NSA12_R52	2	602182	4833182	Residential (Single dwelling)	NSA12
NSA12_R53	18	602248	4833219	Residential (Single dwelling)	NSA12
NSA12_R54	10	602387	4833323	Residential (Single dwelling)	NSA12
NSA12_R55	5	602473	4833396	Residential (Single dwelling)	NSA12
NSA12_R56	14	602546	4833441	Residential (Single dwelling)	NSA12
NSA12_R57	16	602637	4833505	Residential (Single dwelling)	NSA12
NSA12_R58	8	602726	4833570	Residential (Single dwelling)	NSA12
NSA12_R59	7	602815	4833635	Residential (Single dwelling)	NSA12
NSA12_R60	5	602926	4833722	Residential (Single dwelling)	NSA12
NSA12_R61	3	603084	4833893	Residential (Single dwelling)	NSA12
NSA12_R62	1	602780	4833118	Residential (Single dwelling)	NSA12
NSA12_R63	6	602814	4833127	Residential (Single dwelling)	NSA12
NSA12_R64	38	602928	4833232	Residential (Single dwelling)	NSA12
NSA12_R65	6	603068	4833339	Residential (Single dwelling)	NSA12

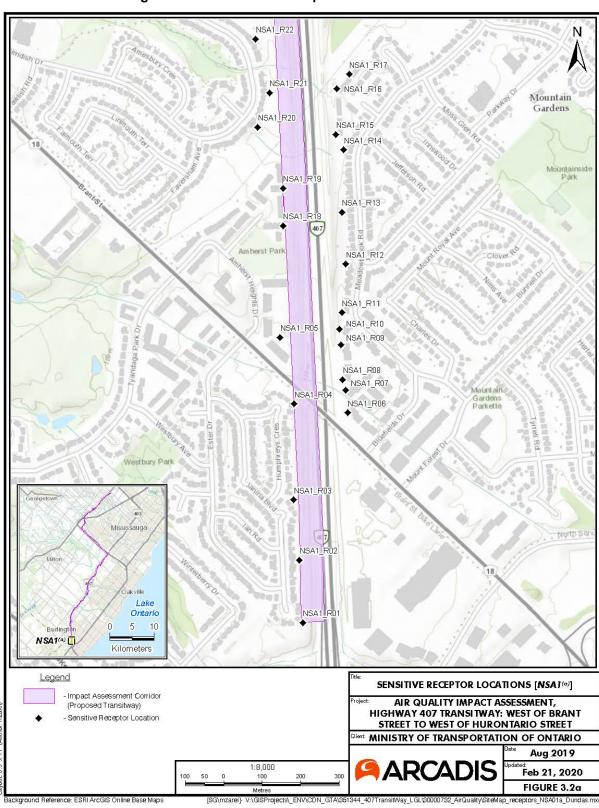


Figure 3-2a Sensitive Receptor Locations - NSA1<sup>a</sup>

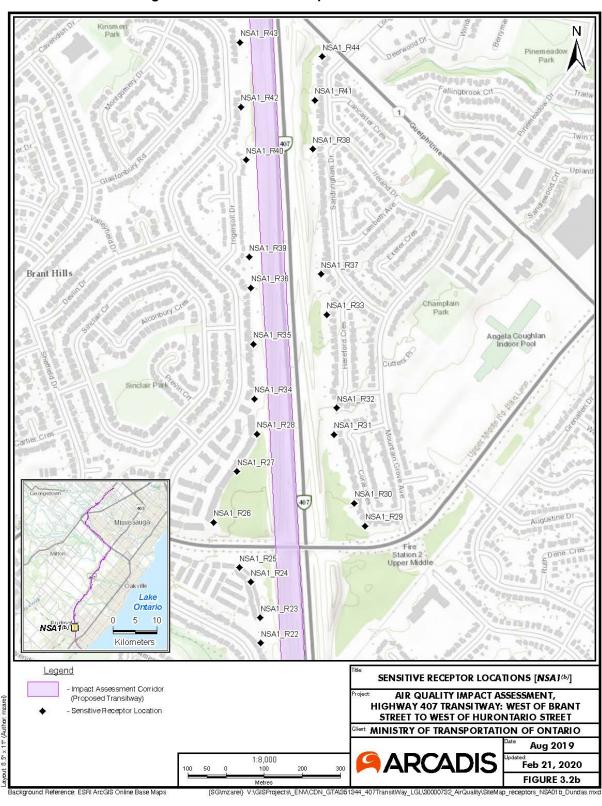


Figure 3-2b Sensitive Receptor Locations - NSA1b

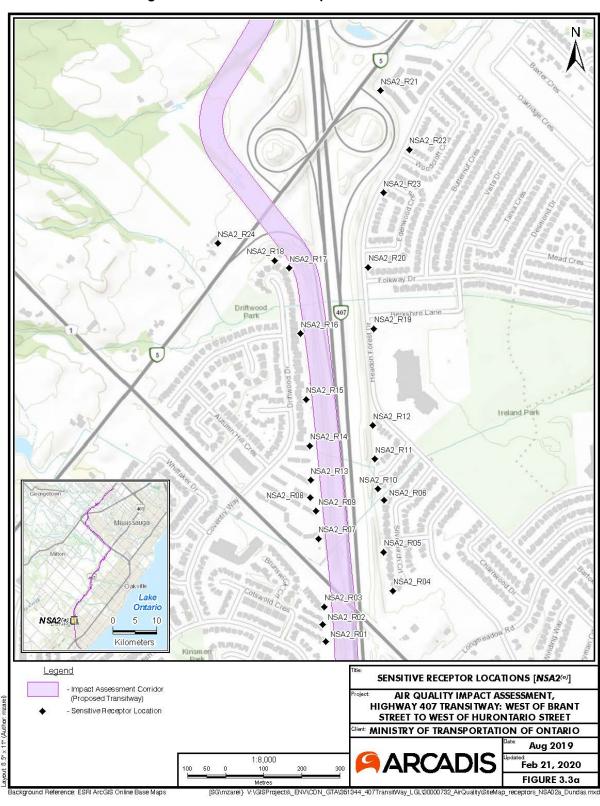


Figure 3-3a Sensitive Receptor Locations - NSA2<sup>a</sup>

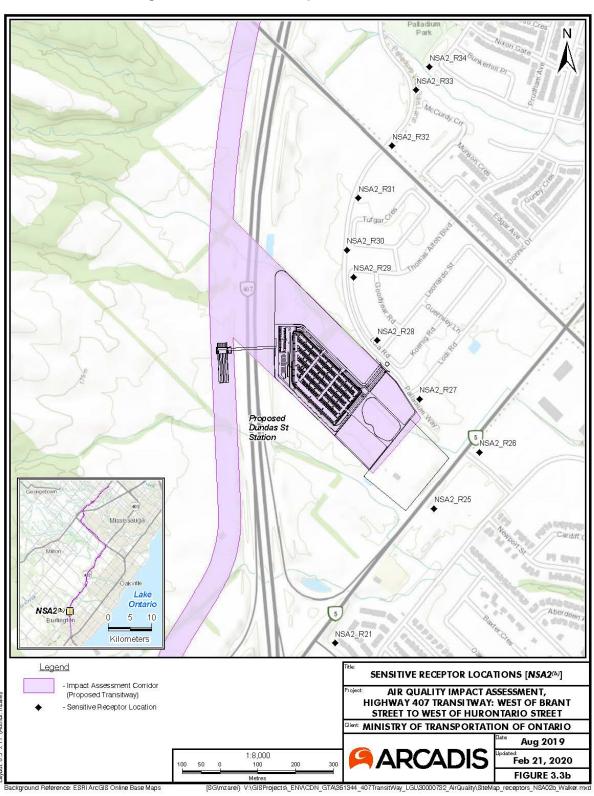


Figure 3-3b Sensitive Receptor Locations - NSA2b

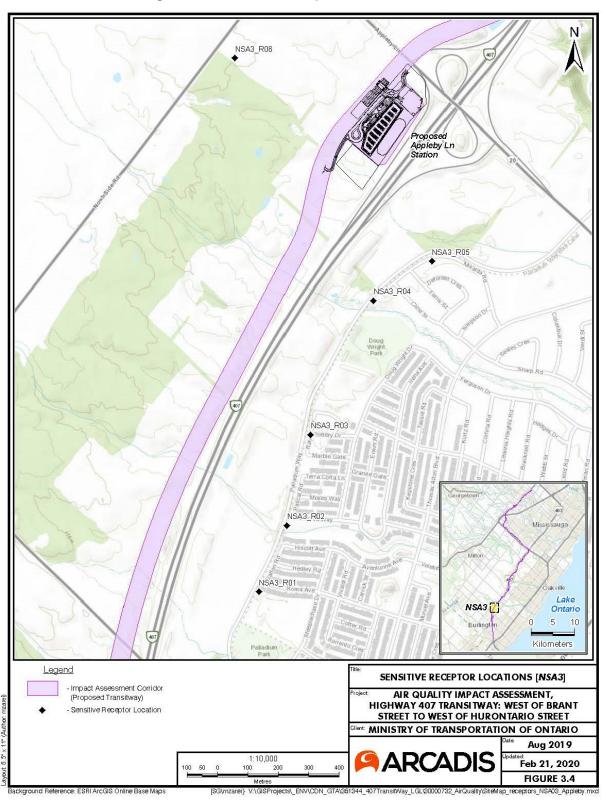


Figure 3-4 Sensitive Receptor Locations – NSA3

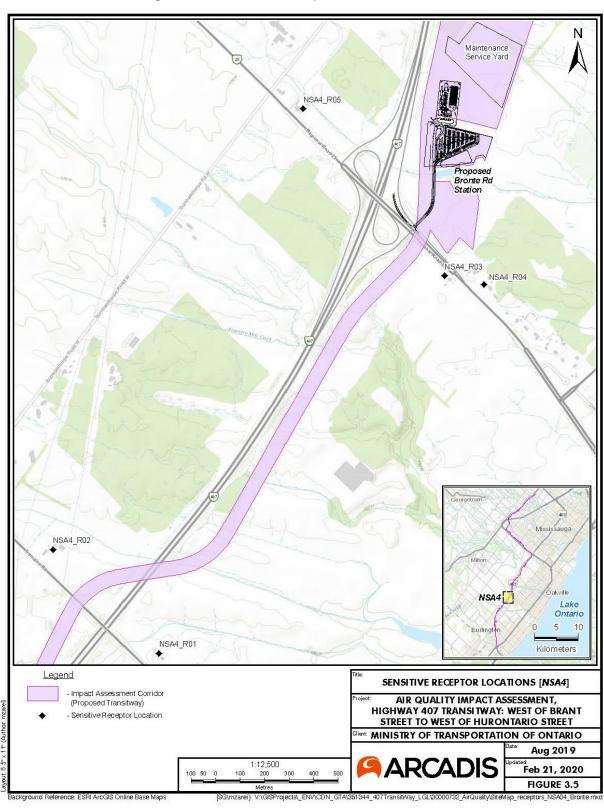


Figure 3-5 Sensitive Receptor Locations - NSA4

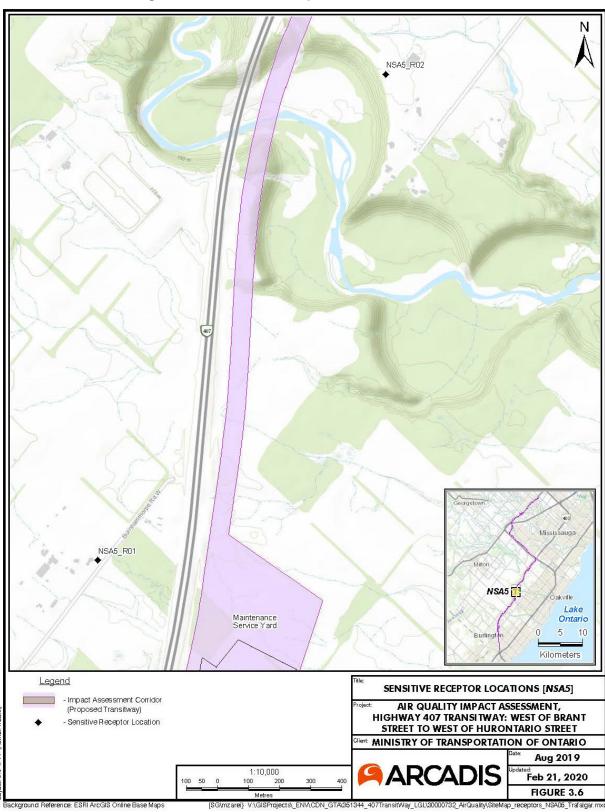


Figure 3-6 Sensitive Receptor Locations - NSA5

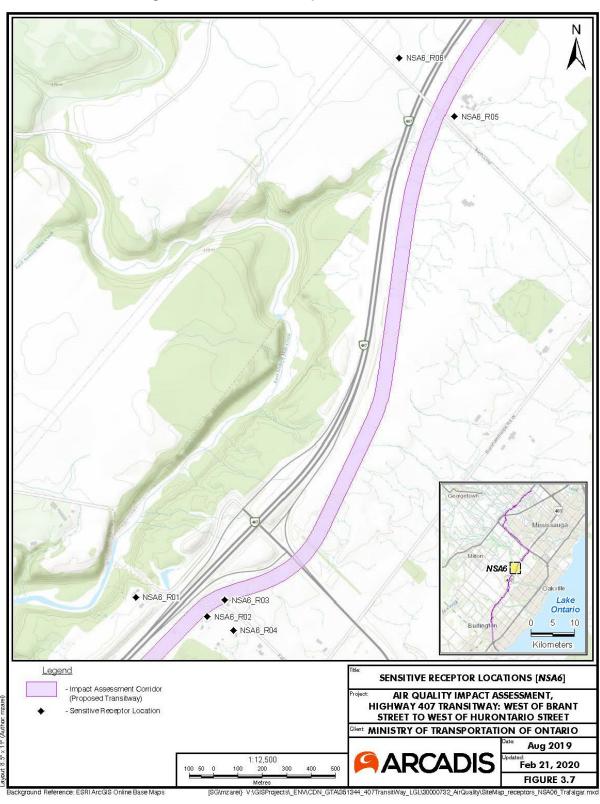


Figure 3-7 Sensitive Receptor Locations - NSA6

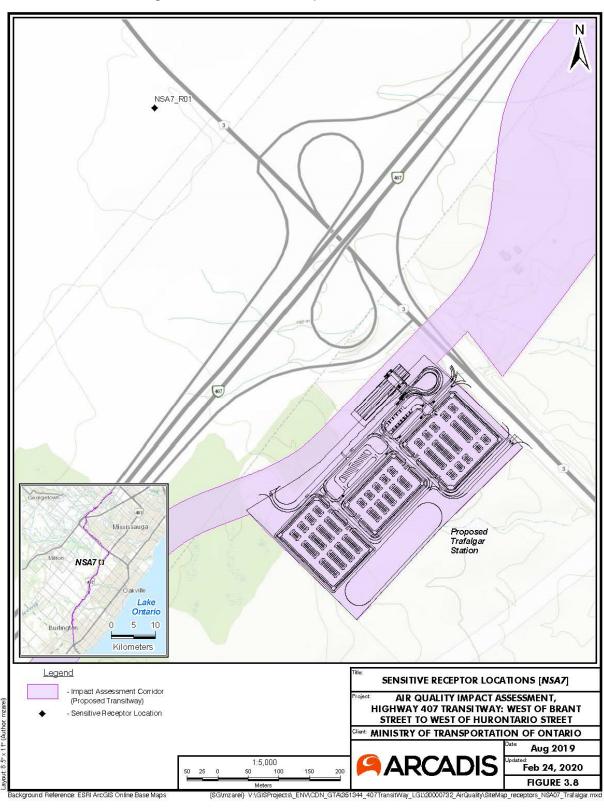


Figure 3-8 Sensitive Receptor Locations – NSA7

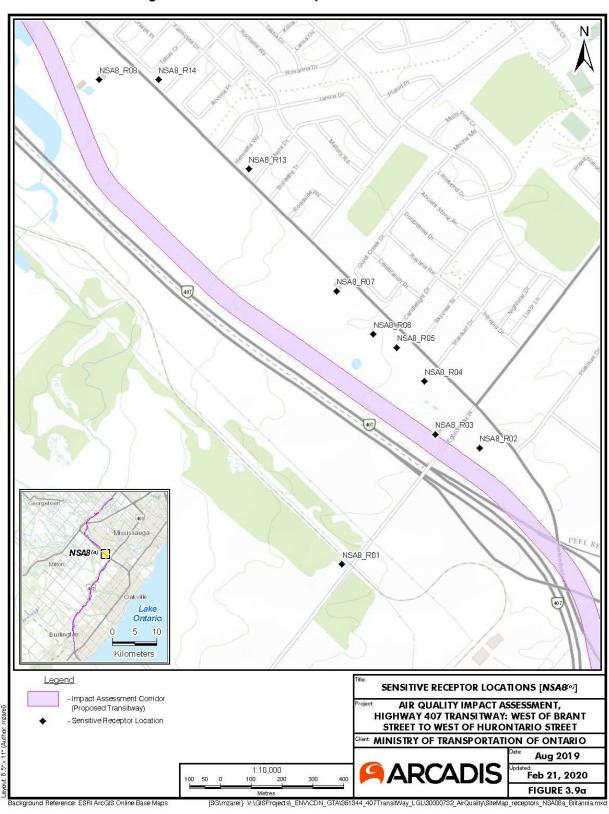


Figure 3-9a Sensitive Receptor Locations - NSA8a

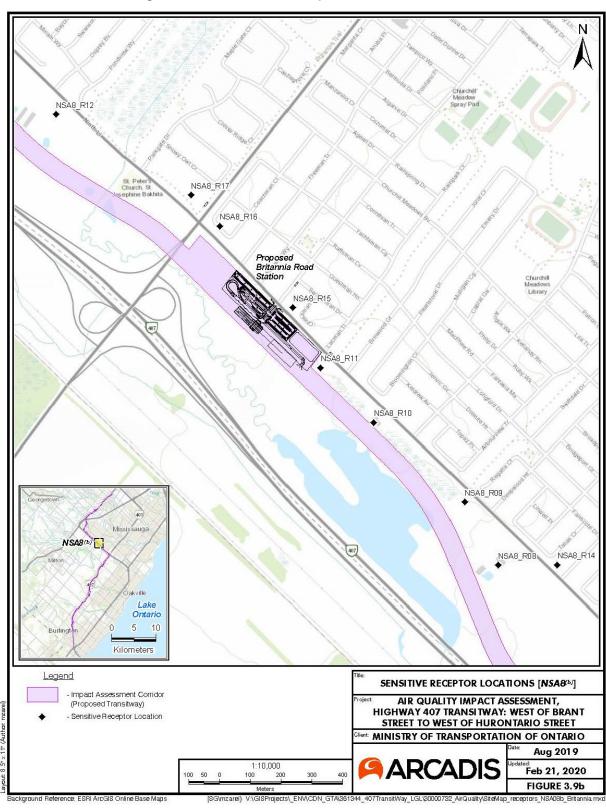


Figure 3-9b Sensitive Receptor Locations – NSA8b

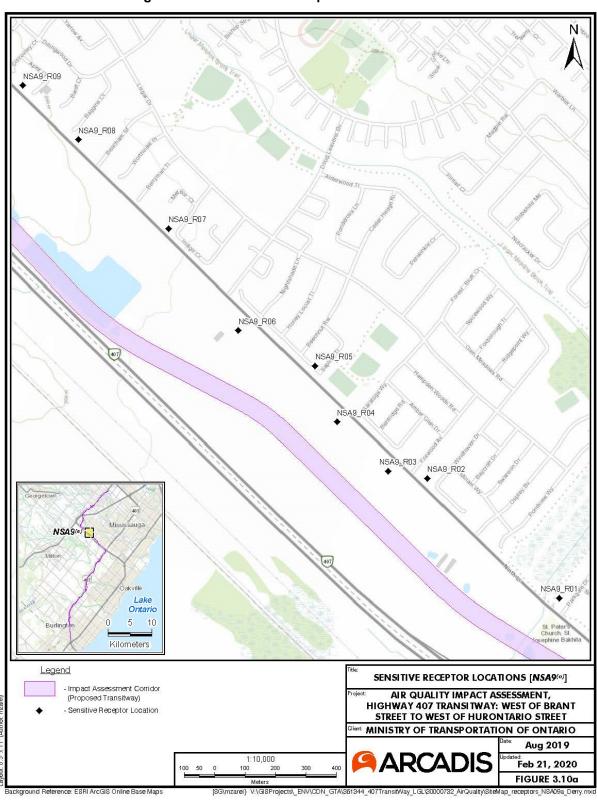


Figure 3-10a Sensitive Receptor Locations – NSA9<sup>a</sup>

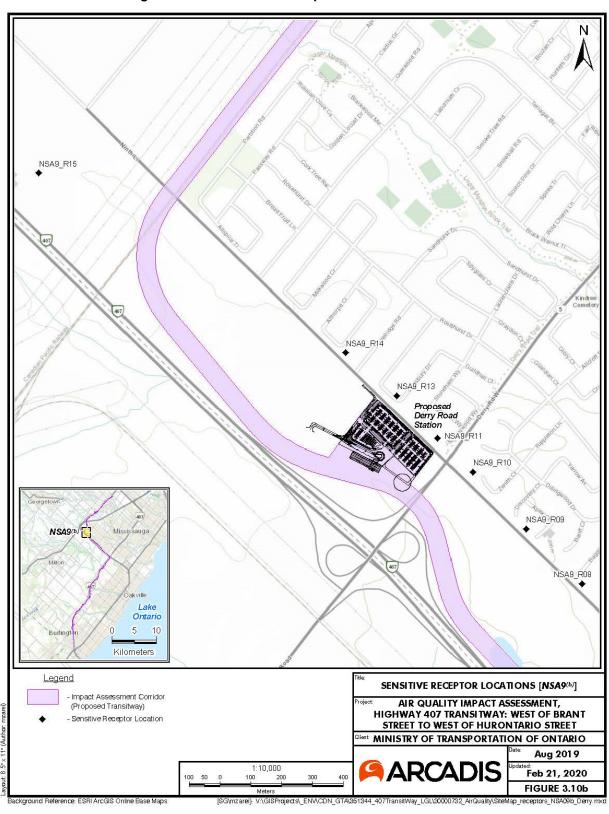


Figure 3-10b Sensitive Receptor Locations – NSA9b

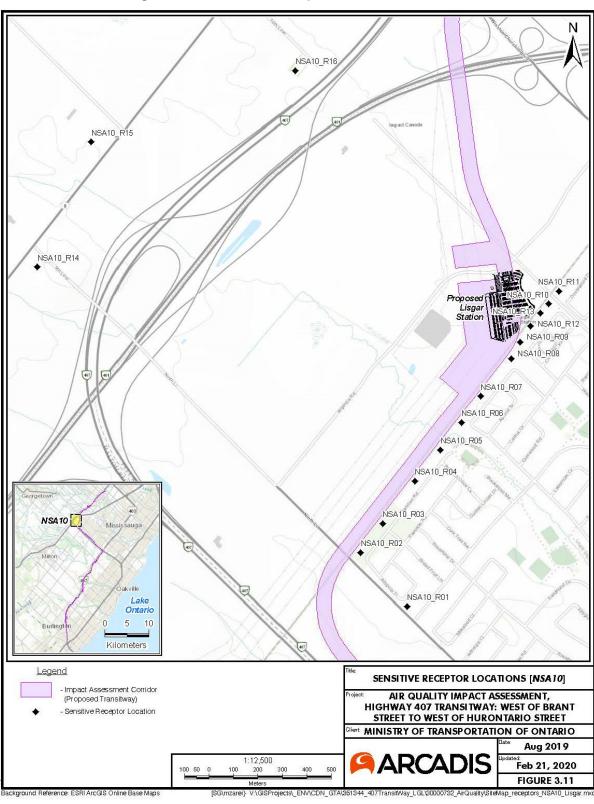


Figure 3-11 Sensitive Receptor Locations - NSA10

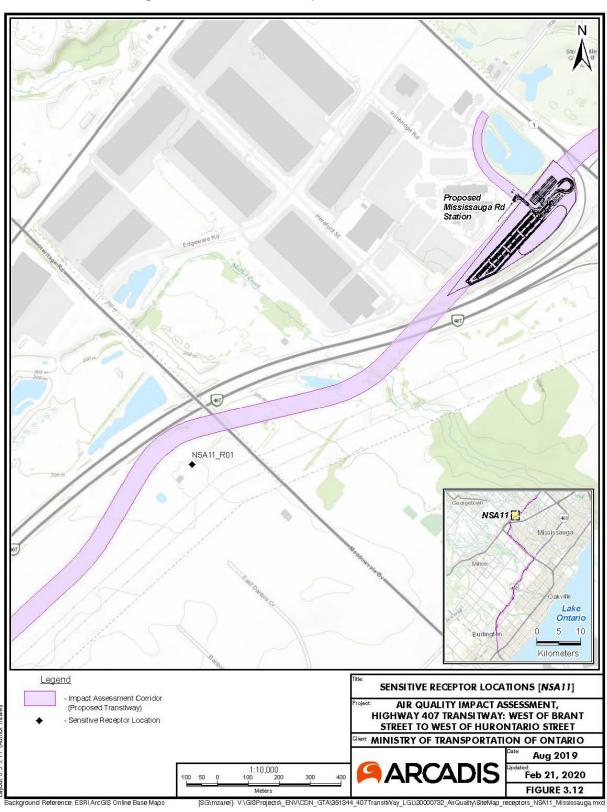


Figure 3-12 Sensitive Receptor Locations - NSA11

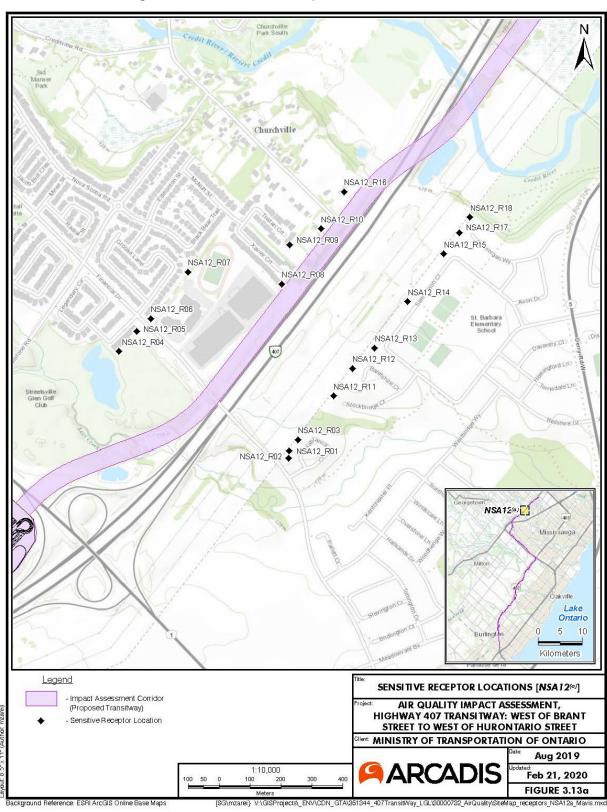


Figure 3-13a Sensitive Receptor Locations - NSA12a

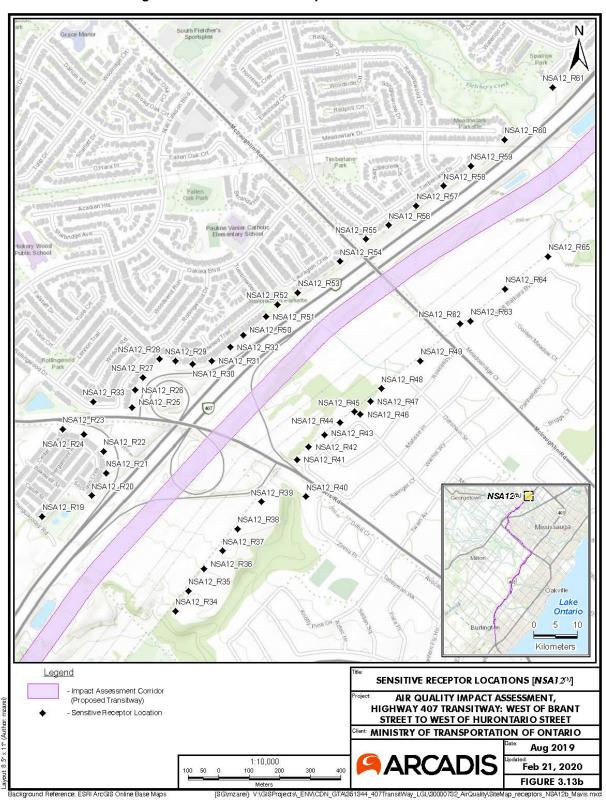


Figure 3-13b Sensitive Receptor Locations – NSA12b

## 4 AIR QUALITY IMPACT ASSESSMENT METHODOLOGY

## 4.1 Background Air Quality

Ambient background concentrations used in the air quality assessment represent the cumulative contribution of upwind sources such as industrial facilities, other roadways and transboundary pollution that are not included in the modelling. It is important to add background concentrations to modelled concentrations in order to assess the combined effect of all sources at a specific receptor location.

The MECP measures air contaminants at various locations throughout Ontario, and reports on the state of Ontario's air quality on an annual basis. A review of MECP monitoring stations in Ontario was undertaken to identify the monitoring stations that would be most representative of the study area and provide a conservative cumulative assessment. Data was obtained for the most recent consecutive five years available from the nearest representative monitoring stations to the study area. The 90<sup>th</sup> percentile values are considered conservative as they represent values that will only be exceeded 10% of the time under adverse meteorological conditions.

Environment and Climate Change Canada (ECCC) measures air contaminants at various locations throughout Canada, including Ontario, through its National Air Pollution Surveillance program (NAPS). There are currently four (4) NAPS stations located in the general vicinity of the study area. To assess the current air quality, with respect to VOCs, in the study area, the most recently available monitoring data from the closest NAPS stations were considered. Not all contaminants are monitored at each NAPS and MECP monitoring location.

Table 4-1 outlines the monitoring stations considered for the study of Existing Conditions for the Project (Arcadis, October 2017). The stations are considered representative of ambient air within the study area due to their proximity and similar urban intensity. For each contaminant, the selected background concentrations are based on a 5-year average of the measured concentrations, except for Acrolein, Acetaldehyde and Formaldehyde which were based on the available 2-year period of data. The year 2012 was removed from five-year-average calculations for PM<sub>2.5</sub> since the PM<sub>2.5</sub> monitoring method was changed in Ontario in January 2013. The period 2013 to 2017 was used for calculation of 5-year average PM<sub>2.5</sub> background levels. It should be noted that historical monitoring data for PM<sub>10</sub>, TSP and GHG's are not available at any of these seven monitoring stations. However, PM<sub>10</sub> and TSP background data were calculated using PM<sub>2.5</sub> monitoring data and approved correlation factors of 0.5 and 0.3, respectively. Monitoring data for acrolein are not available for the 1-hour averaging period. The Acrolein 1-hour background concentration was calculated from 24-hour Acrolein background concentrations using the averaging period conversion factor equation specified in Ontario's *Air Dispersion Modelling Guidelines* (MOECC 2016b).

**Table 4-1 Monitoring Station Locations** 

City	Station ID	Location	Operator	Contaminants	Years used
Toronto West	35125	125 Resources Rd.	MECP	NO <sub>2</sub> , PM <sub>2.5</sub> , CO, SO <sub>2</sub>	2012-2016
Mississauga	46108	3359 Mississauga Rd. N., U of T Campus	MECP	NO <sub>2</sub> , PM <sub>2.5</sub> , SO <sub>2</sub>	2012-2016 (2013-2017 for PM <sub>2.5</sub> )
Oakville	44017	Eighth Line/Glenashton Dr., Halton Res.	MECP	NO <sub>2</sub> , PM <sub>2.5</sub>	2012-2016 (2013-2017 for PM <sub>2.5</sub> )
Toronto	60413	Etobicoke West	ECCC	Benzene and 1,3-Butadiene	2011-2015
Brampton	60428	525 Main St. N. Brampton	ECCC	Benzene and 1,3-Butadiene	2011-2015
Toronto	60439	Roadside - Wallberg	ECCC	Formaldehyde, Acetaldehyde, Acrolein	2014-2015
Toronto Downtown	60427	Gage Institute	ECCC	benzo[a]pyrene	2010-2014

Table 4-2 summarizes the background data used, i.e. the 90th percentile concentrations of contaminants considered in this assessment. The ambient concentrations of benzene (annual average) and benzo[a]pyrene currently exceed their respective AAQCs.

Table 4-2 Summary of Background Ambient Air Data

Contaminant	Averaging Period	Adopted Background Value (μg/m3) [j]	AAQC /CAAQs (μg/m3)	Station ID	
	1 hr - 90th percentile	37.2	83 <sup>[a]</sup>		
$NO_2$	24 hr - 90th percentile	30.7	200	46108, 44017	
	Annual Mean	17.4	24 <sup>[b]</sup>		
PM <sub>2.5</sub> [k,l]	24 hr - 90 <sup>th</sup> percentile	13.9	27 <sup>[c]</sup>	46108, 44017	
F1VI2.5 <sup>c-3-3</sup>	Annual Mean	7.8	8.8 <sup>[d]</sup>	40100, 44017	
	1 hr - 90 <sup>th</sup> percentile	6.3	(100 <sup>[e]</sup> ) / 179 <sup>[f]</sup>		
$SO_2$	24 hr - 90 <sup>th</sup> percentile	5.25	275	46108	
	Annual Mean	3.15	10 <sup>[g]</sup>		
CO	1 hr - 90 <sup>th</sup> percentile	419	36,200	35125	
CO	8 hr - 90 <sup>th</sup> percentile	403	15,700		
Acetaldehyde	24 hr - 90 <sup>th</sup> percentile	1.76	500	60439	
Acrolein	1 hr	0.17 <sup>[h]</sup>	4.5	60430	
ACIOICIII	24 hr - 90 <sup>th</sup> percentile	0.07	0.4	60439	

Table 4-2 (Cont'd) Summary of Background Ambient Air Data

Contaminant	Averaging Period	Adopted Background Value (µg/m³) <sup>⊞</sup>	AAQC /CAAQs (μg/m³)	Station ID	
Formaldehyde	24 hr - 90 <sup>th</sup> percentile	3.3	65	60439	
1,3 Butadiene	24 hr - 90 <sup>th</sup> percentile	0.08	10	60413, 60428	
	Annual Mean	0.05	2	00413, 00420	
Benzene	24 hr - 90 <sup>th</sup> percentile	0.82	2.3	60413, 60428	
Denzene	Annual Mean	0.53 <sup>[i]</sup>	0.45	00413, 00428	
Denzelelovnene	24 hr - 90 <sup>th</sup> percentile	1.20E-04	5.00E-05	60427	
Benzo[a]pyrene	Annual Mean	7.80E-05	1.00E-05	60427	

#### Notes:

<sup>[</sup>a] The 2025 CAAQS is based on the 3-year average of the annual 98<sup>th</sup> percentile of the NO<sub>2</sub> daily maximum 1-hour average concentrations (CCME 2017).

<sup>&</sup>lt;sup>[b]</sup> The 2025 CAAQS is based on the arithmetic average over a single calendar year of all 1-hour average NO<sub>2</sub> concentrations (CCME 2017).

<sup>[</sup>c] The 2020 CAAQS for 24-hour PM<sub>2.5</sub> is based on the 98<sup>th</sup> percentile of 24-hour average concentrations, averaged over 3 consecutive years (CCME 2012).

<sup>[</sup>d] The 2020 CAAQS for annual PM<sub>2.5</sub> is based on the 3 consecutive years average of the average annual concentrations (CCME 2012).

<sup>[</sup>e] The 2023 Ontario AAQC is based on 1-hour average SO<sub>2</sub> concentrations (MECP 2018). Will take effect on July 1, 2023.

<sup>&</sup>lt;sup>[f]</sup> The 2025 CAAQS is based on the 3-year average of the 99<sup>th</sup> percentile of the SO<sub>2</sub> daily maximum 1-hour average concentrations (CCME 2016).

<sup>[9]</sup> The 2025 CAAQS is based on the arithmetic average over a single calendar year of all 1-hour average SO<sub>2</sub> concentrations (CCME 2016).

<sup>[</sup>h] Acrolein 1-hour background concentration calculated from 24-hour Acrolein background concentrations using the averaging period conversion factor equation specified in Ontario's Air Dispersion Modelling Guidelines (MOECC 2016b). Monitoring data for this contaminant are not available for the 1-hour averaging period.

Values in red represent background concentrations that exceed their respective AAQC.

Statistics are calculated based on data downloaded from the MECP's Air Quality Ontario website, http://www.airqualityontario.com.

TSP is not monitored in Ontario; therefore, background concentrations were calculated based on the correlation  $PM_{2.5}/TSP = 0.3$ .

PM<sub>10</sub> is not monitored in Ontario; therefore, PM<sub>10</sub> data were calculated from PM<sub>2.5</sub> data using a correlation PM<sub>2.5</sub>/PM<sub>10</sub> = 0.5.

## 4.2 Assessment Methodology

To assess the impact on air quality from the presence of the 407 Transitway and stations, an emissions inventory for the proposed development including existing sources, along with an air dispersion modelling study, was completed.

This AQIA estimated the number of vehicle-kilometers travelled (VKT) within the study area incurred by private passenger vehicles (cars and light trucks), public vehicles (i.e., transit buses) as well as heavy vehicles such as transport trucks. Based on the VKT estimates, emissions for each pollutant of concern were estimated including: CO, NO<sub>2</sub>, SO<sub>2</sub>, VOCs, (including 1,3-butadiene, acrolein, acetaldehyde, benzene, and formaldehyde), benzo[a]pyrene, TSP, PM<sub>10</sub>, and PM<sub>2.5</sub>. Emissions were estimated for existing conditions (2018) as well as future conditions in 2041, with (future build) and without (future no-build) the proposed 407 Transitway.

To assess the impact of the Project on air quality within the study area, the net change in pollutant concentrations due to the 407 Transitway in the 407 ETR transportation corridor was calculated for the reference year 2041 and compared against the applicable criteria and standards. Where there are estimated increases in emissions, their significance relative to emissions incurred on 407 ETR "now" and in the future reference year without the Project was evaluated. As outlined in the Project terms of reference developed by the MTO, an increase of more than 10% is deemed significant.

As identified in Section 3, two hundred eleven (211) sensitive and critical receptors were chosen to accurately represent the change in the study area for the existing conditions, future no-build, and future build scenarios.

## 4.3 Description of Assessment Scenarios

The potential air quality impacts associated with the Project were assessed by predicting air contaminant concentrations under three scenarios: Existing Conditions (2018), Future No-Build (without the 407 Transitway in 2041), and Future Build (with the 407 Transitway in 2041). Descriptions and assumptions used in each of the assessment scenarios are detailed in the following sections.

## 4.3.1 Existing Conditions (2018)

The 407 Transitway will be constructed in the major traffic corridor of the existing 407 ETR from west of Brant Street, at the boundary of the Cities of Brampton and Mississauga, to west of Hurontario Street in the City of Mississauga. In particular, the Transitway will be built parallel to and typically within 50 m of 407 ETR for most of the route. Using the emissions estimating methods outlined in Section 4.3.4, an emissions inventory for Existing Conditions (2018) was developed for 407 ETR between Brant Street and Hurontario Street, including its arterial roads and interchanges: Hurontario Street, Mavis Road, Mississauga Road, Derry Road, Britannia Road, Trafalgar Road, Bronte Road, Appleby Line, Eglinton Avenue West, Walkers Line, Highway 403 and Highway 401.

#### 4.3.2 Future No-Build (2041)

The expected year that the 407 Transitway will be in full operation is 2041. The Future No-Build (2041) scenario assumes that traffic volumes on 407 ETR will increase with population growth in the area. Projected traffic volumes were calculated based on annual growth rates provided by IBI Group. No changes to existing transportation infrastructure are assumed. However, improvements in vehicular combustion standards are expected. Therefore, an emissions inventory was developed using the methods outlined in Section 4.3.4 for this scenario with these considerations.

#### 4.3.3 Future Build (2041)

The Future Build (2041) scenario is the same as the above future scenario except for the addition of the 407 Transitway that will be fully grade-separated and approximately parallel to 407 ETR between Brant Street and Hurontario Street. The preferred alignment consists of a two-lane roadway (one lane in each direction) occupied solely by buses. In this scenario, buses are restricted to the 407 Transitway. It was assumed that the future bus fleet on the 407 Transitway would be diesel fueled as a worst-case scenario. An emissions inventory was developed using the methods outlined in Section 4.3.4 for the Future Build scenario with the 407 Transitway.

This scenario also considered eight (8) potential 407 Transitway bus station locations where buses will briefly idle to allow passengers to board/depart buses. The proposed undertaking currently includes a bus storage yard that is planned as part of the corridor segment near Bronte Road. The bus storage yard is included in the model and is treated the same way as the modelled stations. Specifically, buses entering/exiting the yard were modelled assuming a peak AM/PM count of 8 buses per hour. Idling emissions of buses in the bus storage yard were not included in modelling as these are expected to be insignificant since idling time would be limited. Parts of the alignment with planned tunnels were treated as regular roads. During the Detail Design phase, the final design of the tunnels, including ventilation shafts will be defined, and tunnel emissions will be re-modelled to confirm emissions.

Idling 407 Transitway bus emissions were not considered in this assessment. All stations will operate as regular bus street stops with passing lanes for express service; consequently, bus idling is not anticipated. Buses will only drop-off and pick-up passengers. In addition, during peak hours there will be approximately one bus per two minutes travelling through each of the stations; therefore, buses will stop for very short periods to allow passengers to board and exit. Therefore, the emissions from bus idling are expected to be insignificant.

Neither the 407 Transitway nor 407 ETR have signaled road intersections, therefore, idling emissions from these alignments are not expected and were not considered in this assessment. Passenger vehicle emissions from within station parking lots and passenger pick-up and drop-Off (PPUDO) areas were assessed.

#### 4.3.4 Vehicle Emissions Estimation

The rate of contaminant emissions from a section of road is proportional to the number and types of vehicles travelling along that road as well as vehicle speed. Daily and hourly traffic flows for the 2018 horizon year were provided for 407 ETR and the proposed 407 Transitway. IBI Group provided annual average daily traffic (AADT) volumes for 407 ETR and the proposed 407 Transitway and stations for the following three scenarios:

- Existing Conditions (2018);
- Future No-Build (2041); and,
- Future Build (2041).

Note that according to Parsons, the number of buses (currently operated by GO Transit) will increase whether the 407 Transitway is implemented or not. However, the forecasted volume of buses if the 407 Transitway is not implemented is uncertain. As a result, the analysis followed a conservative approach which assumed that for the Future No-Build scenario, the traffic increment on 407 ETR does not include buses. In other words, transit buses were not added to 407 ETR in the absence of the 407 Transitway.

The average daily traffic volumes and average daily vehicle-kilometers travelled (VKT) for 407 ETR are considered proprietary information and therefore, have not been included in this report. However, average daily traffic volumes and daily VKT for the 407 Transitway and its stations are presented in Table 4-3 for the Future Build scenario.

Table 4-3 Annual Average Daily Traffic Volumes (AADT) and Daily Vehicle Kilometres Travelled (VKT) for the 407 Transitway and Stations (Future Build Scenario)

Roadway	Vehicle Type	AADT	Daily VKT
407 Transitway*	Transit Bus	464	20,003
Dundas Street Station	Passenger Vehicle	4,649	1,940
Appleby Line Station	Passenger Vehicle	1,801	476
Bronte Road Station	Passenger Vehicle	783	345
Trafalgar Road Station	Passenger Vehicle	3,788	1,311
Britannia Road Station	Passenger Vehicle	1,180	280
Derry Road Station	Passenger Vehicle	2,904	1,156
Mississauga Road Station	Passenger Vehicle	714	158
Lisgar Station**	Passenger Vehicle	1,911	584
Bus Storage Yard***	Transit Bus	248	322

#### Notes:

Station traffic volumes includes both passenger vehicles that park, in/out traffic, and PPUDO vehicles.

<sup>\*</sup> AADT and Daily VKT based on weekday two-way traffic volumes.

<sup>\*\*</sup> Traffic data not available. AADT estimated based on Derry Road Station traffic and the number of planned parking spaces in Lisgar Station and Derry Road Station.

<sup>\*\*\*</sup>Traffic data not available. AADT estimated based on a peak traffic count of 8 transit buses per hour and applying the hourly traffic profile for the 407 Transitway. It should be noted that above data for the Bus Storage Yard are based on the design provided on August 19, 2019 and does not reflect the most recent design.

## 4.3.4.1 Tailpipe Emissions

All contaminants of concern considered in this study are emitted in vehicle exhaust. Additionally, particulate matter (TSP,  $PM_{10}$  and  $PM_{2.5}$ ) is emitted from the roadway surface as a result of tire/brake wear, and re- suspension of surface dust by: (1) the action of the tires on the surface; and (2) the wake created by the passing of the vehicle. Both tailpipe and mechanically generated fractions of  $PM_{10}$  and  $PM_{2.5}$  were included in this study. Tailpipe emissions from vehicles are a function of many variables. Some of the more important parameters are listed below:

- age of the vehicle (newer vehicles emit less);
- number of kilometers which the vehicle has driven;
- · emission control equipment;
- type of fuel (gasoline, diesel);
- Reid Vapour Pressure (RVP) of gasoline used (adjusted seasonally);
- ambient air temperature;
- vehicle speed;
- rate of acceleration;
- time spent idling;
- type of vehicle (car, light truck, heavy truck, bus, etc.); and,
- cold or hot start mode.

Vehicular emissions are generally estimated by using emission factors in units of mass of contaminant emitted per vehicle, per distance travelled. To obtain a mass emission rate for a particular road section, the length of the road section is multiplied by the number of vehicles using that section to obtain the total VKT. The VKT are then multiplied by the appropriate emission factors.

The vehicular exhaust emission rates were estimated for Existing Conditions, and for the Future No-Build and Future Build scenarios. Emission factors were obtained by running the U.S. EPA MOVES2014a model. The model output provided emission factors in grams per vehicle-kilometer travelled (g/VKT) for all contaminants of concern. All expected technological and regulatory changes affecting future emissions are built into the model, in order to generate the most representative emission factors possible. Details about MOVES2014a inputs are provided in Appendix A.

As previously mentioned, it was assumed that the future bus fleet on the Transitway will be diesel fueled. Even though bus propulsion is expected to evolve away from diesel technology to more clean and sustainable systems such as natural gas or electric propulsion, the timing for this

change is uncertain. Therefore, by assuming that buses operating on the Transitway will still be based on diesel technology, emissions from Transitway buses are conservative.

Table 4-4 and Table 4-5 summarize the final vehicular exhaust emission factors used in the existing conditions and future reference year for idling conditions (based on the 4 km/h speed bin in MOVES), 30 km/h, which is the posted speed limit in the parking lots and PPUDO areas, 60 km/h or 80 km/h which are the typical posted speed limits along the interchange roadways, and 100 km/h, which is the posted speed limit on 407 ETR and the 407 Transitway. Emission factors are in g/VKT.

 Table 4-4
 Tailpipe Emission Factors for Cars and Medium Trucks for 2018 and 2041

Year	Speed												
	(km/h)	<i>PM</i> <sub>10</sub> *	PM <sub>2.5</sub> *	СО	NO <sub>2</sub> **	SO <sub>2</sub>	1,3-Butadiene	Acetaldehyde	Acrolein	Benzene	Formaldehyde	Benzo[a]pyrene**	CO <sub>2</sub> e***
	4	3.48E-01	6.86E-02	1.36E+01	6.18E-01	1.46E-02	1.92E-03	4.10E-03	2.17E-04	1.17E-02	4.64E-03	1.55E-05	2.21E+03
	30	8.84E-02	1.77E-02	3.90E+00	2.34E-01	3.12E-03	3.65E-04	8.18E-04	4.62E-05	2.52E-03	9.70E-04	3.99E-06	4.71E+02
2018	60	4.96E-02	1.97E-02	4.54E+00	2.83E-01	2.49E-03	2.65E-04	6.38E-04	3.89E-05	2.16E-03	8.03E-04	8.24E-06	3.75E+02
	80	4.03E-02	2.00E-02	4.79E+00	2.98E-01	2.38E-03	2.45E-04	6.06E-04	3.79E-05	2.11E-03	7.79E-04	9.18E-06	3.59E+02
	100	2.63E-02	1.55E-02	4.54E+00	3.18E-01	2.31E-03	2.30E-04	5.78E-04	3.67E-05	2.05E-03	7.51E-04	7.51E-06	3.49E+02
	4	3.24E-01	4.78E-02	2.60E+00	9.01E-03	8.84E-03	0.00E+00	6.07E-05	7.03E-06	4.82E-04	1.33E-04	4.24E-06	1.32E+03
	30	8.21E-02	1.22E-02	8.25E-01	8.36E-03	1.88E-03	0.00E+00	2.29E-05	2.65E-06	1.59E-04	5.02E-05	9.94E-07	2.81E+02
2041	60	3.54E-02	7.16E-03	1.31E+00	2.59E-02	1.50E-03	0.00E+00	3.56E-05	4.12E-06	2.47E-04	7.80E-05	1.56E-06	2.24E+02
	80	2.44E-02	5.94E-03	1.47E+00	3.18E-02	1.44E-03	0.00E+00	3.98E-05	4.61E-06	2.76E-04	8.71E-05	1.67E-06	2.15E+02
	100	1.35E-02	4.19E-03	1.43E+00	3.98E-02	1.40E-03	0.00E+00	4.21E-05	4.87E-06	2.92E-04	9.22E-05	1.46E-06	2.09E+02
Year	Speed							Medium Tracks (g/Vł	KT)				
i eai	(km/h)	<b>PM</b> <sub>10</sub> *	PM <sub>2.5</sub> *	СО	NO <sub>2</sub> **	SO <sub>2</sub>	1,3-Butadiene	Acetaldehyde	Acrolein	Benzene	Formaldehyde	Benzo[a]pyrene**	CO <sub>2</sub> e***
	4	1.37E+00	6.81E-01	9.30E+00	1.86E+01	5.58E-02	5.98E-03	9.37E-02	1.64E-02	1.98E-02	2.29E-01	9.02E-05	6.62E+03
	30	3.53E-01	1.31E-01	1.97E+00	3.06E+00	1.09E-02	9.93E-04	1.54E-02	2.71E-03	3.26E-03	3.75E-02	1.26E-05	1.29E+03
2018	60	1.68E-01	8.15E-02	1.53E+00	2.11E+00	8.00E-03	5.91E-04	9.17E-03	1.61E-03	1.94E-03	2.23E-02	6.64E-06	9.47E+02
	80	1.27E-01	7.11E-02	1.46E+00	1.89E+00	7.26E-03	5.08E-04	7.88E-03	1.38E-03	1.67E-03	1.92E-02	5.31E-06	8.59E+02
	100	9.55E-02	5.93E-02	1.32E+00	1.70E+00	6.57E-03	4.17E-04	6.46E-03	1.14E-03	1.37E-03	1.57E-02	3.77E-06	7.77E+02
	4	7.98E-01	1.62E-01	2.68E+00	4.83E+00	4.99E-02	3.21E-04	2.78E-02	4.02E-03	5.18E-03	8.73E-02	1.63E-07	6.00E+03
	30	2.55E-01	4.20E-02	5.45E-01	8.20E-01	9.67E-03	5.07E-05	4.39E-03	6.34E-04	8.18E-04	1.38E-02	2.56E-08	1.16E+03
2041	60	1.00E-01	2.00E-02	4.62E-01	5.57E-01	7.06E-03	2.95E-05	2.56E-03	3.69E-04	4.76E-04	8.03E-03	1.87E-08	8.48E+02
	80	6.56E-02	1.52E-02	4.57E-01	4.96E-01	6.39E-03	2.50E-05	2.17E-03	3.13E-04	4.04E-04	6.81E-03	1.75E-08	7.67E+02
	100	4.32E-02	1.14E-02	4.22E-01	4.38E-01	5.76E-03	2.02E-05	1.75E-03	2.52E-04	3.25E-04	5.49E-03	1.52E-08	6.91E+02

<sup>&</sup>lt;u>Notes:</u>
\*Exhaust + tire wear + brake wear emission factors. Emission factors do not include road dust. See Section 4.3.4.2.

<sup>\*\*</sup>B(a)P gas + B(a)P particle emission factors

\*\*\*Assumes the following global warming potentials: CH4 = 25 and N2O = 298

Table 4-5 Tailpipe Emission Factors for Heavy Trucks and Buses for 2018 and 2041

Year	Speed							Heavy Trucks (g/VKT)					
rear	(km/h)	<b>PM</b> <sub>10</sub> *	PM <sub>2.5</sub> *	СО	NO <sub>2</sub> **	SO <sub>2</sub>	1,3-Butadiene	Acetaldehyde	Acrolein	Benzene	Formaldehyde	Benzo[a]pyrene**	CO <sub>2</sub> e***
	4	2.58E+00	1.17E+00	9.01E+00	3.26E+01	7.38E-02	6.78E-03	1.08E-01	1.88E-02	2.27E-02	2.64E-01	1.54E-04	8.71E+03
	30	7.50E-01	3.46E-01	1.98E+00	7.62E+00	2.00E-02	1.06E-03	1.67E-02	2.92E-03	3.53E-03	4.10E-02	1.83E-05	2.35E+03
2018	60	3.94E-01	2.19E-01	1.36E+00	5.74E+00	1.53E-02	6.43E-04	1.00E-02	1.76E-03	2.12E-03	2.44E-02	8.91E-06	1.80E+03
	80	2.87E-01	1.83E-01	1.22E+00	5.45E+00	1.45E-02	5.65E-04	8.68E-03	1.53E-03	1.84E-03	2.10E-02	6.70E-06	1.71E+03
	100	2.00E-01	1.48E-01	1.07E+00	5.60E+00	1.49E-02	4.79E-04	7.23E-03	1.28E-03	1.54E-03	1.74E-02	4.02E-06	1.75E+03
	4	1.61E+00	2.87E-01	2.48E+00	8.47E+00	6.89E-02	4.03E-04	3.49E-02	5.03E-03	6.49E-03	1.09E-01	2.25E-07	8.29E+03
	30	4.62E-01	8.22E-02	5.02E-01	1.94E+00	1.85E-02	6.18E-05	5.36E-03	7.73E-04	9.97E-04	1.68E-02	6.20E-08	2.22E+03
2041	60	2.00E-01	4.12E-02	3.42E-01	1.36E+00	1.40E-02	3.49E-05	3.02E-03	4.36E-04	5.63E-04	9.49E-03	4.09E-08	1.68E+03
	80	1.19E-01	2.87E-02	3.06E-01	1.24E+00	1.31E-02	2.88E-05	2.50E-03	3.60E-04	4.65E-04	7.83E-03	3.47E-08	1.58E+03
	100	5.98E-02	1.89E-02	2.58E-01	1.25E+00	1.35E-02	2.24E-05	1.94E-03	2.79E-04	3.61E-04	6.08E-03	2.89E-08	1.62E+03
Year	Speed							Transit Bus (g/VKT	(T)				
i Gai	(km/h)	<i>PM</i> <sub>10</sub> *	PM <sub>2.5</sub> *	СО	NO <sub>2</sub> **	SO <sub>2</sub>	1,3-Butadiene	Acetaldehyde	Acrolein	Benzene	Formaldehyde	Benzo[a]pyrene**	CO <sub>2</sub> e***
	4	2.14E+00	9.67E-01	1.91E+01	5.76E+01	7.31E-02	1.38E-02	1.90E-01	3.42E-02	4.09E-02	4.41E-01	1.25E-04	8.55E+03
	30	6.63E-01	2.79E-01	4.23E+00	1.12E+01	1.83E-02	2.12E-03	2.93E-02	5.29E-03	6.32E-03	6.83E-02	1.53E-05	2.13E+03
2018	60	3.11E-01	1.74E-01	2.85E+00	8.23E+00	1.37E-02	1.34E-03	1.83E-02	3.31E-03	3.95E-03	4.23E-02	8.37E-06	1.60E+03
	80	2.23E-01	1.46E-01	2.60E+00	7.84E+00	1.31E-02	1.23E-03	1.66E-02	3.01E-03	3.59E-03	3.82E-02	6.36E-06	1.53E+03
	100	1.68E-01	1.26E-01	2.34E+00	8.05E+00	1.36E-02	1.08E-03	1.44E-02	2.62E-03	3.12E-03	3.30E-02	3.90E-06	1.58E+03
	4	1.37E+00	2.52E-01	2.52E+00	9.31E+00	6.78E-02	4.08E-04	3.53E-02	5.10E-03	6.58E-03	1.11E-01	2.13E-07	8.15E+03
	30	4.42E-01	7.62E-02	5.03E-01	1.87E+00	1.69E-02	6.45E-05	5.59E-03	8.06E-04	1.04E-03	1.75E-02	5.41E-08	2.04E+03
2041	60	1.59E-01	3.39E-02	3.45E-01	1.34E+00	1.27E-02	3.59E-05	3.11E-03	4.49E-04	5.79E-04	9.76E-03	3.60E-08	1.52E+03
	80	8.99E-02	2.32E-02	3.13E-01	1.26E+00	1.22E-02	2.96E-05	2.57E-03	3.70E-04	4.78E-04	8.05E-03	3.08E-08	1.46E+03
	100	4.98E-02	1.66E-02	2.64E-01	1.25E+00	1.26E-02	2.29E-05	1.98E-03	2.86E-04	3.69E-04	6.22E-03	2.68E-08	1.51E+03

Notes:

\*Exhaust + tire wear + brake wear emission factors. Emission factors do not include road dust. See Section 4.3.4.2.

\*\*B(a)P gas + B(a)P particle emission factors

\*\*CH4 = 25 and N2O = 298

<sup>\*\*\*</sup>Assumes the following global warming potentials: CH4 = 25 and N2O = 298

#### 4.3.4.2 Mechanically-Generated Dust Emissions

U.S. EPA AP-42 Section 13.2.1 provides an emission factor to estimate the amount of dust suspended by vehicles on the road (U.S. EPA 2011), according to the following equation:

$$E = k(sL)^{0.91} \times (W)^{1.02} \times (1 - P/4N)$$

Where:

E = particulate emission factor (g/VKT)

k = particle size multiplier = 3.23 (g/VKT) for TSP, 0.62 (g/VKT) for PM<sub>10</sub> and 0.15 (g/VKT) for PM<sub>2.5</sub>

sL = silt loading (g/m<sup>2</sup>)

W = weight of fleet (tons/vehicle)

P = number of "wet" days with at least 0.254 mm of precipitation during the averaging period

= 142 (obtained from Toronto Pearson Airport data)

N = number of days in the averaging period = 365 days

Silt loading was determined using the AADT. The AADT along the proposed 407 Transitway will be just under 500 buses per day when both directions are considered (Table 4-3). Therefore, the silt loading for the proposed 407 Transitway is 0.6 g/m². For the 407 ETR, a silt loading consistent with previous 407 Transitway studies (e.g., Arcadis, 2017) was applied and produced conservative predictions of particulate matter concentrations.

The road dust emission factor equation also includes vehicle weight as a variable. For this assessment, the following vehicle weights were used:

- 2,500 kg gross vehicle weight for passenger vehicles (provided by Parsons);
- 24,000 kg gross vehicle weight for Transitway buses (provided by Parsons);
- 9,000 kg gross vehicle weight for medium trucks;
- 30,000 kg gross vehicle weight for heavy trucks.

Note that mechanically generated dust emissions from vehicular travel on paved roads are not expected to change over time.

#### 4.4 Assessment Criteria

As mentioned in Section 4.3, where there are estimated increases in emissions in the Future Build scenario compared to the Future No-Build scenario, their significance relative to the emissions incurred on 407 ETR "now" and in the future without the Project was evaluated. As outlined in the Project terms of reference developed by the MTO, an increase of more than 10% is deemed significant.

## 4.5 Air Dispersion Modelling

Local air quality impacts are characterized by concentrations of contaminants emitted from the sources within the study area. These concentrations will vary spatially and temporarily in response to changing atmospheric conditions (wind speed, wind direction, temperature, atmospheric stability and mixing height) and the amount of pollutant emitted. To calculate the concentration at a given location, an atmospheric dispersion model is used. The model takes the emissions from a source and disperses them into the surrounding atmosphere, typically using historical hourly meteorological data from a local weather station.

To assess the impact on air quality within the study area based on the presence of the 407 Transitway, air dispersion modelling was completed using the MTO recommended air dispersion model (MTO 2012), CAL3QHCR which is described in further detail in Section 4.5.1.

Local air quality impacts related to the Project emissions were assessed for twelve pollutants and resulting concentrations were obtained for three different scenarios (see Sections 4.3.1- 4.3.3 for a list of scenarios).

#### 4.5.1 CAL3QHCR

CAL3QHCR is a model developed specifically to predict the changes in downwind air quality resulting from vehicle emissions from free-flowing traffic conditions and near roadway intersections (U.S. EPA, 1995). The model combines the CALINE-3 (Benson, 1979) line source dispersion model and a traffic algorithm for estimating vehicular queue lengths at signalized intersections. The CALINE-3 line source dispersion model predicts more realistic concentrations immediately around roads because of the initial mixing in the wake zone of the vehicle. This initial mixing, combined with the traffic algorithm for queuing (added emissions from idling vehicles), provides improved model predictions of the impact of vehicle tailpipe emissions adjacent to roadways. CAL3QHCR includes additional calculations for approximating emissions near roadway intersections.

CAL3QHCR requires the input of roadway geometries, receptor locations, vehicular emission factors, signal timing, intersection configuration, and meteorological data.

CAL3QHCR model guidance documents recommend using a source release height of 0 m. All sources were assigned a release height of 0 m with the exception of bridges and complex overpasses which were all assigned a source release height of 10 m.

The CAL3QHCR model was originally designed to simulate dispersion of CO and PM<sub>2.5</sub> from roadways. However, it is applicable to all gaseous pollutants, provided that minor alterations to the model source code are made. To model NO<sub>2</sub>, SO<sub>2</sub> and VOC emissions, the model was modified to reflect the difference in the contaminant's molecular weight.

In CAL3QHCR, each road link that is modelled has an associated vehicle count and pollutant emission factor for each hour of the day. Since emission factors differ by vehicle class, the vehicle mix was used to calculate a weighted average emission factor for each pollutant for a given road link based on the fraction of cars and trucks that travel on it.

Typical hourly traffic counts for weekdays and weekends were provided by Parsons and were used to develop the emission factors for each pollutant and road link for each hour of the day. The assessment considers both weekday and weekend hourly traffic patterns.

#### 4.5.2 Meteorological Data

The meteorological data requirements for the comprehensive analysis include hourly meteorological data on mixing height, temperature, cloud cover, cloud opacity, wind speed and wind direction, surface wind direction and velocity, stability class, and mixing height. The preferred data set is the most recent five years of meteorological observations acquired from the nearest meteorological station(s) (usually, the nearest airport).

The site specific meteorological dataset processed by the with upper air data from the U.S. National Weather Service's Buffalo station and surface data from the Environment and Climate Change Canada's Toronto international airport station, with missing data filled with those from the Buttonville airport station for the period from 2013 to 2017 was used in conjunction with the CAL3QHCR model. Surface data were processed as per the MECP-endorsed MTO "Environmental Guide for Assessing and Mitigating the Air Quality Impacts and Greenhouse Gas Emissions of Provincial Transportation Projects" and hourly mixing heights were estimated using the U.S. EPA's regulatory meteorological pre-processor PCRAMMET (version 99169).

The frequency distribution of hourly surface wind speed and direction at the Toronto International Airport in the 5-year period from 2013 to 2017, in the form of a wind rose (i.e., a graphical representation of the frequency of winds from each direction) is presented on Figure 4.1. The average wind speed was 4.5 m/s. The prevailing winds were westerly (9.8% of the time) and from the west-southwest (9.6% of the time). Winds from north-northwest and north-west occur frequently as well (16.8% of the time).

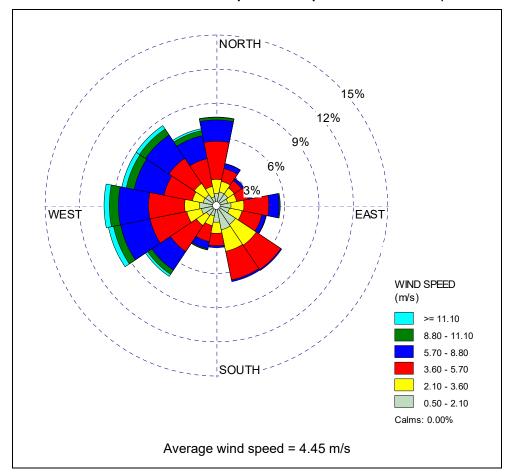


Figure 4-1 Wind Rose Plot at Toronto Int'l Airport for the period 2013 to 2017 (wind blowing from)

Typically, five years of hourly meteorological data are used in dispersion modelling calculations, as recommended by the U.S. EPA in order to include all of the possible combinations of meteorological conditions expected to occur in the area to be modelled. The CAL3QHCR model can process only one year of data per model run, therefore the results for each year of meteorological data were compared to determine the maximum concentration for each contaminant. The models were run for five years of meteorological data to determine maximum contaminant concentrations at 211 sensitive receptor locations (see Section 3). The worst-case meteorological year (i.e., the year that resulted in the highest maximum ground-level concentrations) was determined to be 2015. Modelling results using 2015 meteorological data are presented in this report. Contaminants with criteria based on three-year averaging periods were assessed using the meteorological years 2015, 2016 and 2017.

#### 4.5.3 Receptor Grid

A receptor grid is required to develop isopleths (i.e., lines of equal concentrations) to illustrate the results of the air dispersion modelling. In addition to the 211 sensitive receptors described in Section 3, receptors were placed every 100 m from the roadway extending to 500 m with spacing between receptors of 200 m which run parallel to the road links defined within the study area. The total number of receptors (i.e., sensitive receptors plus receptor grid) for the Existing Conditions and Future No-Build scenarios is 3,453 whereas for the Future Build scenario is 3,093. The existing and no build receptor grid were developed using only the 407 ETR road links. The receptor grid for the future build was developed using both the 407 ETR and Transitway road links. This resulted in a decrease in the number of receptors for the future build as some of the no build receptors were located within the Transitway development area.

#### 4.5.4 NO<sub>x</sub> to NO<sub>2</sub> Conversion

As discussed previously,  $NO_x$  emissions are composed of nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>), with adverse health effects resulting from  $NO_2$  at much lower concentrations than NO. Once NO is emitted to the atmosphere it reacts with other contaminants (primarily ground-level ozone  $-O_3$ ) to produce  $NO_2$ . Depending on the amount of ozone present, only a portion of  $NO_x$  will be converted to  $NO_2$ . However, for the purpose of this assessment, it has been conservatively assumed that all  $NO_x$  will be converted to  $NO_2$ .

## 5 AIR QUALITY IMPACT ASSESSMENT

## 5.1 CAL3QHCR Modelling Results

The output from CAL3QHCR is the predicted 1-hour average concentration at each of the modelled receptor points for the gaseous pollutants and 24-hour average concentrations for particulate matter. Hourly data is post-processed to determine maximum predicted 1-hour, 8-hour and 24-hour average concentrations, as well as annual average concentrations.

Tables B-1 through B-23 in Appendix B present the model-predicted concentrations of criteria air contaminants (i.e., including background) for each applicable averaging period for the two hundred eleven (211) sensitive receptor locations for each of three scenarios. The ambient background concentrations presented in Section 4.1 were added to the model-predicted concentrations to estimate worst-case ambient concentrations that could be realized as a result of the proposed Project.

As presented in Tables B-1 to B-13, all model-predicted concentrations of TSP, PM<sub>10</sub>, SO<sub>2</sub>, PM<sub>2.5</sub> and CO for all averaging periods for all three scenarios are well below applicable ambient air quality criteria even with the addition of background concentrations at sensitive receptor. The only exceptions are for the 98<sup>th</sup> percentile of 1-hour NO<sub>2</sub> and annual NO<sub>2</sub> for the Existing scenario. As already mentioned in Section 2.2, the AAQC for a 1-hour NO<sub>2</sub> averaging period is 400 µg/m<sup>3</sup> and there is no AAQC criteria for annual NO<sub>2</sub>. For comparison purposes, the 2025 CAAQS for NO<sub>2</sub> 1-hour and annual averaging period have been applied to existing conditions (2018). As presented in Table B-6 and B8, the 98<sup>th</sup> percentile of 1-hour NO<sub>2</sub> concentrations and annual NO<sub>2</sub> concentrations, in the Existing scenario, exceed the 2025 CAAQS at one sensitive receptor (NSA10\_R16, Figure 3.11). The maximum cumulative 1-hour NO<sub>2</sub> concentrations predicted for existing conditions are in compliance with air quality limits currently enforced in the province of Ontario. The predicted NO<sub>2</sub> concentrations for all averaging periods, in both future scenarios are in a compliance with CAAQs.

Furthermore, the maximum cumulative concentrations of SO<sub>2</sub> are well below the more stringent 1-hour and annual CAAQS and current and future AAQC.

VOC compounds of acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde and benzo[a]pyrene were modelled and predicted results for the averaging periods with applicable air quality criteria are presented in Tables B-14 through B-23 in Appendix B. Model-predicted concentrations of VOCs for all averaging periods for all three scenarios are well below applicable ambient air quality criteria when combined with their respective 90<sup>th</sup> percentile ambient background concentrations. The only exceptions are the 24-hour and annual average benzo[a]pyrene and annual average benzene concentrations, where the background concentrations are already above their respective AAQC without any contribution from the Project.

Table B-24 through Table B-26 in Appendix B presents the three highest concentrations (model-predicted plus background), the days (i.e., Julian day in 2015) and hour (when applicable) on which the highest concentrations occurred and locations (i.e., UTM coordinates in km) where these highest concentrations occurred, for each modelled contaminant for the Existing Conditions, Future No-Build and Future Build scenarios. Model-predicted concentrations for contaminants with 1-hour or 24-hour CAAQS are presented as percentiles. For example, the SO<sub>2</sub> 1-hour concentrations are presented as the 99<sup>th</sup> percentile averaged over three consecutive years (i.e., 2015, 2016 and 2017) whereas the NO<sub>2</sub> 1-hour and PM<sub>2.5</sub> 24-hour concentrations are presented as 98<sup>th</sup> percentile averaged over the same three years. Model-predicted annual SO<sub>2</sub> and NO<sub>2</sub> concentrations are presented as annual average concentrations in 2015 while annual PM<sub>2.5</sub> concentrations are averaged over a three-year period (i.e., 2015, 2016 and 2017).

## 5.2 Air Quality

#### 5.2.1 Comparison of Existing Conditions (2018) to Future Scenarios (2041)

Model-predicted concentrations for twelve contaminants, under three scenarios at sensitive receptors are presented in Tables B-1 to B-23 in Appendix B. The percent change in contaminant concentrations for the Future No-Build and Future Build scenarios relative to Existing Conditions is also presented in the tables. Tables B-1 through Table B-5 present predicted concentrations of TSP, PM<sub>2.5</sub> and PM<sub>10</sub> which are shown to increase under the Future scenarios relative to Existing Conditions. Unlike gaseous pollutants, particulate matter emissions are made up of re-suspended road dust as well as tailpipe emissions. Since the road dust component dominates the total particulate matter emission factor, the expected net effect over time is an increase in emissions due to an increase in future traffic volumes.

In contrast, CO, NO<sub>2</sub>, 1,3-butadiene and benzo[a]pyrene concentrations decrease significantly for the Future Build and Future No-Build scenarios relative to Existing Conditions (Tables B-6 through B-8, B-12 and B-13, B-19 and B-20, and B-22 and B-23). This is a result of the significant decrease in emission factors for every type of vehicle (passenger cars, light-duty trucks, medium duty trucks and heavy trucks). The decrease in emission factors in 2041 is great enough to offset the increase in traffic, which results in an overall decrease in contaminant concentrations at all sensitive receptor locations. The decrease in emission factors is due to the assumptions regarding the future improvements to vehicle combustion and exhaust control technology.

Table B-15 and Table B-16 show that there is a decrease in acrolein concentrations for the future scenarios relative to Existing Conditions which is also a direct result in an overall decrease in vehicle emission factors due to assumptions regarding the improvements in technology. The average percent decrease is insignificant at 6% for the 1-hour averaging period and 3% for the 24-hour averaging period.

Tables B-9 through B-11, B-14, B-17, B-18 and B-21 present the maximum (or percentile) predicted concentrations for SO<sub>2</sub>, acetaldehyde, benzene and formaldehyde showing insignificant

changes for the Future Build and Future No-Build scenarios relative to Existing Conditions. As previously mentioned, insignificant changes can be expected despite the predicted increase in traffic volumes as a result of the improvements to engine technologies, as well as improved fuel standards.

#### 5.2.2 Comparison of Future No-Build and Future Build Scenarios

When assessing the merits of the proposed 407 Transitway project compared to Future No-Build conditions, it is the incremental change in total model-predicted concentrations between the two future cases that is the true measure of the future impact of the Project. The same background concentrations are added to the modelled concentrations for the Future Build and Future No-Build scenarios, therefore, when assessing the incremental change in the combined concentrations, the background concentration cancels out.

It should be noted that some sensitive receptors are located in very close proximity to the predicted transitway alignment (i.e., at the edge or within 20 m of the mixing zone). Predicted concentrations at these locations (NSA6-R02, NSA6-R03, NSA8-R03, NSA8-R10 and NSA8-R11) are largely affected by close proximity of related sources (i.e., road links) and are considered as artificial modelling effects. These results are therefore not included in the analysis below and in Table 5-1.

The percent change in predicted concentrations for Future Build relative to Future No-Build is presented in Tables B-1 through B-23 in Appendix B. For most contaminants and most averaging periods, model-predicted concentrations are shown to stay fairly similar between the future scenarios at sensitive receptor locations. The percentage change in the predicted concentration for the Future Build scenario relative to the Future No-Build scenario for all modelled contaminants is 2% at sensitive receptors, except for 24-hour maximum and annual TSP and 24-hour maximum 2% concentrations.

The increase in predicted 24-hour maximum  $PM_{10}$  and annual TSP concentrations from Future No Build to Future Build is insignificant (i.e. less <10%). Predicted 24-hour maximum TSP concentrations show a significant increase from Future No Build to Future Build, as shown in Table 5-1. This increase is a result of the low volume of bus traffic on the 407 Transitway which results in higher emissions (resuspension) of road dust based on U.S. EPA emission factors. Table 5-1 below identifies that none of the sensitive receptors are predicted to be significantly affected between the Future Build and Future No-Build scenarios for contaminants other than 24-hour maximum TSP concentrations.

Table 5-1 Changes from Future Build and Future No-Build Scenarios

Contaminant	Change from Future Build and No-Build	Number of Receptors Significantly Affected
Benzo[a]pyrene	insignificant (<10%)	0
Formaldehyde	insignificant (<10%)	0
Acetaldehyde	insignificant (<10%)	0
Acrolein	insignificant (<10%)	0
1,3-butadiene	insignificant (<10%)	0
Benzene	insignificant (<10%)	0
Carbon Monoxide	insignificant (<10%)	0
Nitrogen Dioxide	insignificant (<10%)	0
Sulphur Dioxide	insignificant (<10%)	0
TSP (annual)	insignificant (<10%)	0
TSP (24-hour)	significant (19%) *	42**
PM <sub>10</sub>	insignificant (<10%)	0
PM <sub>2.5</sub>	insignificant (<10%)	0

#### Notes:

The results from the air dispersion modelling have been presented in graphical format as contour plots for each of the twelve modelled contaminants (averaging period depends on the contaminant of concern) for all three scenarios in Appendix C. As outlined in Section 4.5.2, the worst-case meteorological year (2015) was used to develop graphical isopleths for each contaminant except for 1-hour SO<sub>2</sub> and NO<sub>2</sub> and 24-hour and annual PM<sub>2.5</sub> where the three-year average (2015, 2016 and 2017) was used. For example, Figure 5-1 presents the predicted 24-hour maximum NO<sub>2</sub> concentrations for the Existing Conditions (2018), Future No-Build (2041) and Future Build (2041) scenarios, respectively. These concentrations are the maximum 24-hour predicted concentrations that occur during a one-year period added to a conservative background concentration. The figure shows insignificant changes in NO<sub>2</sub> concentrations between the Future No-Build and Future Build scenarios. Figures for all other gaseous compounds are provided in Appendix C and demonstrate results similar to those of NO<sub>2</sub>. Figures of predicted concentrations for particulate matter in Appendix C demonstrate the trends discussed above.

<sup>\*</sup>Maximum percentage change from Future Build to No-Build.

<sup>\*\*</sup>Does not include the closest five receptors as discussed above.

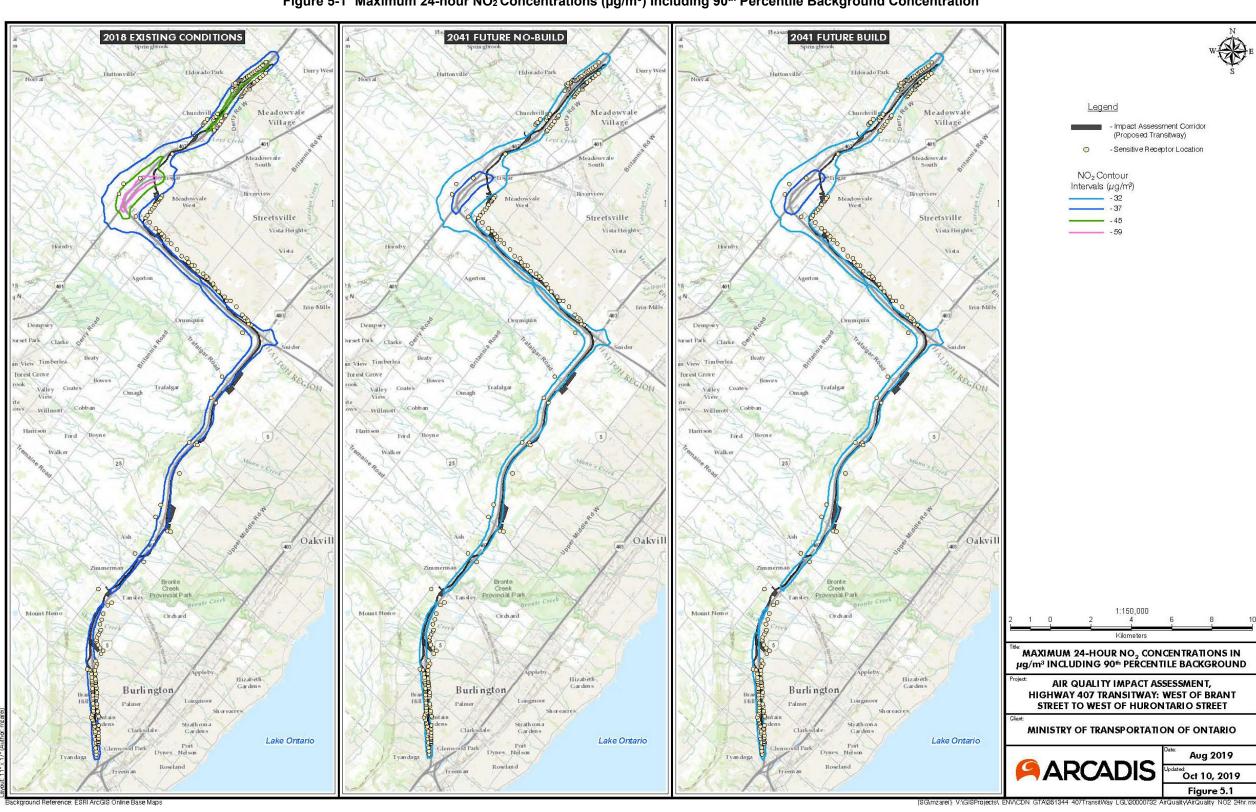


Figure 5-1 Maximum 24-hour NO<sub>2</sub> Concentrations (μg/m³) Including 90<sup>th</sup> Percentile Background Concentration

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#### 5.3 Greenhouse Gases

Greenhouse gas emissions were calculated using the CO<sub>2</sub>e emission factors, which were generated in MOVES (see Table 4-4 and 4-5), and annual VKT for each vehicle type and road segment. The total annual quantities of carbon dioxide equivalent (CO<sub>2</sub>e) released (in tonnes) for each assessment scenario and percent change between scenarios are summarized in Table 5-2.

Total CO2e Emissions **Assessment** % Change from % Change from Future No-Build Scenario (tonnes/year) **Existing Conditions** 481,048 **Existing Conditions** 29 Future No-Build 622,499 30 1.7 **Future Build** 633,245

Table 5-2 Annual CO<sub>2</sub>e Emissions from Traffic

CO<sub>2</sub>e is shown to increase by 29% in the Future No-Build scenario relative to Existing Conditions and by a further 1.7% in the Future Build scenario relative to Future No-Build scenario. The increase in GHG emissions relative to Existing Conditions is attributable to the increase in vehicles in the study area due to population growth. Although GHG emissions are shown to increase slightly (i.e., insignificantly) for the specific study area as a result of the 407 Transitway, this is a worst-case estimate of the Project's impact on GHG emissions as it does not consider a reduction in personal vehicles due to the addition of the 407 Transitway and assumes a 100% diesel bus fleet. In reality, the 407 Transitway will promote an alternative option to personal vehicles and may utilize newer clean technology in its bus fleet (e.g., hybrid or electric buses).

According to Environment and Climate Change Canada's (ECCC) 2019 National Inventory Report, Ontario's total GHG emissions were 159,000 kilotonnes (kt) in 2017 (ECCC 2019) of which almost 38% was due to the transport sector. Although the Project is expected to slightly increase emissions of GHG in the specific study area, the incremental CO<sub>2</sub>e increase in the Future Build is estimated to be about 0.4% of the 2017 Ontario total and is not discernable from the Future No-Build scenario at the provincial level (see Table 5-3).

Scenario	Year	Total CO₂e (kilotonnes)	% of Ontario Total
Ontario Total	2017	159,000	-
Ontario Transport Sector	2017	60,200	37.90%
Existing Conditions	2018	481	0.3%
Future No-Build	2041	622	0.4% (1)
Future Build	2041	633	0.4% (1)

Table 5-3 Annual CO<sub>2</sub>e Emissions from Traffic

<sup>(1)</sup> Assuming no change in Ontario's total emissions

## **6 CLIMATE CHANGE**

## 6.1 Impacts of Climate Change on the Project

The study area is expected to experience increasing incidents of extreme weather events as a result of climate change. These events can result in a variety of detrimental losses within the proposed Transitway, as well as in the natural environment surrounding the study area. Some of these extremes can include:

- changes to freeze thaw cycle;
- increased severity of flood events;
- increase heat waves; and,
- high winds and lightning.

The change in freeze and thaw cycles can cause concrete or asphalt to fail leading to cracks and crumbling of roadways. Cracks can be damaging to private and commercial vehicles as well as lead to potholes and in extreme situations, sink holes. The Transitway system will be built to ensure longevity and will be maintained to minimize cracking and potholes.

Ontario is predicting that the average temperature within Southwestern Ontario will rise 5 to 6 degrees in the next 80 years. Within these temperature extremes, the public will rely more on their personal vehicles to travel in comfort (MNR 2007). By implementing a comfortable and reliable Transitway, the number of personal vehicles operating within these extremes can decrease. Buses within the 407 Transitway will receive reliable maintenance and will be operated to encourage efficiency in order to reduce its carbon footprint. High temperatures can also lead to expansion of the roadway resulting in cracks and surface abnormalities. Temperatures will be monitored, and roadways will be visually checked for abnormalities to confirm safety for buses and passengers, as part of the regularly scheduled maintenance.

The Greater Toronto Area (GTA) has also witnessed several high rain events in the past few years that have led to flooding and infrastructure damage. Roadways can be flooded in situations of high rain as result of low porosity of concrete and asphalt. This low porosity can result in localized flooding within the surrounding environment. To mitigate this runoff, the Transitway will be equipped with a storm water collection system that will collect runoff and transport it to safe locations. The storm water system will be designed to handle extreme weather conditions, however the Transitway will also be monitored and if localized flooding is identified emergency procedures will be implemented and buses will either be re-routed or shut down until flooding has ceased.

Wind and lightning can result in power lines being compromised, resulting in power loss to roadways and signs. The Transitway system will be constructed so that the buses can still operate in scenarios where power is not available. The Transitway will also have reflective markers to

provide support to buses when power is lost, or fog is present. All material within the Transitway will also be secured to ensure that in high wind scenarios that items remain fixed and safe for passengers.

## 6.2 Impacts of the Project on Climate Change

Transportation is Ontario's major contributor to GHG emissions with the GTA being the busiest and most developed area within Ontario. In 2018, 126 million trips were completed on the existing 407 ETR highway and every year since it has been growing. The development of this transitway is promoting a cleaner transportation option by removing personal vehicles from the road and reducing pressure on the already congested roadways within the GTA. As discussed in Section 5.3, With the conservative approach of assuming the fleet will be diesel-fueled transit buses, the Transitway will result in an insignificant change in the overall GHG emissions compared to future conditions without the Project. This is a worst-case estimate of the Project's impact on GHG emissions as it does not consider a reduction in personal vehicle use due to the addition of the Transitway or the use of hybrid or electric power buses. In reality, the 407 Transitway will promote an alternative option to personal vehicles and utilize newer clean technology in its bus fleet.

The 407 Transitway system will run parallel to the pre-existing 407 ETR highway and has been assumed to operate only diesel-fueled buses. The Transitway will be designed as a rapid transit system with only a select number of stops. The diesel buses and passenger vehicles within the stations are the only direct GHG emission sources for this project. The passenger vehicle emissions from passenger pick-up and drop-off are insignificant relative to the emissions coming from the buses, and passenger vehicle travel within the stations, as this activity is expected to be very short term and only at certain intervals when buses are arriving and departing. The system however, will create indirect emissions by consuming power from the grid for station lighting and heating, and transitway illumination. The diesel buses will contribute additional GHG emissions to the pre-existing environment; however, it is the intent that by introducing this new transit system drivers will be encouraged to use public transit over their personal vehicles.

For the AQIA the worst-case scenario was evaluated, however, as part of this climate change assessment, carbon-focused build scenarios were also considered. Rather than operating diesel fueled buses, an electric substitute such as a Light Rail Transit (LRT) or electric power buses were considered. In the LRT scenario the number of vehicles operated within the 407 ETR would not change; however, no transit bus emissions would be present. The LRT or electric bus system would produce indirect emission from electricity consumption; however, Ontario's electricity grid is primarily made up of renewable or emission free sources including (Ministry of Energy 2017):

- Nuclear 60%
- Hydroelectric 24%
- Wind 6%

#### Solar & Biofuel – <1%</li>

Therefore, when considering this carbon-focused scenario the only emission reduction is from the diesel powered buses. Table 6-1 indicates that if an LRT or electrical bus system was implemented, there would only be a 1.5 % reduction in GHG emissions as the diesel buses do not contribute a large portion to the overall GHG emissions within the study area.

Table 6-1 Comparison of Annual Tonnes of CO2e: Business as Usual vs. Climate Focused

Assessment Scenario	Cars	Medium Trucks <sup>1</sup>	Heavy Trucks <sup>2</sup>	Buses	Total			
Build Scenario (Diesel Bus)	434,025	89,229	100,221	9,770	633,245			
Build Scenario (Carbon-Focused)	434,025	89,229	100,221	0	623,475			
Percent Difference								

#### Notes:

It should be noted that the above comparison is based solely on tailpipe emissions from buses. This comparison does not consider indirect emissions due to the sources used to generate electricity to power an LRT alternative or charging of the electrical bus system. Such comparison will require a number of unknown inputs related to the expected electricity grid mix in 2041.

Another carbon-focused scenario would be switching from diesel buses to lower-carbon alternative fuels such as natural gas or dimethyl ether. Another option is blending biological-based fuels such as biodiesel or hydrogenation-derived renewable diesel with conventional petroleum-based diesel. Regardless of the technology used for the public transit, a reduction in GHG emissions contributing to climate change would be seen by providing an alternative clean transportation option.

To guarantee continual GHG reductions, the 407 Transitway will ensure that all equipment is maintained and operated efficiently, to ensure no additional GHG emissions are developed. Stations will be designed to minimize idling for passenger vehicles parking or dropping off as well as for buses that are arriving and departing. To conclude, this new transitway system will provide reliable and safe public transit system to the public, while providing a positive effect on climate change with reducing passenger vehicles and congestion within the GTA. Lastly, the 407 Transitway is expected to withstand future extreme climate events such as high winds, high and low temperatures, and flooding by implementing maintenance and design features within the system.

<sup>&</sup>lt;sup>1</sup> Based on medium trucks consisting of two-thirds of the overall truck volumes.

<sup>&</sup>lt;sup>2</sup> Based on heavy trucks consisting of one-third of the overall truck volumes.

## 7 MITIGATION OF AIR QUALITY IMPACTS

There are several ways that particulate emissions can be mitigated during the construction and operation phases of the Project. The sections below describe proposed mitigation measures for both the traffic (operation) and construction phases of the Project.

## 7.1 Traffic Phase Mitigation

For the operation phase, there are many fuel and technology pathways available to reduce tailpipe emissions of the 407 Transitway buses. Switching from diesel to alternative fuels such as natural gas or dimethyl ether can reduce tailpipe emissions. Another option is blending biological-based fuels such as biodiesel or hydrogenation-derived renewable diesel with conventional petroleum-based diesel. Moreover, upgrading transit buses from conventional internal combustion engine technology to hybrid or electric technology can improve fuel economy or eliminate tailpipe emissions altogether. These pathways would simultaneously reduce air pollution and GHG emissions.

To reduce particulate impacts at nearby sensitive receptors, areas will be vegetated with evergreen trees, particularly in areas with the highest predicted levels of TSP, PM<sub>10</sub> and PM<sub>2.5</sub> (e.g. between the ETR 407 intersection with Winston Churchill and with Ninth Line).

## 7.2 Construction Phase Mitigation

High temperatures and wind have the potential to cause the release and disbursement of particulate emissions. Therefore, it is recommended that, if possible, construction activities that are likely to cause the release of particulates be avoided under such conditions. If avoidance is not possible, it is recommended that residents within the immediate surrounding area be notified of the potential for particulate emissions during construction or high wind and high temperature scenarios. The ECCC publication "Best Practices for the Reduction of air Emissions from Construction and Demolition Activities" provides several mitigation measures for reducing emissions during construction activities. It is recommended that these best management practices be followed during construction of the road to reduce any adverse air quality impact that may occur. Mitigation of road dust, as recommended in the ECCC document, includes the use of wind barriers (i.e., solid barriers, or trees and shrubs), wetting or non-chloride dust suppressants, equipment washing, and limiting the exposed area which may be a source of dust.

## 8 CONCLUSIONS AND RECOMMENDATIONS

### 8.1 Conclusions

With the exception of benzo[a]pyrene, benzene and NO<sub>2</sub>, there are no model predicted exceedances of applicable criteria or standards at sensitive receptor locations for all scenarios assessed.

Exceedances of the annual benzene and 24-hour and annual benzo[a]pyrene AAQC are predicted at all sensitive receptor locations for existing conditions and future scenarios assessed. These contaminants in particular have background concentrations that exceed their respective AAQC. Of note, due to improved engine technology, concentrations of these contaminants are predicted to decrease in the future with no discernable difference between the Build and No-Build scenarios predicted. The annual NO<sub>2</sub> CAAQS is only exceeded at one receptor location under existing conditions. In the future, the annual NO<sub>2</sub> CAAQS will not be exceeded, with no discernable difference between the Build and No-Build scenarios predicted.

## 8.1.1 Discussion of Background Air Quality

The results of the assessment show, through modelling and monitoring data, that the existing air quality in the study area is typical of a suburban setting, which is characterized by elevated pollution concentrations in relation to rural areas, with periodic exceedances of applicable air quality criteria. Available historical monitoring data near to the study area indicates that background concentrations of all contaminants assessed in this AQIA are within applicable criteria with the exception of benzene and benzo[a]pyrene concentrations which periodically exceed applicable criteria.

## 8.1.2 Comparison of Existing Conditions with Future Scenarios

The assessment identified that compared to existing conditions, concentrations of gaseous contaminants, with the exception of  $SO_2$  for which there is an insignificant increase, are predicted to improve despite increases in traffic resulting from population growth in the study area. This improvement is a result of assumptions regarding future low emission engine technologies and fuels. For particulate matter which is affected by tail pipe emissions, traffic volumes and road conditions (primarily silt loading of roads), predicted concentrations at sensitive receptor locations will generally increase in both future scenarios due to increased road dust attributable to higher traffic volumes, but will be below the applicable criteria.  $CO_2$ e emissions are shown to increase in the future scenarios relative to Existing Conditions due to increased traffic volumes (largely attributable to 407 ETR traffic), with changes due to the transitway representing less than a 2% increase in  $CO_2$ e emissions.

#### 8.1.3 Comparison of Future Scenarios

The assessment identified that, with the exception of TSP and  $PM_{10}$  concentrations, the Future Build scenario will generally result in a 2% increase in pollutant concentrations at sensitive receptor locations compared to the Future No-Build scenario. As a result, the increase in gaseous and particulate air pollutants attributable to the Project is deemed to be insignificant (i.e. <10%). The increase in predicted 24-hour maximum  $PM_{10}$  and annual TSP concentrations from Future No Build to Future Build is not significant (i.e. less <10%). Predicted 24-hour maximum TSP concentrations show a significant increase from Future No Build to Future Build at sensitive receptors in close vicinity of the proposed Transitway attributable to road dust from the 407 Transitway. Despite this increase, predicted 24-hour TSP concentrations are still below its respective criteria. Emissions of  $CO_2$ e are also shown to increase in the Future Build scenario relative to Future No-Build, however, the percent change is insignificant at less than 2%.

It should be noted that the AQIA is based on the 407 Transitway design provided in August 2019 and does not reflect the changes to the transitway alignment since then (e.g., shift in alignment, change in stations or maintenance facility). It is expected that minor changes in the design would not produce significantly different results from those presented above and would not affect the conclusions of the AQIA.

#### 8.2 Recommendations

Construction and operational air quality mitigation recommendations are provided in Chapter 7 of the AOIA.

## 9 REFERENCES

- Arcadis Canada Inc. 2017. 407 Transitway From West of Brant Street to West of Winston Churchill Boulevard, Air Quality Impact Assessment- Existing Conditions. October.
- Canadian Council of the Ministers of the Environment (CCME). 2017. Canadian Ambient Air Quality Standards (CAAQS) for Nitrogen Dioxide. November.
- Canadian Council of the Ministers of the Environment (CCME). 2016. Canadian Ambient Air Quality Standards (CAAQS) for Sulphur Dioxide. October.
- Canadian Council of the Ministers of the Environment (CCME). 2012. Canadian Ambient Air Quality Standards (CAAQS) for Fine Particulate Matter (PM<sub>2.5</sub>) and Ozone. October.
- Canadian Council of the Ministers of the Environment (CCME). 2000. Canada-Wide Standards for Fine Particulate Matter and Ozone. June.
- ChemInfo Services Inc. (ChemInfo). 2005. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities. March.
- Countess Environmental. 2006. Western Regional Air Partnership (WRAP) Fugitive Dust Handbook. Prepared for the Western Governors' Association. September.
- Environment and Climate Change Canada (ECCC). 2019. *National Inventory Report 1990-2017: Greenhouse Gas Sources and Sinks in Canada*. Part 3, 2019.
- Environment and Climate Change Canada (ECCC). 2017. *National Air Pollution Surveillance Network (NAPS) Annual Raw Data*, http://maps-cartes.ec.gc.ca/rnspa-naps/data.aspx.
- Environment and Climate Change Canada (ECCC). 2016. *National Inventory Report 1990-2014: Greenhouse Gas Sources and Sinks in Canada*. November.
- Intergovernmental Panel on Climate Change (IPCC). 2007. *Climate Change 2007 The Physical Science Basis.* November.
- Ontario Ministry of Natural Resources (MNR). 2007. Climate Change Projections for Ontario: Practical information for Policymakers and Planners. November.
- Ontario Ministry of the Environment and Climate Change (MOECC). 2018. *Ontario Air Standards for Sulphur Dioxide (SO<sub>2</sub>)*. Technical Assessment and Standards Development Branch Ministry of the Environment and Climate Change. March.
- Ontario Ministry of the Environment and Climate Change (MOECC). 2016. *Air Quality Ontario Annual Raw Data*, http://airqualityontario.com/history/index.php.

- Ontario Ministry of Environment and Climate Change (MOECC). 2016a. *Consideration of Climate Change in Environmental Assessments in Ontario, Draft.* August.
- Ontario Ministry of the Environment and Climate Change (MOECC). 2016b. *Guideline A-11: Air Dispersion Modelling Guideline for Ontario*. Ver. 3.0. PIBs # 5165e03.
- Ontario Ministry of the Environment, Conservation and Parks (MECP). 2019. *Ontario's Ambient Air Quality Criteria*. <a href="https://www.ontario.ca/page/ontarios-ambient-air-quality-criteria-sorted-contaminant-name">https://www.ontario.ca/page/ontarios-ambient-air-quality-criteria-sorted-contaminant-name</a>. Standards Development Branch. April.
- Ontario Ministry of Energy. 2017. Ontario's Electricity System- Frequently Asked Questions. November.
- Ontario Ministry of Transportation (MTO). 2012. Environmental Guide for Assessing and Mitigating the Air Quality Impacts and Greenhouse Gas Emissions of Provincial Transportation Projects. November.
- United States Environmental Protection Agency (U.S. EPA). 2011. Compilation of Air Pollutant Emission Factors. AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources, Draft Section 13.2.1 Paved Roads. November.

# **APPENDIX A: MOVES2014 INPUTS**

# **APPENDIX A: MOVES2014 INPUTS**

### **Summary of MOVES2014 Model Inputs**

As noted in Section 4.3.4, vehicle emission factors developed for the purposes of this air quality assessment were based on the U.S. EPA's Motor Vehicle Emission Simulator (MOVES) model. The U.S. EPA introduced MOVES in 2010 as a replacement emission inventory tool to the MOBILE6.2 model.

For this assessment, emission factors were developed for cars, medium trucks, heavy trucks and buses using MOVES2014a and Niagara County, New York (NY) State as the geographic surrogate for exhaust emissions. Although there are small temperature and humidity effects on exhaust emissions, the geographic proximity of Niagara County, NY to the study area are not expected to affect emission estimates to a level that would materially impact results and conclusions of this report.

The base year 2018, and the future horizon year 2041 were based on county-level MOVES runs using the "emission rates" calculation mode. In general, Chapter 5 of the MOVES2014 User Guide "Generate Emission Rates for County Scale Analyses" was followed. When running MOVES in the "emission rates" mode, many of the same inputs needed to run MOVES in "inventory" mode are required in order for the model to run in "emission rates" mode. However, not all inputs are actually used by the model in the calculation of emission rates. As a result, much of the default data available for Niagara County, NY could be used as input to MOVES without impacting the results. Default inputs used included:

- average speed distribution;
- road type distribution;
- ramp fraction;
- · fuels information; and
- hotelling.

Of this list, fuel supply information is the only data input that can directly affect the emission rates calculations. However, recent fuel supply data is not readily available for Ontario and as a result, default fuel information for Niagara County, NY was used as a surrogate. Since Canada's onroad vehicle and engine emissions regulations<sup>1</sup> are closely aligned with U.S. emissions regulations, the differences in fuel and engine characteristics are considered minor enough so as not to affect emission estimates to a level that would materially impact results and conclusions of this report. However, it should be noted that it was conservatively assumed that all buses were

<sup>&</sup>lt;sup>1</sup> Government of Canada. On-Road Vehicle and Engine Emission Regulations SOR/2003-2.

powered by diesel fuel. The AVFT (alternative vehicle fuels and technologies) input table was adjusted to reflect this. A summary of the primary MOVES input parameters is provided in Table A-1.

Table A-1 MOVES Input Parameters

Parameter	Input
Scale	County Domain
Calculation Mode	Emission Rates
Years	2018, 2041
Months	Summer (June, July, August) and Winter (December, January, February)
Geographical Bounds	Niagara County, NY
Meteorology	Average temperature and humidity based on 2018 data from Toronto Pearson Int'l Airport
Fuels	Gasoline Fuels, Diesel Fuels
Source Use Types	21, 31, 32, 42, 52,53, 61, 62
Road Type	4- Urban Restricted Access, 5 – Urban Unrestricted Access
Contaminants and Processes	All Processes for NO <sub>x</sub> , CO, SO <sub>2</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , Acetaldehyde, Acrolein, Benzene, 1,3-butadiene, Formaldehyde, Benzo[a]Pyrene
Speed Distribution	MOVES Defaults
Fuel Composition	IVIOVES Delaulis
Vehicle Age Distribution	30-year distribution from Age Distribution Projection Tool for MOVES2014

Age distribution data was based on data available from ECCC for the year 2006, which was provided to Arcadis for a previous project. The Age Distribution Projection Tool for MOVES2014 (available from the U.S. EPA) was then used to project the age distributions. I/M program information was not used in this assessment.

Rate per distance tables were generated by MOVES, which provide hourly emission factors for each pollutant by month, vehicle type, speed and road type. For each horizon year, the maximum emission factors for each vehicle type and speed bin were calculated. As shown in Table A-1, emission factors for eight (8) vehicle types were generated; however, the traffic data provided by IBI Group only had four (4) categories: cars, medium trucks, heavy trucks and transit buses. Therefore, maximum emission factors for some vehicle categories were averaged using the classification outlined in Table A-2.

Table A-2 illustrates which MOVES source types were averaged together for the composite emission factor.

The emission factors for each vehicle type and speed bin were then used to generate the input files for CAL3QHCR. Note that the MOVES model does not output an emission factor for TSP.

Therefore, the tailpipe emission factor for TSP was assumed to be equal to the MOVES emission factor for PM<sub>10</sub>.

The settling and deposition velocities for TSP in CAL3QCHR were 0.15 cm/s and 1.8 cm/s, respectively.

Table A-2 Classification of the MOVES Vehicle Types

MOVES Source Type ID	MOVES Source Type Name	Assessment Source Type Classification
21	Passenger Car	Cars <sup>1</sup>
31	Passenger truck	Cars <sup>1</sup>
32	Light commercial truck	Medium Trucks <sup>2</sup>
42	Bus	Bus
52	Single-unit short-haul truck	Medium Trucks <sup>2</sup>
53	Single-unit long-haul truck	Medium Trucks <sup>2</sup>
61	Combination short-haul truck	Heavy Trucks <sup>3</sup>
62	Combination long-haul truck	Heavy Trucks <sup>3</sup>

#### Notes:

The traffic volume for Cars includes all vehicles having designed primarily for the transportation of nine or fewer passengers or the transportation of cargo (e.g., vans and light trucks). Generally, the gross vehicle weight is less than 4,500 kg.

The traffic volume for Medium Trucks includes all vehicles designed for the transportation of cargo. Generally, the gross vehicle weight is greater than 4,500 kg but less than 12,000 kg.

The traffic volume for Heavy Trucks includes all vehicles designed for the transportation of cargo. Generally, the gross vehicle weight is greater than 12,000 kg.

# APPENDIX B: CAL3QHCR MODEL RESULTS TABLES

Table B-1 24-hour Maximum TSP Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Table B-1 24-	hour Maximum TSP Concentrations for	Existing Cond	itions, Future No-I	Build and Future	Build Scenarios	8						
Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R01	Residential (Single dwelling)	(μg/m ) 46.3	55.8	62.5	12%	69.6	25%	11%	120	46%	52%	58%
NSA1 R02	Residential (Single dwelling)	46.3	55.7	62.2	12%	72.5	30%	17%	120	46%	52%	60%
NSA1 R03	Residential (Single dwelling)	46.3	54.9	61.0	11%	70.4	28%	15%	120	46%	51%	59%
NSA1 R04	Residential (Single dwelling)	46.3	56.2	63.1	12%	75.3	34%	19%	120	47%	53%	63%
NSA1 R05	Residential (Condominium)	46.3	53.7	59.0	10%	66.9	25%	13%	120	45%	49%	56%
NSA1_R06	Residential (Townhouse)	46.3	51.7	55.4	7%	59.2	14%	7%	120	43%	46%	49%
 NSA1_R07	Residential (Townhouse)	46.3	51.9	55.7	7%	59.5	15%	7%	120	43%	46%	50%
	Residential (Townhouse)	46.3	52.5	56.7	8%	60.7	16%	7%	120	44%	47%	51%
NSA1_R09	Residential (Townhouse)	46.3	52.4	56.6	8%	60.6	16%	7%	120	44%	47%	50%
NSA1_R10	Residential (Townhouse)	46.3	52.6	57.0	8%	61.0	16%	7%	120	44%	47%	51%
NSA1_R11	Residential (Townhouse)	46.3	52.0	55.9	7%	59.7	15%	7%	120	43%	47%	50%
NSA1_R12	Residential (Townhouse)	46.3	51.1	54.4	6%	57.8	13%	6%	120	43%	45%	48%
NSA1_R13	Residential (Single dwelling)	46.3	51.4	54.8	7%	58.3	13%	6%	120	43%	46%	49%
NSA1_R14	Residential (Single dwelling)	46.3	50.9	54.0	6%	57.2	12%	6%	120	42%	45%	48%
NSA1_R15	Residential (Townhouse)	46.3	51.8	55.5	7%	59.2	14%	7%	120	43%	46%	49%
NSA1_R16	Residential (Townhouse)	46.3	51.3	54.6	6%	58.0	13%	6%	120	43%	45%	48%
NSA1_R17	Residential (Townhouse)	46.3	50.1	52.5	5%	55.4	11%	6%	120	42%	44%	46%
NSA1_R18	Residential (Townhouse)	46.3	55.3	61.6	12%	72.6	31%	18%	120	46%	51%	61%
NSA1_R19	Residential (Townhouse)	46.3	55.7	62.3	12%	74.3	33%	19%	120	46%	52%	62%
NSA1_R20	Residential (Single dwelling)	46.3	52.2	56.5	8%	62.5	20%	11%	120	44%	47%	52%
NSA1_R21	Residential (Single dwelling)	46.3	53.9	59.3	10%	67.7	26%	14%	120	45%	49%	56%
NSA1_R22	Residential (Single dwelling)	46.3	52.5	57.0	8%	63.3	21%	11%	120	44%	47%	53%
NSA1_R23	Residential (Townhouse)	46.3	52.7	57.2	9%	63.6	21%	11%	120	44%	48%	53%
NSA1_R24	Residential (Townhouse)	46.3	52.0	56.1	8%	61.6	18%	10%	120	43%	47%	51%
NSA1_R25	Residential (Townhouse)	46.3	51.3	54.5	6%	59.4	16%	9%	120	43%	45%	50%
NSA1_R26	Residential (Townhouse)	46.3	50.2	52.8	5%	56.5	13%	7%	120	42%	44%	47%
NSA1_R27	Residential (Townhouse)	46.3	51.5	54.9	7%	60.0	17%	9%	120	43%	46%	50%
NSA1_R28	Residential (Townhouse)	46.3	53.7	58.9	10%	66.4	24%	13%	120	45%	49%	55%
NSA1_R29	Residential (Single dwelling)	46.3	49.1	50.8	3%	53.2	8%	5%	120	41%	42%	44%
	Residential (Single dwelling)	46.3	49.5	51.5	4%	54.1	9%	5%	120	41%	43%	45%
NSA1_R31	Residential (Single dwelling)	46.3	50.5	53.2	5%	56.4	12%	6%	120	42%	44%	47%
NSA1_R32	Residential (Single dwelling)	46.3	50.1	52.6	5%	55.6	11%	6%	120	42%	44%	46%
NSA1_R33	Residential (Single dwelling)	46.3	50.5	53.3	5%	56.6	12%	6%	120	42%	44%	47%
NSA1_R34	Residential (Single dwelling)	46.3	53.6	58.7	10%	66.0	23%	12%	120	45%	49%	55%
NSA1_R35	Residential (Single dwelling)	46.3	53.9	59.2	10%	66.8	24%	13%	120	45%	49%	56%
NSA1_R36	Residential (Single dwelling)	46.3	54.0	59.5	10%	67.2	24%	13%	120	45%	50%	56%
NSA1_R37	Residential (Single dwelling)	46.3	50.9	53.9	6%	57.4	13%	6%	120	42%	45%	48%
NSA1_R38	Residential (Single dwelling)	46.3	51.2	54.5	6%	58.1	13%	7%	120	43%	45%	48%
NSA1_R39	Residential (Single dwelling)	46.3	53.9	59.4	10%	67.0	24%	13%	120	45%	49%	56%
	Residential (Single dwelling)	46.3	54.2	59.8	10%	67.8	25%	13%	120	45%	50%	56%
NSA1_R41	Residential (Single dwelling)	46.3	50.8	53.7	6%	57.1	12%	6%	120	42%	45%	48%
NSA1_R42	Residential (Single dwelling)	46.3	53.8	59.1	10%	66.4	24%	12%	120	45%	49%	55%
NSA1_R43	Residential (Single dwelling)	46.3	54.2	59.8	10%	67.7	25%	13%	120	45%	50%	56%
NSA1_R44	Residential (Single dwelling)	46.3	50.1	52.5	5%	55.5	11%	6%	120	42%	44%	46%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	-Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	440/	μg/m³	200/	4.40/	420	400/	E40/	F00/
NSA2_R01	Residential (Single dwelling)	46.3	54.7	60.6	11%	69.2	26%	14%	120	46%	51%	58%
NSA2_R02	Residential (Single dwelling)	46.3	54.4	60.2	11%	68.3	25%	13%	120	45%	50%	57%
NSA2_R03	Residential (Single dwelling)	46.3	55.0	61.0	11%	69.9	27%	15%	120	46%	51%	58%
NSA2_R04	Residential (Single dwelling)	46.3	50.8	53.7	6%	57.0	12%	6%	120	42%	45%	47%
NSA2_R05	Residential (Single dwelling)	46.3	51.5	55.0	7%	58.5	14%	6%	120	43%	46%	49%
NSA2_R06	Residential (Single dwelling)	46.3	51.1	54.2	6%	57.5	12%	6%	120	43%	45%	48%
NSA2_R07	Residential (Townhouse)	46.3	55.0	61.1	11%	70.1	27%	15%	120	46%	51%	58%
NSA2_R08	Residential (Townhouse)	46.3	54.6	60.3	11%	68.1	25%	13%	120	45%	50%	57%
NSA2_R09	Residential (Townhouse)	46.3	55.2	61.4	11%	70.4	28%	15%	120	46%	51%	59%
NSA2_R10	Residential (Single dwelling)	46.3	51.8	55.4	7%	58.9	14%	6%	120	43%	46%	49%
NSA2_R11	Residential (Single dwelling)	46.3	52.1	56.0	7%	59.5	14%	6%	120	43%	47%	50%
NSA2_R12	Residential (Single dwelling)	46.3	52.3	56.2	7%	59.7	14%	6%	120	44%	47%	50%
NSA2_R13	Residential (Townhouse)	46.3	55.0	61.0	11%	69.3	26%	14%	120	46%	51%	58%
NSA2_R14	Residential (Townhouse)	46.3	55.6	62.1	12%	71.1	28%	14%	120	46%	52%	59%
NSA2_R15	Residential (Single dwelling)	46.3	56.1	62.9	12%	71.9	28%	14%	120	47%	52%	60%
NSA2_R16	Residential (Single dwelling)	46.3	56.9	63.9	12%	73.2	29%	15%	120	47%	53%	61%
NSA2 R17	Residential (Single dwelling)	46.3	57.0	63.8	12%	72.1	27%	13%	120	47%	53%	60%
NSA2 R18	Residential (Single dwelling)	46.3	55.6	61.2	10%	67.5	21%	10%	120	46%	51%	56%
NSA2 R19	Residential (Single dwelling)	46.3	52.2	55.9	7%	59.1	13%	6%	120	44%	47%	49%
NSA2 R20	Residential (Single dwelling)	46.3	52.8	56.6	7%	58.9	12%	4%	120	44%	47%	49%
NSA2 R21	Residential (Townhouse)	46.3	55.8	59.4	6%	60.7	9%	2%	120	46%	49%	51%
NSA2_R22	Residential (Single dwelling)	46.3	54.8	57.1	4%	58.2	6%	2%	120	46%	48%	48%
NSA2 R23	Residential (Single dwelling)	46.3	53.2	56.2	6%	57.8	9%	3%	120	44%	47%	48%
NSA2 R24	Residential (Single dwelling)	46.3	51.7	54.8	6%	59.8	16%	9%	120	43%	46%	50%
NSA2 R25	Residential (Townhouse)	46.3	48.6	49.5	2%	50.6	4%	2%	120	41%	41%	42%
		46.3	48.0	48.7	1%	49.8	4%	2%	120	40%	41%	41%
NSA2_R26	Residential (Townhouse)	46.3	48.1	49.0	2%	51.6	7%	5%	120	40%	41%	43%
NSA2_R27	Residential (Single dwelling)	46.3	48.2	49.4	2%	52.5	9%	6%	120	40%	41%	44%
NSA2_R28	Residential (Single dwelling)	46.3	48.3	49.9	3%	52.2	8%	5%	120	40%	42%	44%
NSA2_R29	Residential (Single dwelling)	+			+		+					
NSA2_R30	Residential (Single dwelling)	46.3	48.5	50.2	4%	52.1	8%	4%	120	40%	42%	43%
NSA2_R31	Residential (Single dwelling)	46.3	48.4	50.0	3%	51.6	7%	3%	120	40%	42%	43%
NSA2_R32	Residential (Single dwelling)	46.3	48.0	49.3	3%	50.7	6%	3%	120	40%	41%	42%
NSA2_R33	Residential (Single dwelling)	46.3	47.9	49.0	2%	50.4	5%	3%	120	40%	41%	42%
NSA2_R34	Residential (Single dwelling)	46.3	47.8	48.9	2%	50.3	5%	3%	120	40%	41%	42%
NSA3_R01	Residential (Single dwelling)	46.3	48.3	49.8	3%	51.4	6%	3%	120	40%	41%	43%
NSA3_R02	Residential (Single dwelling)	46.3	48.2	49.7	3%	51.2	6%	3%	120	40%	41%	43%
NSA3_R03	Residential (Single dwelling)	46.3	48.5	50.3	4%	52.1	7%	4%	120	40%	42%	43%
NSA3_R04	Residential (Single dwelling)	46.3	49.2	51.4	5%	53.3	8%	4%	120	41%	43%	44%
NSA3_R05	Residential (Single dwelling)	46.3	48.9	50.6	3%	52.0	6%	3%	120	41%	42%	43%
NSA3_R06	Residential (Single dwelling)	46.3	48.0	48.8	2%	50.5	5%	3%	120	40%	41%	42%
NSA4_R01	Residential (Single dwelling)	46.3	48.9	51.4	5%	53.1	9%	3%	120	41%	43%	44%
NSA4_R02	Residential (Single dwelling)	46.3	48.5	50.4	4%	52.6	9%	4%	120	40%	42%	44%
NSA4_R03	Residential (Single dwelling)	46.3	49.8	52.8	6%	56.0	12%	6%	120	42%	44%	47%
NSA4_R04	Residential (Single dwelling)	46.3	48.7	50.7	4%	52.8	8%	4%	120	41%	42%	44%
NSA4_R05	Residential (Single dwelling)	46.3	49.8	52.8	6%	54.6	10%	3%	120	42%	44%	46%
NSA5_R01	Residential (Single dwelling)	46.3	49.5	52.5	6%	54.6	10%	4%	120	41%	44%	46%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (μg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA5 R02	Residential (Single dwelling)	46.3	48.2	49.8	3%	51.6	7%	4%	120	40%	41%	43%
NSA6 R01	Residential (Single dwelling)	46.3	51.1	55.9	10%	58.4	14%	4%	120	43%	47%	49%
NSA6 R02	Residential (Single dwelling)	46.3	50.8	55.3	9%	64.0	26%	16%	120	42%	46%	53%
NSA6 R03	Residential (Single dwelling)	46.3	50.7	55.1	9%	76.4	51%	39%	120	42%	46%	64%
NSA6 R04	Residential (Single dwelling)	46.3	49.1	51.8	5%	54.7	11%	6%	120	41%	43%	46%
NSA6 R05	Residential (Single dwelling)	46.3	50.4	54.6	8%	60.0	19%	10%	120	42%	46%	50%
NSA6 R06	Residential (Single dwelling)	46.3	50.9	55.5	9%	57.9	14%	4%	120	42%	46%	48%
NSA7 R01	Residential (Single dwelling)	46.3	49.9	52.8	6%	54.2	9%	3%	120	42%	44%	45%
NSA8 R01	Residential (Single dwelling)	46.3	49.1	50.8	4%	52.3	7%	3%	120	41%	42%	44%
NSA8 R02	Residential (Single dwelling)	46.3	52.8	57.4	9%	62.7	19%	9%	120	44%	48%	52%
NSA8 R03	Residential (Single dwelling)	46.3	54.1	60.1	11%	74.0	37%	23%	120	45%	50%	62%
NSA8 R04	Residential (Single dwelling)	46.3	50.8	54.0	6%	57.4	13%	6%	120	42%	45%	48%
NSA8 R05	Residential (Single dwelling)	46.3	50.2	52.9	5%	55.8	11%	5%	120	42%	44%	47%
NSA8 R06	Residential (Single dwelling)	46.3	50.1	52.9	6%	55.9	11%	6%	120	42%	44%	47%
NSA8 R07	Residential (Single dwelling)	46.3	49.6	52.0	5%	54.5	10%	5%	120	41%	43%	45%
NSA8 R08	Residential (Single dwelling)	46.3	48.8	50.5	4%	55.0	13%	9%	120	41%	42%	46%
NSA8 R09	Residential (Single dwelling)	46.3	48.5	50.3	4%	54.7	13%	9%	120	40%	42%	46%
NSA8 R10	Residential (Single dwelling)	46.3	48.7	50.3	3%	60.9	25%	21%	120	41%	42%	51%
NSA8 R11	Residential (Single dwelling)	46.3	48.7	50.4	3%	58.9	21%	17%	120	41%	42%	49%
NSA8 R12	Residential (Single dwelling)	46.3	49.0	50.8	4%	54.2	11%	7%	120	41%	42%	45%
NSA8 R13	Residential (Single dwelling)	46.3	48.6	50.1	3%	51.9	7%	3%	120	40%	42%	43%
NSA8 R14	Residential (Single dwelling)	46.3	48.3	49.6	3%	51.8	7%	4%	120	40%	41%	43%
NSA8 R15	Residential (Single dwelling)	46.3	48.5	49.8	3%	54.0	11%	8%	120	40%	42%	45%
NSA8 R16	Residential (Single dwelling)	46.3	48.8	50.0	2%	53.2	9%	6%	120	41%	42%	44%
NSA8 R17	Residential (Townhouse)	46.3	48.8	50.2	3%	53.1	9%	6%	120	41%	42%	44%
NSA9 R01	Residential (Single dwelling)	46.3	48.7	50.1	3%	53.0	9%	6%	120	41%	42%	44%
NSA9 R02	Residential (Single dwelling)	46.3	48.4	49.7	3%	52.2	8%	5%	120	40%	41%	43%
NSA9 R03	Residential (Single dwelling)	46.3	48.6	50.2	3%	53.4	10%	6%	120	41%	42%	44%
NSA9 R04	Residential (Single dwelling)	46.3	48.6	50.1	3%	53.4	10%	7%	120	40%	42%	44%
NSA9 R05	Residential (Single dwelling)	46.3	48.3	49.6	3%	51.8	7%	4%	120	40%	41%	43%
NSA9 R06	Residential (Single dwelling)	46.3	48.6	50.2	3%	52.8	9%	5%	120	41%	42%	44%
NSA9 R07	Residential (Single dwelling)	46.3	48.4	49.8	3%	51.6	7%	4%	120	40%	42%	43%
NSA9 R08	Residential (Single dwelling)	46.3	48.6	50.0	3%	51.9	7%	4%	120	41%	42%	43%
NSA9_R09	Residential (Single dwelling)	46.3	48.9	50.4	3%	52.3	7%	4%	120	41%	42%	44%
NSA9_R10	Residential (Single dwelling)	46.3	48.9	50.5	3%	52.8	8%	5%	120	41%	42%	44%
NSA9_R11	Residential (Single dwelling)	46.3	48.8	50.5	3%	53.2	9%	5%	120	41%	42%	44%
NSA9_R13	Residential (Single dwelling)	46.3	48.8	50.4	3%	54.3	11%	8%	120	41%	42%	45%
NSA9_R14	Residential (Single dwelling)	46.3	49.0	50.6	3%	53.2	8%	5%	120	41%	42%	44%
NSA9_R15	Residential (Single dwelling)	46.3	51.9	55.6	7%	57.4	11%	3%	120	43%	46%	48%
	Residential (Single dwelling)	46.3	49.5	51.3	4%	53.3	8%	4%	120	41%	43%	44%
NSA10_R02	Residential (Single dwelling)	46.3	52.5	55.4	6%	61.4	17%	11%	120	44%	46%	51%
NSA10_R03	Residential (Single dwelling)	46.3	50.2	52.6	5%	58.8	17%	12%	120	42%	44%	49%
NSA10_R04	Residential (Single dwelling)	46.3	49.8	52.3	5%	58.8	18%	13%	120	42%	44%	49%
NSA10_R05	Residential (Single dwelling)	46.3	49.8	52.4	5%	58.6	18%	12%	120	42%	44%	49%
NSA10_R06	Residential (Single dwelling)	46.3	49.9	52.5	5%	58.9	18%	12%	120	42%	44%	49%
NSA10_R07	Residential (Single dwelling)	46.3	49.9	52.6	5%	59.6	20%	13%	120	42%	44%	50%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA10 R08	Residential (Single dwelling)	46.3	49.8	52.6	6%	59.8	20%	14%	120	42%	44%	50%
NSA10 R09	Residential (Single dwelling)	46.3	49.9	52.6	6%	60.7	22%	15%	120	42%	44%	51%
NSA10 R10	Residential (Single dwelling)	46.3	50.0	52.5	5%	55.5	11%	6%	120	42%	44%	46%
NSA10 R11	Residential (Single dwelling)	46.3	50.0	52.6	5%	54.8	10%	4%	120	42%	44%	46%
NSA10 R12	Residential (Single dwelling)	46.3	49.9	52.7	6%	58.4	17%	11%	120	42%	44%	49%
NSA10 R13	Residential (Single dwelling)	46.3	49.9	52.5	5%	56.4	13%	7%	120	42%	44%	47%
NSA10 R14	Residential (Single dwelling)	46.3	57.3	64.8	13%	65.7	15%	1%	120	48%	54%	55%
NSA10 R15	Residential (Single dwelling)	46.3	55.0	60.8	11%	61.8	13%	2%	120	46%	51%	52%
NSA10 R16	Residential (Single dwelling)	46.3	64.8	78.9	22%	79.9	23%	1%	120	54%	66%	67%
NSA11 R01	Residential (Single dwelling)	46.3	51.6	54.5	6%	58.4	13%	7%	120	43%	45%	49%
NSA12 R01	Residential (Single dwelling)	46.3	52.2	55.1	5%	56.4	8%	2%	120	43%	46%	47%
NSA12 R02	Residential (Single dwelling)	46.3	51.9	54.6	5%	55.9	8%	2%	120	43%	45%	47%
NSA12 R03	Residential (Single dwelling)	46.3	52.2	55.2	6%	56.6	8%	3%	120	44%	46%	47%
NSA12_R03	Residential (Single dwelling)	46.3	50.4	52.2	3%	54.2	8%	4%	120	42%	43%	45%
NSA12_R04	Residential (Single dwelling)	46.3	50.3	52.1	3%	54.0	7%	4%	120	42%	43%	45%
NSA12_R05	Residential (Single dwelling)	46.3	50.3	52.1	4%	54.1	7%	4%	120	42%	43%	45%
NSA12_R00	Residential (Single dwelling)	46.3	50.2	51.9	3%	53.9	7%	4%	120	42%	43%	45%
NSA12_R07	Residential (Single dwelling)	46.3	56.9	63.1	11%	70.3	23%	11%	120	47%	53%	59%
NSA12_R08	Residential (Single dwelling)	46.3	53.7	57.7	7%	62.1	15%	8%	120	45%	48%	52%
NSA12_R09 NSA12_R10	, , ,	46.3	56.2	62.0	10%	68.3	22%	10%	120	47%	52%	57%
<del>-</del>	Residential (Single dwelling)	46.3	52.3	55.2	6%	56.8	9%	3%	120	44%	46%	47%
NSA12_R11 NSA12_R12	Residential (Single dwelling)	46.3	52.2	55.2	6%	56.9	9%	3%	120	44%	46%	47%
	Residential (Single dwelling)	46.3	51.9	54.6	5%	56.4	9%	3%	120	43%	46%	47%
NSA12_R13	Residential (Single dwelling)	46.3	51.6	54.2	5%	56.2	9%	4%	120	43%	45%	47%
NSA12_R14	Residential (Single dwelling)	46.3	51.2	53.7	5%	55.7	9%	4%	120	43%	45%	46%
NSA12_R15	Residential (Single dwelling)	46.3	55.3	60.2	9%	65.9	19%	9%	120	46%	50%	55%
NSA12_R16	Residential (Single dwelling)	46.3	51.1	53.6	5%	55.5	9%	4%	120	43%	45%	46%
NSA12_R17	Residential (Single dwelling)	46.3	51.0	53.5	5%	55.4	9%	4%	120	43%	45%	46%
NSA12_R18	Residential (Single dwelling)	46.3	54.2	58.6	8%	60.6	12%	3%	120	45%	49%	50%
	Residential (Townhouse)	46.3	60.5	68.6	13%	71.1	18%	4%	120	50%	57%	59%
NSA12_R20	Residential (Townhouse)	46.3	58.4	65.3	12%	67.7	16%	4%	120	49%	54%	56%
NSA12_R21	Residential (Townhouse)	46.3	54.7	59.3	8%	61.4	12%	4%	120	46%	49%	51%
NSA12_R22	Residential (Townhouse)	46.3	51.0	53.4	5%	55.1	8%	3%	120	42%	44%	46%
	Residential (Townhouse)	46.3	52.1	55.2	6%	56.9	9%	3%	120	43%	46%	47%
NSA12_R24	Residential (Townhouse)	46.3	53.6	57.5	7%	59.5	11%	3%	120	45%	48%	50%
NSA12_R25	Residential (Single dwelling)	46.3	52.7	56.2	7%	59.5	10%	3%	120	45%	47%	48%
NSA12_R26	Residential (Single dwelling)	46.3	52.7 52.5	55.8	6%	57.6	10%	3%	120	44%	47%	48%
NSA12_R27	Residential (Single dwelling)	46.3	52.5 52.5	56.0	7%	57.8	10%	3%	120	44%	47%	48%
NSA12_R28	Residential (Single dwelling)				8%							50%
NSA12_R29	Residential (Single dwelling)	46.3 46.3	53.7 55.8	57.9	10%	60.0	12% 14%	3%	120	45% 46%	48% 51%	53%
NSA12_R30	Residential (Single dwelling)			61.4		63.9	ł	4%	120			53%
NSA12_R31	Residential (Single dwelling)	46.3	59.1	66.8	13%	69.6	18%	4%	120	49%	56%	
NSA12_R32	Residential (Single dwelling)	46.3	60.6	69.2	14%	71.8	18%	4%	120	51%	58%	60%
NSA12_R33	Residential (Single dwelling)	46.3	51.2	53.8	5%	55.4	8%	3%	120	43%	45%	46%
_	Residential (Townhouse)	46.3	49.7	51.4	3%	53.1	7%	3%	120	41%	43%	44%
NSA12_R35	Residential (Townhouse)	46.3	49.8	51.5	4%	53.3	7%	3%	120	41%	43%	44%
NSA12_R36	Residential (Townhouse)	46.3	49.8	51.6	4%	53.3	7%	3%	120	41%	43%	44%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA12 R37	Residential (Townhouse)	46.3	49.7	51.4	4%	53.2	7%	3%	120	41%	43%	44%
NSA12 R38	Residential (Townhouse)	46.3	49.7	51.5	4%	53.5	8%	4%	120	41%	43%	45%
NSA12_R39	Residential (Townhouse)	46.3	49.7	51.4	3%	53.6	8%	4%	120	41%	43%	45%
NSA12_R40	Residential (Single dwelling)	46.3	49.1	50.5	3%	52.2	6%	3%	120	41%	42%	43%
NSA12_R41	Residential (Single dwelling)	46.3	49.8	51.7	4%	53.9	8%	4%	120	42%	43%	45%
NSA12_R42	Residential (Single dwelling)	46.3	49.9	51.8	4%	54.0	8%	4%	120	42%	43%	45%
NSA12_R43	Residential (Single dwelling)	46.3	49.9	51.7	4%	53.9	8%	4%	120	42%	43%	45%
NSA12_R44	Residential (Single dwelling)	46.3	49.9	51.7	4%	53.8	8%	4%	120	42%	43%	45%
NSA12_R45	Residential (Single dwelling)	46.3	49.8	51.7	4%	53.8	8%	4%	120	42%	43%	45%
NSA12_R46	Residential (Single dwelling)	46.3	49.7	51.5	4%	53.4	7%	4%	120	41%	43%	45%
NSA12_R47	Residential (Single dwelling)	46.3	49.8	51.6	4%	53.6	8%	4%	120	41%	43%	45%
NSA12_R48	Residential (Single dwelling)	46.3	49.9	51.8	4%	53.8	8%	4%	120	42%	43%	45%
NSA12_R49	Residential (Townhouse)	46.3	49.9	51.8	4%	53.8	8%	4%	120	42%	43%	45%
NSA12_R50	Residential (Single dwelling)	46.3	60.6	69.1	14%	71.7	18%	4%	120	50%	58%	60%
NSA12_R51	Residential (Single dwelling)	46.3	60.7	69.4	14%	72.1	19%	4%	120	51%	58%	60%
NSA12_R52	Residential (Single dwelling)	46.3	59.4	67.3	13%	70.0	18%	4%	120	50%	56%	58%
NSA12_R53	Residential (Single dwelling)	46.3	60.7	69.3	14%	72.2	19%	4%	120	51%	58%	60%
NSA12_R54	Residential (Single dwelling)	46.3	60.2	68.6	14%	71.7	19%	5%	120	50%	57%	60%
NSA12_R55	Residential (Single dwelling)	46.3	59.1	66.8	13%	69.8	18%	4%	120	49%	56%	58%
NSA12_R56	Residential (Single dwelling)	46.3	60.1	68.4	14%	71.4	19%	4%	120	50%	57%	60%
NSA12_R57	Residential (Single dwelling)	46.3	60.5	69.1	14%	72.0	19%	4%	120	50%	58%	60%
NSA12_R58	Residential (Single dwelling)	46.3	60.6	69.3	14%	72.1	19%	4%	120	51%	58%	60%
NSA12_R59	Residential (Single dwelling)	46.3	60.7	69.4	14%	72.2	19%	4%	120	51%	58%	60%
NSA12_R60	Residential (Single dwelling)	46.3	60.8	69.5	14%	71.9	18%	4%	120	51%	58%	60%
NSA12_R61	Residential (Single dwelling)	46.3	58.5	65.2	11%	66.9	14%	3%	120	49%	54%	56%
NSA12_R62	Residential (Single dwelling)	46.3	50.1	52.2	4%	54.3	8%	4%	120	42%	43%	45%
NSA12_R63	Residential (Single dwelling)	46.3	50.0	52.0	4%	54.0	8%	4%	120	42%	43%	45%
NSA12_R64	Residential (Single dwelling)	46.3	50.2	52.3	4%	54.5	9%	4%	120	42%	44%	45%
NSA12_R65	Residential (Single dwelling)	46.3	50.2	52.3	4%	54.7	9%	5%	120	42%	44%	46%

Table B-2 Annual Average TSP Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m°)	00/	(µg/m³)	00/	00/	00	400/	400/	400/
NSA1_R01	Residential (Single dwelling)	26.0	27.7	29.5	6%	29.5	6%	0%	60	46%	49%	49%
NSA1_R02	Residential (Single dwelling)	26.0	27.7	30.8	11%	30.8	11%	0%	60	46%	51%	51%
NSA1_R03	Residential (Single dwelling)	26.0	27.6	30.4	10%	30.4	10%	0%	60	46%	51%	51%
NSA1_R04	Residential (Single dwelling)	26.0	27.8	31.4	13%	31.4	13%	0%	60	46%	52%	52%
NSA1_R05	Residential (Condominium)	26.0	27.3	29.8	9%	29.8	9%	0%	60	46%	50%	50%
NSA1_R06	Residential (Townhouse)	26.0	27.8	30.2	9%	30.2	9%	0%	60	46% 46%	50%	50%
NSA1_R07	Residential (Townhouse)	26.0	27.9 28.1	30.4	9% 10%	30.4	9% 10%	0%	60	47%	51% 51%	51% 51%
NSA1_R08	Residential (Townhouse)	26.0		30.8		30.8		0%	60	47%		
NSA1_R09	Residential (Townhouse)	26.0	28.0 28.1	30.7	10%	30.7	10%	0%	60	47%	51%	51% 51%
NSA1_R10	Residential (Townhouse)	26.0		30.9	10%	30.9	10% 9%	0%	60	46%	51%	51%
NSA1_R11	Residential (Townhouse)	26.0	27.9	30.4	9% 8%	30.4		0%	60	+	51%	50%
NSA1_R12	Residential (Townhouse)	26.0 26.0	27.6 27.7	29.8 30.0	8% 8%	29.8 30.0	8% 8%	0% 0%	60 60	46% 46%	50% 50%	50%
NSA1_R13	Residential (Single dwelling)	26.0	27.5	29.6	8%	29.6	8%	0%	60	46%	49%	49%
NSA1_R14	Residential (Single dwelling)	26.0	27.8	29.2	5%	30.3	9%	4%	60	46%	49%	50%
NSA1_R15	Residential (Townhouse)	26.0	27.7	28.9	4%	29.9	8%	4%	60	46%	48%	50%
NSA1_R16	Residential (Townhouse)	26.0	27.2	28.2	3%	29.0	6%	3%	60	45%	47%	48%
NSA1_R17	Residential (Townhouse)	26.0	27.7	28.8	4%	30.9	12%	7%	60	46%	48%	52%
NSA1_R18	Residential (Townhouse)	26.0	27.7	29.0	4%	31.3	13%	8%	60	46%	48%	52%
NSA1_R19	Residential (Townhouse)	26.0	27.1	27.8	3%	28.9	7%	4%	60	45%	46%	48%
NSA1_R20	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.4	28.4	4%	29.9	9%	6%	60	46%	47%	50%
NSA1_R21 NSA1_R22	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.1	27.9	3%	29.1	7%	4%	60	45%	47%	48%
NSA1_R23	Residential (Townhouse)	26.0	27.1	27.9	3%	29.1	7%	4%	60	45%	47%	49%
NSA1_R24	Residential (Townhouse)	26.0	27.0	27.7	3%	28.7	6%	4%	60	45%	46%	48%
NSA1_R25	Residential (Townhouse)	26.0	26.9	27.5	2%	28.3	5%	3%	60	45%	46%	47%
NSA1 R26	Residential (Townhouse)	26.0	26.7	27.2	2%	27.8	4%	2%	60	44%	45%	46%
NSA1_R27	Residential (Townhouse)	26.0	26.9	27.6	2%	28.4	6%	3%	60	45%	46%	47%
NSA1 R28	Residential (Townhouse)	26.0	27.3	28.3	3%	29.7	9%	5%	60	46%	47%	49%
NSA1 R29	Residential (Single dwelling)	26.0	26.9	27.6	2%	28.2	5%	2%	60	45%	46%	47%
NSA1 R30	Residential (Single dwelling)	26.0	27.0	27.8	3%	28.6	6%	3%	60	45%	46%	48%
NSA1 R31	Residential (Single dwelling)	26.0	27.4	28.4	4%	29.4	7%	3%	60	46%	47%	49%
NSA1_R32	Residential (Single dwelling)	26.0	27.3	28.2	3%	29.1	7%	3%	60	45%	47%	49%
NSA1_R33	Residential (Single dwelling)	26.0	27.4	28.5	4%	29.5	7%	3%	60	46%	47%	49%
NSA1 R34	Residential (Single dwelling)	26.0	27.3	28.2	3%	29.6	8%	5%	60	46%	47%	49%
NSA1 R35	Residential (Single dwelling)	26.0	27.4	28.3	4%	29.8	9%	5%	60	46%	47%	50%
NSA1 R36	Residential (Single dwelling)	26.0	27.4	28.4	4%	29.8	9%	5%	60	46%	47%	50%
NSA1 R37	Residential (Single dwelling)	26.0	27.6	28.7	4%	29.7	8%	4%	60	46%	48%	50%
NSA1 R38	Residential (Single dwelling)	26.0	27.7	28.9	4%	30.0	8%	4%	60	46%	48%	50%
NSA1 R39	Residential (Single dwelling)	26.0	27.4	28.4	4%	29.8	9%	5%	60	46%	47%	50%
NSA1 R40	Residential (Single dwelling)	26.0	27.4	28.5	4%	30.0	9%	5%	60	46%	47%	50%
NSA1_R41	Residential (Single dwelling)	26.0	27.5	28.6	4%	29.6	8%	4%	60	46%	48%	49%
 NSA1_R42	Residential (Single dwelling)	26.0	27.4	28.3	4%	29.7	9%	5%	60	46%	47%	50%
NSA1_R43	Residential (Single dwelling)	26.0	27.4	28.5	4%	30.0	9%	5%	60	46%	47%	50%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	Annual Average Concentration (µg/m³)	Annual Average Concentration (µg/m³)	% change from Existing Conditions	Annual Average Concentration (µg/m³)	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R44	Residential (Single dwelling)	26.0	27.2	28.2	3%	29.0	7%	3%	60	45%	47%	48%
NSA2 R01	Residential (Single dwelling)	26.0	27.5	28.6	4%	30.3	10%	6%	60	46%	48%	50%
NSA2 R02	Residential (Single dwelling)	26.0	27.5	28.5	4%	30.1	9%	5%	60	46%	48%	50%
NSA2 R03	Residential (Single dwelling)	26.0	27.6	28.7	4%	30.4	10%	6%	60	46%	48%	51%
NSA2_R03	Residential (Single dwelling)	26.0	27.5	28.6	4%	29.6	8%	3%	60	46%	48%	49%
NSA2 R05	Residential (Single dwelling)	26.0	27.8	29.0	5%	30.1	9%	4%	60	46%	48%	50%
NSA2 R06	Residential (Single dwelling)	26.0	27.6	28.7	4%	29.7	8%	3%	60	46%	48%	50%
NSA2 R07	Residential (Townhouse)	26.0	27.5	28.6	4%	30.3	10%	6%	60	46%	48%	51%
NSA2 R08	Residential (Townhouse)	26.0	27.4	28.4	4%	29.9	9%	5%	60	46%	47%	50%
NSA2 R09	Residential (Townhouse)	26.0	27.5	28.6	4%	30.4	10%	6%	60	46%	48%	51%
NSA2 R10	Residential (Single dwelling)	26.0	27.8	29.1	5%	30.2	9%	4%	60	46%	49%	50%
NSA2_R10	Residential (Single dwelling)	26.0	27.9	29.3	5%	30.4	9%	4%	60	47%	49%	51%
NSA2 R12	Residential (Single dwelling)	26.0	27.9	29.4	5%	30.4	9%	4%	60	47%	49%	51%
NSA2 R13	Residential (Townhouse)	26.0	27.5	28.5	4%	30.1	10%	6%	60	46%	48%	50%
NSA2 R14	Residential (Townhouse)	26.0	27.6	28.7	4%	30.5	10%	6%	60	46%	48%	51%
NSA2 R15	Residential (Single dwelling)	26.0	27.7	28.9	4%	30.7	11%	6%	60	46%	48%	51%
NSA2 R16	Residential (Single dwelling)	26.0	27.9	29.1	5%	31.1	12%	7%	60	46%	49%	52%
NSA2 R17	Residential (Single dwelling)	26.0	27.9	29.1	4%	31.1	11%	7%	60	47%	49%	52%
NSA2 R18	Residential (Single dwelling)	26.0	27.6	28.6	4%	30.0	9%	5%	60	46%	48%	50%
NSA2 R19	Residential (Single dwelling)	26.0	27.9	29.2	5%	30.1	8%	3%	60	46%	49%	50%
NSA2 R20	Residential (Single dwelling)	26.0	28.1	29.5	5%	30.3	8%	3%	60	47%	49%	50%
NSA2 R21	Residential (Townhouse)	26.0	28.8	30.2	5%	30.6	6%	2%	60	48%	50%	51%
NSA2 R22	Residential (Single dwelling)	26.0	27.8	28.7	3%	29.1	5%	1%	60	46%	48%	49%
NSA2 R23	Residential (Single dwelling)	26.0	27.9	29.0	4%	29.5	6%	2%	60	47%	48%	49%
NSA2 R24	Residential (Single dwelling)	26.0	26.9	27.5	2%	28.2	5%	3%	60	45%	46%	47%
NSA2 R25	Residential (Townhouse)	26.0	26.6	27.0	2%	27.4	3%	1%	60	44%	45%	46%
NSA2 R26	Residential (Townhouse)	26.0	26.5	26.8	1%	27.1	3%	1%	60	44%	45%	45%
NSA2 R27	Residential (Single dwelling)	26.0	26.5	27.0	2%	27.6	4%	2%	60	44%	45%	46%
NSA2 R28	Residential (Single dwelling)	26.0	26.6	27.2	2%	28.0	5%	3%	60	44%	45%	47%
NSA2 R29	Residential (Single dwelling)	26.0	26.7	27.4	2%	28.0	5%	2%	60	45%	46%	47%
NSA2 R30	Residential (Single dwelling)	26.0	26.8	27.5	3%	28.0	5%	2%	60	45%	46%	47%
NSA2 R31	Residential (Single dwelling)	26.0	26.7	27.4	2%	27.9	4%	2%	60	45%	46%	46%
NSA2 R32	Residential (Single dwelling)	26.0	26.6	27.1	2%	27.6	4%	2%	60	44%	45%	46%
NSA2 R33	Residential (Single dwelling)	26.0	26.5	27.0	2%	27.4	3%	1%	60	44%	45%	46%
NSA2 R34	Residential (Single dwelling)	26.0	26.5	27.0	2%	27.4	3%	1%	60	44%	45%	46%
NSA3 R01	Residential (Single dwelling)	26.0	26.7	27.3	2%	27.7	4%	2%	60	44%	45%	46%
NSA3 R02	Residential (Single dwelling)	26.0	26.6	27.2	2%	27.7	4%	2%	60	44%	45%	46%
NSA3_R03	Residential (Single dwelling)	26.0	26.7	27.4	3%	27.9	4%	2%	60	45%	46%	47%
NSA3 R04	Residential (Single dwelling)	26.0	26.9	27.8	3%	28.3	5%	2%	60	45%	46%	47%
NSA3 R05	Residential (Single dwelling)	26.0	26.8	27.4	2%	27.8	4%	1%	60	45%	46%	46%
NSA3 R06	Residential (Single dwelling)	26.0	26.4	26.7	1%	27.0	2%	1%	60	44%	44%	45%
NSA4 R01	Residential (Single dwelling)	26.0	26.8	27.7	3%	28.2	5%	2%	60	45%	46%	47%
NSA4 R02	Residential (Single dwelling)	26.0	26.5	27.1	2%	27.7	4%	2%	60	44%	45%	46%
NSA4 R03	Residential (Single dwelling)	26.0	26.9	27.8	3%	28.7	7%	3%	60	45%	46%	48%
NSA4 R04	Residential (Single dwelling)	26.0	26.6	27.2	2%	27.8	4%	2%	60	44%	45%	46%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA4 DOS	D : 1 (: 1/0: 1 1 1 1 1 )	(µg/m³) 26.0	(μg/m³) 26.9	(μg/m³) 27.7	3%	(μg/m³) 28.0	4%	1%	60	45%	46%	47%
NSA4_R05	Residential (Single dwelling)	26.0	26.7	27.5	3%	28.0	5%	2%	60	45%	46%	47%
NSA5_R01	Residential (Single dwelling)	26.0	26.7	27.2	2%	27.7	4%	2%	60	45%	45%	46%
NSA5_R02	Residential (Single dwelling)	26.0	27.2	28.5	5%	29.1	7%	2%	60	45%	47%	48%
NSA6_R01	Residential (Single dwelling)	26.0	27.4	28.9	5%	31.8	16%	10%	60	46%	48%	53%
NSA6_R02	Residential (Single dwelling)	26.0	27.4	28.8	5%	36.1	32%	25%	60	46%	48%	60%
NSA6_R03	Residential (Single dwelling)	26.0	26.8	27.7	3%	28.6	7%	3%	60	45%	46%	48%
NSA6_R04	Residential (Single dwelling)		27.3	28.6	5%	30.4	12%	6%	60	45%	48%	51%
NSA6_R05	Residential (Single dwelling)	26.0 26.0	27.2	28.4	5%	28.9	7%	2%	60	45%	47%	48%
NSA6_R06	Residential (Single dwelling)	26.0	26.9	27.7	3%	28.0	4%	1%	60	45%	46%	47%
NSA7_R01	Residential (Single dwelling)	26.0	26.8	27.4	2%	27.7	4%		60	45%	46%	46%
NSA8_R01	Residential (Single dwelling)	26.0	28.3	30.0	6%		13%	1% 7%		47%	50%	53%
NSA8_R02	Residential (Single dwelling)	26.0	28.5	30.0	7%	31.9 35.7	25%	17%	60 60	47%	50%	53%
NSA8_R03	Residential (Single dwelling)	26.0	27.4	28.5	4%	29.6	8%	4%	60	46%	48%	49%
NSA8_R04	Residential (Single dwelling)	26.0	27.2	28.1	4%	29.6	7%	3%	60	45%	47%	48%
NSA8_R05	Residential (Single dwelling)	26.0	27.2	28.1	4%	29.1	7%	3%	60	45%	47%	48%
NSA8_R06	Residential (Single dwelling)	26.0	27.0	27.8	3%	28.6	6%	3%	60	45%	46%	48%
NSA8_R07	Residential (Single dwelling)	26.0	26.9	27.6	3%	28.9	8%	5%	60	45%	46%	48%
NSA8_R08	Residential (Single dwelling)	-		27.4		28.8	8%	5%	60	45%	46%	48%
NSA8_R09	Residential (Single dwelling)	26.0 26.0	26.8 26.8	27.4	2% 3%	31.1	16%	13%	60	45%	46%	52%
NSA8_R10	Residential (Single dwelling)							-		-		-
NSA8_R11	Residential (Single dwelling)	26.0	26.9 26.9	27.6 27.6	3%	30.4 28.8	13%	10%	60 60	45% 45%	46% 46%	51% 48%
NSA8_R12	Residential (Single dwelling)	26.0		27.4	3%		7% 4%	4% 2%	60	45%	46%	47%
NSA8_R13	Residential (Single dwelling)	26.0	26.7	27.3	2%	27.9 27.9				44%	45%	47%
NSA8_R14	Residential (Single dwelling)	26.0 26.0	26.7 26.8	27.4	2% 2%	28.8	5% 7%	2% 5%	60 60	45%	45%	48%
NSA8_R15	Residential (Single dwelling)	26.0	26.8	27.5	2%	28.6	7%	4%	60	45%	46%	48%
NSA8_R16	Residential (Single dwelling)	26.0	26.8	27.4		28.4	6%			45%	46%	47%
NSA8_R17	Residential (Townhouse)	+		27.4	2% 2%	28.3	6%	4% 3%	60 60	45%	46%	47%
NSA9_R01	Residential (Single dwelling)	26.0 26.0	26.8 26.7	27.4	2%	28.1	5%	3%	60	45%	46%	47%
NSA9_R02	Residential (Single dwelling)	26.0	26.8	27.5	3%	28.6	7%	4%	60	45%	46%	48%
NSA9_R03	Residential (Single dwelling)	26.0	26.8	27.5	3%	28.6	7%	4%	60	45%	46%	48%
NSA9_R04	Residential (Single dwelling)	26.0	26.7	27.3	2%	28.0	5%	3%	60	45%	45%	47%
NSA9_R05	Residential (Single dwelling)	26.0	26.8	27.5	3%	28.4	6%	3%	60	45%	46%	47%
NSA9_R06	Residential (Single dwelling)	26.0	26.7	27.4	2%	28.4 27.9	4%	2%	60	45%	46%	47%
NSA9_R07 NSA9_R08	Residential (Single dwelling) Residential (Single dwelling)	26.0	26.8	27.5	2%	28.1	5%	2%	60	45%	46%	47%
_	, , ,	26.0	26.9	27.6	3%	28.3	5%	2%	60	45%	46%	47%
NSA9_R09	Residential (Single dwelling)	26.0	27.0	27.7	3%	28.5	6%	3%	60	45%	46%	48%
NSA9_R10	Residential (Single dwelling)	26.0	26.9	27.7	3%	28.7	7%	4%	60	45%	46%	48%
NSA9_R11	Residential (Single dwelling)	26.0	26.9	27.6	3%	28.6	6%	4%	60	45%	46%	48%
NSA9_R13	Residential (Single dwelling)	+		27.7	<b>+</b>		<del></del>		60			48%
NSA9_R14	Residential (Single dwelling)	26.0	26.9		3%	28.4	6%	3%		45%	46%	50%
NSA9_R15	Residential (Single dwelling)	26.0	28.1	29.8	6%	30.1	7% 6%	1%	60	47%	50%	48%
NSA10_R01	Residential (Single dwelling)	26.0	27.0	27.8	3%	28.6	6%	3%	60	45%	46%	
<del>-</del>	Residential (Single dwelling)	26.0	27.6	28.5	3%	30.7	11%	8%	60	46%	48%	51%
NSA10_R03	Residential (Single dwelling)	26.0	27.2	28.0	3%	30.2	11%	8%	60	45%	47%	50%
NSA10_R04	Residential (Single dwelling)	26.0	27.0	27.7	3%	30.0	11%	8%	60	45%	46%	50%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA40 DOS	D : 1 : 1 (0: 1 - 1 - 11: )	(μg/m³) 26.0	(μg/m³) 27.0	(µg/m³) 27.6	3%	(μg/m³) 29.8	10%	8%	60	45%	46%	50%
NSA10_R05	Residential (Single dwelling)			27.6		29.8		8%	60			50%
NSA10_R06	Residential (Single dwelling)	26.0	26.9 26.9	27.6	3% 3%	30.0	11% 11%	9%		45% 45%	46% 46%	50%
NSA10_R07	Residential (Single dwelling)	26.0 26.0	26.9	27.5	2%	29.8	11%	8%	60 60	45%	46%	50%
NSA10_R08	Residential (Single dwelling)	26.0	26.9	27.6		30.0	12%	9%	60	45%	46%	50%
NSA10_R09	Residential (Single dwelling)	26.0	26.9	27.5	2% 2%	28.6	6%	4%	60	45%	46%	48%
NSA10_R10	Residential (Single dwelling)	26.0	26.9	27.5	2%	28.4	6%	3%	60	45%	46%	47%
NSA10_R11	Residential (Single dwelling)	26.0	26.9	27.6	2%	29.3	9%	6%	60	45%	46%	49%
NSA10_R12	Residential (Single dwelling)	26.0	26.9	27.5	2%	28.8	7%	5%	60	45%	46%	48%
NSA10_R13	Residential (Single dwelling)	26.0	28.6	30.4	6%	30.5	7%	0%	60	48%	51%	51%
NSA10_R14	Residential (Single dwelling)	26.0	28.1	29.5	5%	29.7	6%	0%	60	47%	49%	49%
NSA10_R15	Residential (Single dwelling)	26.0	30.7	34.3	12%	34.6	13%	1%	60	51%	49% 57%	58%
NSA10_R16	Residential (Single dwelling)	26.0	27.8	29.0	4%	30.3	9%	5%	60	46%	48%	51%
NSA11_R01	Residential (Single dwelling)	26.0	27.6	28.4	3%	28.9	5%	2%	60	46%	47%	48%
NSA12_R01 NSA12_R02	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.5	28.3	3%	28.8	5%	2%	60	46%	47%	48%
<del>-</del>	, , ,	26.0	27.5	28.4	3%	28.9	5%	2%	60	46%	47%	48%
NSA12_R03 NSA12_R04	Residential (Single dwelling)	26.0	27.1	27.8	2%	28.3	4%	2%	60	45%	46%	47%
NSA12_R04 NSA12_R05	Residential (Single dwelling)	26.0	27.1	27.7	2%	28.2	4%	2%	60	45%	46%	47%
<del>-</del>	Residential (Single dwelling)	26.0	27.1	27.7	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R06	Residential (Single dwelling)	26.0	27.1	27.7	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R07 NSA12_R08	Residential (Single dwelling)	26.0	28.9	30.6	6%	32.5	12%	6%	60	48%	51%	54%
_	Residential (Single dwelling)	26.0	28.0	29.2	4%	30.2	8%	4%	60	47%	49%	50%
NSA12_R09	Residential (Single dwelling)	26.0	28.7	30.2	6%	31.9	11%	6%	60	48%	50%	53%
NSA12_R10 NSA12_R11	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.5	28.3	3%	28.8	5%	2%	60	46%	47%	48%
NSA12_R11	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.5	28.3	3%	28.8	5%	2%	60	46%	47%	48%
NSA12_R12 NSA12_R13	Residential (Single dwelling)	26.0	27.4	28.2	3%	28.7	5%	2%	60	46%	47%	48%
NSA12_R13 NSA12_R14	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.4	28.2	3%	28.7	5%	2%	60	46%	47%	48%
NSA12_R14 NSA12_R15	Residential (Single dwelling)	26.0	27.4	28.2	3%	28.7	5%	2%	60	46%	47%	48%
NSA12_R15	Residential (Single dwelling)	26.0	28.4	29.8	5%	31.2	10%	5%	60	47%	50%	52%
NSA12_R10	Residential (Single dwelling)	26.0	27.4	28.1	3%	28.7	5%	2%	60	46%	47%	48%
NSA12_R17 NSA12_R18	Residential (Single dwelling)	26.0	27.3	28.1	3%	28.7	5%	2%	60	46%	47%	48%
NSA12_R18	Residential (Townhouse)	26.0	28.0	29.2	4%	29.7	6%	2%	60	47%	49%	49%
NSA12_R19	Residential (Townhouse)	26.0	29.6	31.8	7%	32.5	10%	2%	60	49%	53%	54%
NSA12_R20	Residential (Townhouse)	26.0	29.1	31.0	6%	31.6	8%	2%	60	49%	52%	53%
NSA12 R22	Residential (Townhouse)	26.0	28.1	29.3	4%	29.8	6%	2%	60	47%	49%	50%
NSA12 R23	Residential (Townhouse)	26.0	27.2	27.8	3%	28.2	4%	1%	60	45%	46%	47%
NSA12 R24	Residential (Townhouse)	26.0	27.4	28.3	3%	28.7	5%	1%	60	46%	47%	48%
NSA12 R25	Residential (Single dwelling)	26.0	27.8	28.9	4%	29.4	6%	2%	60	46%	48%	49%
NSA12 R26	Residential (Single dwelling)	26.0	27.6	28.6	3%	29.0	5%	1%	60	46%	48%	48%
NSA12 R27	Residential (Single dwelling)	26.0	27.5	28.5	3%	28.9	5%	1%	60	46%	47%	48%
NSA12 R28	Residential (Single dwelling)	26.0	27.5	28.5	3%	28.9	5%	1%	60	46%	47%	48%
NSA12 R29	Residential (Single dwelling)	26.0	27.9	29.0	4%	29.5	6%	2%	60	46%	48%	49%
NSA12 R30	Residential (Single dwelling)	26.0	28.5	30.0	5%	30.5	7%	2%	60	47%	50%	51%
NSA12 R31	Residential (Single dwelling)	26.0	29.4	31.5	7%	32.1	9%	2%	60	49%	52%	53%
NSA12 R32	Residential (Single dwelling)	26.0	29.8	32.1	8%	32.8	10%	2%	60	50%	54%	55%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA12 R33	Desidential (Single dyselling)	(μg/m³) 26.0	(μg/m³) 27.2	(μg/m³) 27.9	3%	(μg/m³) 28.3	4%	1%	60	45%	47%	47%
<del>-</del>	Residential (Single dwelling)	26.0	27.0	27.6	2%	28.1	4%	2%	60	45%	46%	47%
NSA12_R34 NSA12_R35	Residential (Townhouse)	26.0	27.0	27.6	2%	28.1	4%	2%	60	45%	46%	47%
NSA12_R35 NSA12_R36	Residential (Townhouse)	26.0	27.0	27.6	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R30 NSA12_R37	Residential (Townhouse)  Residential (Townhouse)	26.0	27.0	27.6	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R37 NSA12_R38	Residential (Townhouse)	26.0	27.0	27.6	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R30 NSA12_R39	Residential (Townhouse)	26.0	27.0	27.7	2%	28.3	5%	2%	60	45%	46%	47%
NSA12_R39 NSA12_R40	Residential (Townhouse)  Residential (Single dwelling)	26.0	26.9	27.4	2%	27.8	4%	2%	60	45%	46%	46%
NSA12_R40 NSA12_R41	Residential (Single dwelling)	26.0	27.1	27.7	2%	28.3	5%	2%	60	45%	46%	47%
NSA12_R41 NSA12_R42	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.1	27.7	2%	28.4	5%	2%	60	45%	46%	47%
NSA12_R42 NSA12_R43	Residential (Single dwelling)	26.0	27.1	27.7	2%	28.3	5%	2%	60	45%	46%	47%
NSA12_R43 NSA12_R44	Residential (Single dwelling)	26.0	27.0	27.7	2%	28.3	5%	2%	60	45%	46%	47%
NSA12_R44 NSA12_R45	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.0	27.7	2%	28.2	4%	2%	60	45%	46%	47%
_	, , ,	26.0	27.0	27.6	2%	28.1	4%	2%	60	45%	46%	47%
NSA12_R46 NSA12_R47	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.0	27.7	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R47 NSA12_R48	Residential (Single dwelling)  Residential (Single dwelling)	26.0	27.0	27.7	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R48	Residential (Townhouse)	26.0	27.0	27.7	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R49 NSA12_R50	Residential (Townhouse)  Residential (Single dwelling)	26.0	29.7	32.1	8%	32.7	10%	2%	60	50%	53%	55%
NSA12_R50 NSA12_R51	Residential (Single dwelling)  Residential (Single dwelling)	26.0	29.8	32.2	8%	32.9	10%	2%	60	50%	54%	55%
NSA12_R51	Residential (Single dwelling)	26.0	29.5	31.7	7%	32.3	10%	2%	60	49%	53%	54%
NSA12_R52 NSA12_R53	Residential (Single dwelling)	26.0	29.9	32.4	8%	33.1	11%	2%	60	50%	54%	55%
NSA12_R53	Residential (Single dwelling)	26.0	29.9	32.3	8%	33.1	11%	2%	60	50%	54%	55%
NSA12_R55	Residential (Single dwelling)	26.0	29.6	31.8	8%	32.6	10%	2%	60	49%	53%	54%
NSA12_R56	Residential (Single dwelling)	26.0	29.9	32.3	8%	33.1	11%	2%	60	50%	54%	55%
NSA12_R50	Residential (Single dwelling)	26.0	30.0	32.5	8%	33.3	11%	2%	60	50%	54%	55%
NSA12 R58	Residential (Single dwelling)	26.0	30.1	32.6	8%	33.3	11%	2%	60	50%	54%	56%
NSA12_R59	Residential (Single dwelling)	26.0	30.1	32.7	8%	33.3	11%	2%	60	50%	54%	56%
NSA12_R59 NSA12_R60	Residential (Single dwelling)	26.0	30.1	32.7	8%	33.3	11%	2%	60	50%	54%	56%
NSA12_R60	Residential (Single dwelling)	26.0	29.4	31.3	7%	31.8	8%	2%	60	49%	52%	53%
NSA12_R61	Residential (Single dwelling)	26.0	27.1	27.7	2%	28.3	4%	2%	60	45%	46%	47%
NSA12_R62 NSA12_R63	Residential (Single dwelling)	26.0	27.0	27.7	2%	28.2	4%	2%	60	45%	46%	47%
NSA12_R64	Residential (Single dwelling)	26.0	27.1	27.7	2%	28.3	5%	2%	60	45%	46%	47%
NSA12_R65	Residential (Single dwelling)	26.0	27.1	27.7	2%	28.3	5%	2%	60	45%	46%	47%

Table B-3 Three-year average 98th Percentile 24-hour PM<sub>2.5</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	98th Percentile 24-hr Concentration	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	98th Percentile 24- hr Concentration	% change from	% change from No- Build	CAAQS (µg/m³)	Existing Conditions	Future No-Build	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Existing Conditions	(µg/m³)	Exisitng Conditions	Bullu		(2018)	(2041)	
NSA1_R01	Residential (Single dwelling)	13.9	14.4	14.5	1%	14.5	1%	0%	27	53%	54%	54%
NSA1_R02	Residential (Single dwelling)	13.9	14.4	14.5	1%	14.7	2%	2%	27	53%	54%	54%
NSA1_R03	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.6	2%	1%	27	53%	53%	54%
NSA1_R04	Residential (Single dwelling)	13.9	14.4	14.5	1%	14.8	3%	2%	27	53%	54%	55%
NSA1_R05	Residential (Condominium)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1_R06	Residential (Townhouse)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA1_R07	Residential (Townhouse)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA1_R08	Residential (Townhouse)	13.9	14.3	14.4	1%	14.5	1%	0%	27	53%	53%	54%
NSA1_R09	Residential (Townhouse)	13.9	14.3	14.4	1%	14.5	1%	0%	27	53%	53%	54%
NSA1_R10	Residential (Townhouse)	13.9	14.3	14.5	1%	14.5	1%	0%	27	53%	54%	54%
NSA1_R11	Residential (Townhouse)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA1_R12	Residential (Townhouse)	13.9	14.2	14.3	1%	14.3	1%	0%	27	53%	53%	53%
NSA1_R13	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.4	1%	0%	27	53%	53%	53%
NSA1_R14	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.3	1%	0%	27	53%	53%	53%
NSA1_R15	Residential (Townhouse)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA1_R16	Residential (Townhouse)	13.9	14.2	14.3	1%	14.4	1%	0%	27	53%	53%	53%
NSA1_R17	Residential (Townhouse)	13.9	14.1	14.2	0%	14.2	1%	0%	27	52%	53%	53%
NSA1_R18	Residential (Townhouse)	13.9	14.3	14.4	1%	14.7	2%	2%	27	53%	53%	54%
NSA1_R19	Residential (Townhouse)	13.9	14.4	14.5	1%	14.7	2%	2%	27	53%	54%	55%
NSA1_R20	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.3	1%	1%	27	52%	53%	53%
NSA1_R21	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1_R22	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.4	1%	1%	27	53%	53%	53%
NSA1_R23	Residential (Townhouse)	13.9	14.2	14.2	0%	14.4	1%	1%	27	53%	53%	53%
NSA1_R24	Residential (Townhouse)	13.9	14.1	14.2	0%	14.3	1%	1%	27	52%	53%	53%
NSA1_R25	Residential (Townhouse)	13.9	14.1	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA1_R26	Residential (Townhouse)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA1_R27	Residential (Townhouse)	13.9	14.1	14.2	0%	14.3	1%	1%	27	52%	52%	53%
NSA1_R28	Residential (Townhouse)	13.9	14.2	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1_R29	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA1_R30	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	1%	0%	27	52%	52%	52%
NSA1_R31	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.3	1%	0%	27	52%	53%	53%
NSA1_R32	Residential (Single dwelling)	13.9	14.1	14.2	0%	14.2	1%	0%	27	52%	53%	53%
NSA1_R33	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.3	1%	0%	27	52%	53%	53%
NSA1 R34	Residential (Single dwelling)	13.9	14.2	14.3	0%	14.5	1%	1%	27	53%	53%	54%
NSA1_R35	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1_R36	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1_R37	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.3	1%	0%	27	53%	53%	53%
NSA1 R38	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.4	1%	0%	27	53%	53%	53%
NSA1 R39	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1 R40	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1_R41	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.3	1%	0%	27	53%	53%	53%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	98th Percentile 24-hr Concentration	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	% change from No- Build	CAAQS (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
11011 510		(µg/m³)	(μg/m³)	(µg/m³)		(µg/m³)		4.07	0.7	500/	500/	E40/
NSA1_R42	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1_R43	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA1_R44	Residential (Single dwelling)	13.9	14.1	14.2	0%	14.2	1%	0%	27	52%	53%	53%
NSA2_R01	Residential (Single dwelling)	13.9	14.3	14.4	0%	14.6	2%	1%	27	53%	53%	54%
NSA2_R02	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA2_R03	Residential (Single dwelling)	13.9	14.3	14.4	0%	14.6	2%	1%	27	53%	53%	54%
NSA2_R04	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.3	1%	0%	27	53%	53%	53%
NSA2_R05	Residential (Single dwelling)	13.9	14.3	14.3	1%	14.4	1%	0%	27	53%	53%	53%
NSA2_R06	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.3	1%	0%	27	53%	53%	53%
NSA2_R07	Residential (Townhouse)	13.9	14.3	14.4	0%	14.6	2%	1%	27	53%	53%	54%
NSA2_R08	Residential (Townhouse)	13.9	14.3	14.3	0%	14.5	2%	1%	27	53%	53%	54%
NSA2_R09	Residential (Townhouse)	13.9	14.3	14.4	0%	14.6	2%	1%	27	53%	53%	54%
NSA2_R10	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA2_R11	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA2_R12	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA2_R13	Residential (Townhouse)	13.9	14.3	14.4	0%	14.5	2%	1%	27	53%	53%	54%
NSA2_R14	Residential (Townhouse)	13.9	14.3	14.4	1%	14.6	2%	1%	27	53%	53%	54%
NSA2_R15	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.6	2%	1%	27	53%	53%	54%
NSA2_R16	Residential (Single dwelling)	13.9	14.4	14.5	1%	14.7	2%	1%	27	53%	54%	54%
NSA2_R17	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.6	2%	1%	27	53%	53%	54%
NSA2_R18	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.5	1%	1%	27	53%	53%	54%
NSA2_R19	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.4	1%	0%	27	53%	53%	53%
NSA2_R20	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA2_R21	Residential (Townhouse)	13.9	14.5	14.6	1%	14.5	0%	-1%	27	54%	54%	54%
NSA2_R22	Residential (Single dwelling)	13.9	14.2	14.3	0%	14.3	0%	0%	27	53%	53%	53%
NSA2_R23	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.3	1%	0%	27	53%	53%	53%
NSA2_R24	Residential (Single dwelling)	13.9	14.1	14.2	0%	14.2	1%	0%	27	52%	52%	53%
NSA2_R25	Residential (Townhouse)	13.9	14.0	14.0	0%	14.0	0%	0%	27	52%	52%	52%
NSA2_R26	Residential (Townhouse)	13.9	13.9	14.0	0%	14.0	0%	0%	27	52%	52%	52%
NSA2_R27	Residential (Single dwelling)	13.9	13.9	14.0	0%	14.0	1%	0%	27	52%	52%	52%
NSA2_R28	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.1	1%	1%	27	52%	52%	52%
NSA2_R29	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA2_R30	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA2_R31	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.1	1%	0%	27	52%	52%	52%
NSA2_R32	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.0	1%	0%	27	52%	52%	52%
NSA2_R33	Residential (Single dwelling)	13.9	13.9	14.0	0%	14.0	0%	0%	27	52%	52%	52%
NSA2_R34	Residential (Single dwelling)	13.9	13.9	14.0	0%	14.0	0%	0%	27	52%	52%	52%
NSA3_R01	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.1	1%	0%	27	52%	52%	52%
NSA3_R02	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.0	1%	0%	27	52%	52%	52%
NSA3_R03	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA3_R04	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	1%	0%	27	52%	52%	52%
NSA3_R05	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA3_R06	Residential (Single dwelling)	13.9	13.9	14.0	0%	14.0	1%	0%	27	52%	52%	52%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	98th Percentile 24-hr Concentration	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		(µg/m³)				· · · · · · · · · · · · · · · · · · ·		
NSA4_R01	Residential (Single dwelling)	13.9	14.0	14.1	1%	14.2	1%	0%	27	52%	52%	52%
NSA4_R02	Residential (Single dwelling)	13.9	14.0	14.1	1%	14.1	1%	0%	27	52%	52%	52%
NSA4_R03	Residential (Single dwelling)	13.9	14.0	14.2	1%	14.2	1%	0%	27	52%	52%	53%
NSA4_R04	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.1	1%	0%	27	52%	52%	52%
NSA4_R05	Residential (Single dwelling)	13.9	14.1	14.3	1%	14.2	1%	0%	27	52%	53%	53%
NSA5_R01	Residential (Single dwelling)	13.9	14.1	14.2	1%	14.2	1%	0%	27	52%	52%	53%
NSA5_R02	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.1	1%	0%	27	52%	52%	52%
NSA6_R01	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.4	1%	0%	27	53%	53%	53%
NSA6_R02	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.6	3%	2%	27	53%	53%	54%
NSA6_R03	Residential (Single dwelling)	13.9	14.2	14.3	1%	15.1	6%	5%	27	53%	53%	56%
NSA6_R04	Residential (Single dwelling)	13.9	14.0	14.1	1%	14.2	1%	1%	27	52%	52%	53%
NSA6_R05	Residential (Single dwelling)	13.9	14.1	14.3	1%	14.4	2%	1%	27	52%	53%	53%
NSA6_R06	Residential (Single dwelling)	13.9	14.2	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA7_R01	Residential (Single dwelling)	13.9	14.1	14.2	1%	14.2	1%	0%	27	52%	53%	53%
NSA8_R01	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	0%	0%	27	52%	52%	52%
NSA8_R02	Residential (Single dwelling)	13.9	14.4	14.5	1%	14.7	2%	1%	27	53%	54%	55%
NSA8_R03	Residential (Single dwelling)	13.9	14.5	14.6	1%	15.2	5%	4%	27	54%	54%	56%
NSA8_R04	Residential (Single dwelling)	13.9	14.2	14.3	1%	14.4	1%	1%	27	53%	53%	53%
NSA8_R05	Residential (Single dwelling)	13.9	14.2	14.2	1%	14.3	1%	1%	27	52%	53%	53%
NSA8_R06	Residential (Single dwelling)	13.9	14.1	14.2	1%	14.3	1%	1%	27	52%	53%	53%
NSA8_R07	Residential (Single dwelling)	13.9	14.1	14.2	0%	14.3	1%	1%	27	52%	52%	53%
NSA8_R08	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.3	1%	1%	27	52%	52%	53%
NSA8_R09	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	2%	1%	27	52%	52%	53%
NSA8_R10	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.5	3%	3%	27	52%	52%	54%
NSA8_R11	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.4	3%	2%	27	52%	52%	53%
NSA8_R12	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.3	1%	1%	27	52%	52%	53%
NSA8_R13	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA8_R14	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.1	1%	1%	27	52%	52%	52%
NSA8_R15	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA8_R16	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA8_R17	Residential (Townhouse)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA9_R01	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA9_R02	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	1%	27	52%	52%	52%
NSA9_R03	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA9_R04	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA9_R05	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.1	1%	1%	27	52%	52%	52%
NSA9_R06	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA9_R07	Residential (Single dwelling)	13.9	14.0	14.0	0%	14.1	1%	0%	27	52%	52%	52%
NSA9_R08	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA9_R09	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA9_R10	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA9_R11	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA9_R13	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-E	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	98th Percentile 24-hr Concentration	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	% change from No- Build	CAAQS (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		(µg/m³)		40/	0.7	500/	500/	500/
NSA9_R14	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA9_R15	Residential (Single dwelling)	13.9	14.3	14.4	1%	14.4	1%	0%	27	53%	53%	53%
NSA10_R01	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	1%	0%	27	52%	52%	52%
NSA10_R02	Residential (Single dwelling)	13.9	14.1	14.2	0%	14.4	2%	1%	27	52%	53%	53%
NSA10_R03	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.4	2%	2%	27	52%	52%	53%
NSA10_R04	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.3	2%	2%	27	52%	52%	53%
NSA10_R05	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.3	2%	1%	27	52%	52%	53%
NSA10_R06	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.3	2%	1%	27	52%	52%	53%
NSA10_R07	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.3	2%	2%	27	52%	52%	53%
NSA10_R08	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.3	2%	2%	27	52%	52%	53%
NSA10_R09	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.3	2%	2%	27	52%	52%	53%
NSA10_R10	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA10_R11	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	1%	0%	27	52%	52%	52%
NSA10_R12	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.3	2%	1%	27	52%	52%	53%
NSA10_R13	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.2	1%	1%	27	52%	52%	53%
NSA10_R14	Residential (Single dwelling)	13.9	14.8	14.93	1%	14.86	1%	0%	27	55%	55%	55%
NSA10_R15	Residential (Single dwelling)	13.9	14.6	14.71	1%	14.66	1%	0%	27	54%	54%	54%
NSA10_R16	Residential (Single dwelling)	13.9	15.4	15.64	2%	15.49	1%	-1%	27	57%	58%	57%
NSA11_R01	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.4	1%	0%	27	53%	53%	53%
NSA12_R01	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.3	0%	0%	27	53%	53%	53%
NSA12_R02	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.3	0%	0%	27	53%	53%	53%
NSA12_R03	Residential (Single dwelling)	13.9	14.3	14.3	0%	14.3	0%	0%	27	53%	53%	53%
NSA12_R04	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	53%	53%	53%
NSA12_R05	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	53%	53%	53%
NSA12_R06	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	53%	53%	53%
NSA12_R07	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	52%	53%	53%
NSA12_R08	Residential (Single dwelling)	13.9	14.8	14.8	0%	15.0	2%	1%	27	55%	55%	55%
NSA12_R09	Residential (Single dwelling)	13.9	14.5	14.5	0%	14.6	1%	1%	27	54%	54%	54%
NSA12_R10	Residential (Single dwelling)	13.9	14.7	14.7	0%	14.9	1%	1%	27	54%	55%	55%
NSA12_R11	Residential (Single dwelling)	13.9	14.2	14.3	0%	14.3	0%	0%	27	53%	53%	53%
NSA12_R12	Residential (Single dwelling)	13.9	14.2	14.3	0%	14.3	0%	0%	27	53%	53%	53%
NSA12_R13	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	53%	53%	53%
NSA12_R14	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	53%	53%	53%
NSA12_R15	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	53%	53%	53%
NSA12_R16	Residential (Single dwelling)	13.9	14.6	14.6	0%	14.8	1%	1%	27	54%	54%	55%
NSA12_R17	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	53%	53%	53%
NSA12_R18	Residential (Single dwelling)	13.9	14.2	14.2	0%	14.2	0%	0%	27	53%	53%	53%
NSA12_R19	Residential (Townhouse)	13.9	14.5	14.5	0%	14.5	0%	0%	27	54%	54%	54%
NSA12_R20	Residential (Townhouse)	13.9	15.0	15.1	1%	15.0	0%	0%	27	56%	56%	56%
NSA12_R21	Residential (Townhouse)	13.9	14.9	14.9	0%	14.9	0%	0%	27	55%	55%	55%
NSA12_R22	Residential (Townhouse)	13.9	14.5	14.6	0%	14.6	0%	0%	27	54%	54%	54%
NSA12_R23	Residential (Townhouse)	13.9	14.2	14.2	0%	14.3	0%	0%	27	53%	53%	53%
NSA12_R24	Residential (Townhouse)	13.9	14.3	14.3	0%	14.4	0%	0%	27	53%	53%	53%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	98th Percentile 24-hr Concentration	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	98th Percentile 24- hr Concentration	% change from Exisitng Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Existing Conditions	(µg/m³)	Existing Conditions	Build		(2010)	(2041)	
NSA12_R25	Residential (Single dwelling)	13.9	14.5	14.5	0%	14.5	0%	0%	27	54%	54%	54%
NSA12_R26	Residential (Single dwelling)	13.9	14.4	14.4	0%	14.4	0%	0%	27	53%	53%	53%
NSA12_R27	Residential (Single dwelling)	13.9	14.4	14.4	0%	14.4	0%	0%	27	53%	53%	53%
NSA12_R28	Residential (Single dwelling)	13.9	14.4	14.4	0%	14.4	0%	0%	27	53%	53%	53%
NSA12_R29	Residential (Single dwelling)	13.9	14.5	14.5	0%	14.5	0%	0%	27	54%	54%	54%
NSA12_R30	Residential (Single dwelling)	13.9	14.7	14.7	0%	14.7	0%	0%	27	54%	55%	54%
NSA12_R31	Residential (Single dwelling)	13.9	15.0	15.0	1%	15.0	0%	0%	27	55%	56%	56%
NSA12_R32	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.1	0%	0%	27	56%	56%	56%
NSA12_R33	Residential (Single dwelling)	13.9	14.2	14.3	0%	14.3	0%	0%	27	53%	53%	53%
NSA12_R34	Residential (Townhouse)	13.9	14.1	14.1	0%	14.1	0%	0%	27	52%	52%	52%
NSA12_R35	Residential (Townhouse)	13.9	14.1	14.1	0%	14.1	0%	0%	27	52%	52%	52%
NSA12_R36	Residential (Townhouse)	13.9	14.1	14.1	0%	14.1	0%	0%	27	52%	52%	52%
NSA12_R37	Residential (Townhouse)	13.9	14.1	14.1	0%	14.1	0%	0%	27	52%	52%	52%
NSA12_R38	Residential (Townhouse)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R39	Residential (Townhouse)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R40	Residential (Single dwelling)	13.9	14.0	14.1	0%	14.1	0%	0%	27	52%	52%	52%
NSA12_R41	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R42	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R43	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R44	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R45	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R46	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.1	0%	0%	27	52%	52%	52%
NSA12_R47	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R48	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R49	Residential (Townhouse)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R50	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.1	0%	0%	27	56%	56%	56%
NSA12_R51	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.1	0%	0%	27	56%	56%	56%
NSA12_R52	Residential (Single dwelling)	13.9	15.0	15.1	1%	15.0	0%	0%	27	55%	56%	56%
NSA12_R53	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.2	0%	0%	27	56%	56%	56%
NSA12_R54	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.2	0%	0%	27	56%	56%	56%
NSA12_R55	Residential (Single dwelling)	13.9	15.0	15.1	0%	15.1	0%	0%	27	56%	56%	56%
NSA12_R56	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.1	0%	0%	27	56%	56%	56%
NSA12_R57	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.2	0%	0%	27	56%	56%	56%
NSA12_R58	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.2	0%	0%	27	56%	56%	56%
NSA12_R59	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.2	0%	0%	27	56%	56%	56%
NSA12_R60	Residential (Single dwelling)	13.9	15.1	15.2	1%	15.2	0%	0%	27	56%	56%	56%
NSA12_R61	Residential (Single dwelling)	13.9	14.9	15.0	0%	14.9	0%	0%	27	55%	55%	55%
NSA12_R62	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R63	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R64	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	52%
NSA12_R65	Residential (Single dwelling)	13.9	14.1	14.1	0%	14.2	0%	0%	27	52%	52%	53%

Note:

Concentrations are based on the 98th percentile of 24-hour average concentrations, averaged over 3 consecutive years (2015, 2016 and 2017).

Table B-4 Three-year Annual Average PM<sub>2.5</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from	Annual Average Concentration	% change from	% change from No-	CAAQS (μg/m³)	Existing	Future No-Build	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Existing Conditions	μg/m³	Existing Conditions	Build		Conditions (2018)	(2041)	
NSA1_R01	Residential (Single dwelling)	7.8	7.99	7.99	0%	8.02	0.4%	0%	8.8	91%	91%	91%
NSA1_R02	Residential (Single dwelling)	7.8	7.99	7.99	0%	8.09	1.2%	1%	8.8	91%	91%	92%
NSA1_R03	Residential (Single dwelling)	7.8	7.97	7.97	0%	8.06	1.1%	1%	8.8	91%	91%	92%
NSA1_R04	Residential (Single dwelling)	7.8	8.00	8.00	0%	8.12	1.5%	1%	8.8	91%	91%	92%
NSA1_R05	Residential (Condominium)	7.8	7.95	7.95	0%	8.03	1.0%	1%	8.8	90%	90%	91%
NSA1_R06	Residential (Townhouse)	7.8	7.99	7.99	0%	8.05	0.7%	1%	8.8	91%	91%	91%
NSA1_R07	Residential (Townhouse)	7.8	8.00	8.00	0%	8.06	0.8%	1%	8.8	91%	91%	92%
NSA1_R08	Residential (Townhouse)	7.8	8.02	8.02	0%	8.08	0.8%	1%	8.8	91%	91%	92%
NSA1_R09	Residential (Townhouse)	7.8	8.02	8.02	0%	8.08	0.8%	1%	8.8	91%	91%	92%
NSA1_R10	Residential (Townhouse)	7.8	8.02	8.03	0%	8.09	0.8%	1%	8.8	91%	91%	92%
NSA1_R11	Residential (Townhouse)	7.8	8.00	8.01	0%	8.06	0.8%	1%	8.8	91%	91%	92%
NSA1_R12	Residential (Townhouse)	7.8	7.97	7.97	0%	8.03	0.7%	1%	8.8	91%	91%	91%
NSA1_R13	Residential (Single dwelling)	7.8	7.98	7.98	0%	8.04	0.7%	1%	8.8	91%	91%	91%
NSA1_R14	Residential (Single dwelling)	7.8	7.96	7.97	0%	8.01	0.7%	1%	8.8	90%	91%	91%
NSA1_R15	Residential (Townhouse)	7.8	8.00	8.00	0%	8.06	0.7%	1%	8.8	91%	91%	92%
NSA1_R16	Residential (Townhouse)	7.8	7.98	7.98	0%	8.03	0.7%	1%	8.8	91%	91%	91%
NSA1_R17	Residential (Townhouse)	7.8	7.93	7.94	0%	7.98	0.6%	1%	8.8	90%	90%	91%
NSA1_R18	Residential (Townhouse)	7.8	7.98	7.98	0%	8.09	1.4%	1%	8.8	91%	91%	92%
NSA1_R19	Residential (Townhouse)	7.8	7.99	7.99	0%	8.11	1.5%	1%	8.8	91%	91%	92%
NSA1_R20	Residential (Single dwelling)	7.8	7.92	7.92	0%	7.98	0.7%	1%	8.8	90%	90%	91%
NSA1_R21	Residential (Single dwelling)	7.8	7.95	7.95	0%	8.04	1.0%	1%	8.8	90%	90%	91%
NSA1_R22	Residential (Single dwelling)	7.8	7.93	7.93	0%	7.99	0.8%	1%	8.8	90%	90%	91%
NSA1_R23	Residential (Townhouse)	7.8	7.93	7.93	0%	7.99	0.8%	1%	8.8	90%	90%	91%
NSA1_R24	Residential (Townhouse)	7.8	7.91	7.91	0%	7.97	0.7%	1%	8.8	90%	90%	91%
NSA1_R25	Residential (Townhouse)	7.8	7.90	7.90	0%	7.94	0.6%	1%	8.8	90%	90%	90%
NSA1_R26	Residential (Townhouse)	7.8	7.88	7.88	0%	7.91	0.4%	0%	8.8	90%	90%	90%
NSA1_R27	Residential (Townhouse)	7.8	7.90	7.90	0%	7.95	0.6%	1%	8.8	90%	90%	90%
NSA1_R28	Residential (Townhouse)	7.8	7.95	7.95	0%	8.02	0.9%	1%	8.8	90%	90%	91%
NSA1_R29	Residential (Single dwelling)	7.8	7.90	7.90	0%	7.93	0.5%	0%	8.8	90%	90%	90%
NSA1_R30	Residential (Single dwelling)	7.8	7.91	7.91	0%	7.95	0.5%	0%	8.8	90%	90%	90%
NSA1_R31	Residential (Single dwelling)	7.8	7.95	7.95	0%	8.00	0.6%	1%	8.8	90%	90%	91%
NSA1_R32	Residential (Single dwelling)	7.8	7.94	7.94	0%	7.99	0.6%	1%	8.8	90%	90%	91%
NSA1_R33	Residential (Single dwelling)	7.8	7.95	7.96	0%	8.01	0.7%	1%	8.8	90%	90%	91%
NSA1_R34	Residential (Single dwelling)	7.8	7.95	7.95	0%	8.02	0.9%	1%	8.8	90%	90%	91%
NSA1_R35	Residential (Single dwelling)	7.8	7.95	7.95	0%	8.03	1.0%	1%	8.8	90%	90%	91%
NSA1_R36	Residential (Single dwelling)	7.8	7.96	7.96	0%	8.03	1.0%	1%	8.8	90%	90%	91%
NSA1_R37	Residential (Single dwelling)	7.8	7.97	7.97	0%	8.02	0.7%	1%	8.8	91%	91%	91%
NSA1_R38	Residential (Single dwelling)	7.8	7.98	7.98	0%	8.04	0.7%	1%	8.8	91%	91%	91%
NSA1_R39	Residential (Single dwelling)	7.8	7.95	7.96	0%	8.03	1.0%	1%	8.8	90%	90%	91%
NSA1_R40	Residential (Single dwelling)	7.8	7.96	7.96	0%	8.04	1.0%	1%	8.8	90%	90%	91%
NSA1_R41	Residential (Single dwelling)	7.8	7.96	7.96	0%	8.01	0.7%	1%	8.8	90%	90%	91%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA4 B40	Desidential (Oingle Appelling)	(µg/m³)	(µg/m³)	(µg/m³)	00/	μg/m <sup>3</sup>	0.00/	10/	0.0	00%	00%	049/
NSA1_R42	Residential (Single dwelling)	7.8	7.95	7.95	0%	8.03	0.9%	1%	8.8	90%	90%	91%
_	Residential (Single dwelling)	7.8	7.96	7.96	0%	8.04	1.0%	1%	8.8	90%	90%	91%
NSA1_R44	Residential (Single dwelling)	7.8	7.93	7.94	0%	7.98	0.6%	1%	8.8	90%	90%	91%
NSA2_R01	Residential (Single dwelling)	7.8	7.97	7.97	0%	8.06	1.1%	1%	8.8	91%	91%	92%
NSA2_R02	Residential (Single dwelling)	7.8	7.96	7.96	0%	8.04	1.0%	1%	8.8	90%	90%	91%
NSA2_R03	Residential (Single dwelling)	7.8	7.97	7.97	0%	8.06	1.1%	1%	8.8	91%	91%	92%
	Residential (Single dwelling)	7.8	7.96	7.96	0%	8.01	0.7%	1%	8.8	90%	90%	91%
NSA2_R05	Residential (Single dwelling)	7.8	7.99	7.99	0%	8.05	0.7%	1%	8.8	91%	91%	91%
NSA2_R06	Residential (Single dwelling)	7.8	7.97	7.97	0%	8.02	0.7%	1%	8.8	91%	91%	91%
NSA2_R07	Residential (Townhouse)	7.8	7.97	7.97	0%	8.06	1.1%	1%	8.8	91%	91%	92%
NSA2_R08	Residential (Townhouse)	7.8	7.96	7.96	0%	8.04	1.0%	1%	8.8	90%	90%	91%
_	Residential (Townhouse)	7.8	7.97	7.97	0%	8.06	1.2%	1%	8.8	91%	91%	92%
NSA2_R10	Residential (Single dwelling)	7.8	7.99	8.00	0%	8.05	0.7%	1%	8.8	91%	91%	91%
NSA2_R11	Residential (Single dwelling)	7.8	8.00	8.01	0%	8.06	0.8%	1%	8.8	91%	91%	92%
NSA2_R12	Residential (Single dwelling)	7.8	8.00	8.01	0%	8.06	0.8%	1%	8.8	91%	91%	92%
NSA2_R13	Residential (Townhouse)	7.8	7.96	7.96	0%	8.05	1.1%	1%	8.8	90%	91%	91%
_	Residential (Townhouse)	7.8	7.97	7.98	0%	8.07	1.2%	1%	8.8	91%	91%	92%
NSA2_R15	Residential (Single dwelling)	7.8	7.98	7.98	0%	8.08	1.2%	1%	8.8	91%	91%	92%
NSA2_R16	Residential (Single dwelling)	7.8	7.99	8.00	0%	8.10	1.4%	1%	8.8	91%	91%	92%
NSA2_R17	Residential (Single dwelling)	7.8	7.99	8.00	0%	8.10	1.4%	1%	8.8	91%	91%	92%
NSA2_R18	Residential (Single dwelling)	7.8	7.96	7.96	0%	8.04	1.0%	1%	8.8	90%	91%	91%
NSA2_R19	Residential (Single dwelling)	7.8	7.98	8.00	0%	8.04	0.7%	1%	8.8	91%	91%	91%
NSA2_R20	Residential (Single dwelling)	7.8	8.00	8.01	0%	8.05	0.6%	0%	8.8	91%	91%	91%
NSA2_R21	Residential (Townhouse)	7.8	8.05	8.05	0%	8.08	0.3%	0%	8.8	91%	91%	92%
NSA2_R22	Residential (Single dwelling)	7.8	7.96	7.96	0%	7.99	0.3%	0%	8.8	91%	91%	91%
NSA2_R23	Residential (Single dwelling)	7.8	7.98	7.99	0%	8.01	0.4%	0%	8.8	91%	91%	91%
NSA2_R24	Residential (Single dwelling)	7.8	7.89	7.90	0%	7.94	0.5%	0%	8.8	90%	90%	90%
NSA2_R25	Residential (Townhouse)	7.8	7.86	7.87	0%	7.89	0.3%	0%	8.8	89%	89%	90%
NSA2_R26	Residential (Townhouse)	7.8	7.85	7.85	0%	7.87	0.3%	0%	8.8	89%	89%	89%
NSA2_R27	Residential (Single dwelling)	7.8	7.86	7.86	0%	7.90	0.5%	0%	8.8	89%	89%	90%
NSA2_R28	Residential (Single dwelling)	7.8	7.87	7.88	0%	7.92	0.7%	1%	8.8	89%	90%	90%
NSA2_R29	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.92	0.5%	0%	8.8	90%	90%	90%
NSA2_R30	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.93	0.5%	0%	8.8	90%	90%	90%
NSA2_R31	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.92	0.5%	0%	8.8	90%	90%	90%
NSA2_R32	Residential (Single dwelling)	7.8	7.87	7.87	0%	7.90	0.4%	0%	8.8	89%	89%	90%
NSA2_R33	Residential (Single dwelling)	7.8	7.86	7.87	0%	7.89	0.4%	0%	8.8	89%	89%	90%
NSA2_R34	Residential (Single dwelling)	7.8	7.86	7.87	0%	7.88	0.3%	0%	8.8	89%	89%	90%
NSA3_R01	Residential (Single dwelling)	7.8	7.87	7.88	0%	7.91	0.4%	0%	8.8	89%	90%	90%
NSA3_R02	Residential (Single dwelling)	7.8	7.87	7.88	0%	7.90	0.4%	0%	8.8	89%	90%	90%
NSA3_R03	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.92	0.5%	0%	8.8	90%	90%	90%
NSA3_R04	Residential (Single dwelling)	7.8	7.90	7.92	0%	7.94	0.5%	0%	8.8	90%	90%	90%
NSA3_R05	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.92	0.4%	0%	8.8	90%	90%	90%
NSA3_R06	Residential (Single dwelling)	7.8	7.84	7.85	0%	7.87	0.3%	0%	8.8	89%	89%	89%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NCA4 DO4	Desidential (Cingle desalling)	(μg/m³) 7.8	(μg/m³) 7.89	(μg/m³) 7.91	0%	μg/m³ 7.94	0.6%	0%	8.8	90%	90%	90%
NSA4_R01	Residential (Single dwelling)	7.8	7.86	7.88	0%	7.91	0.6%	0%	8.8	89%	90%	90%
	Residential (Single dwelling)											
NSA4_R03	Residential (Single dwelling)	7.8	7.89	7.92	0%	7.96	0.8%	1%	8.8	90%	90%	90%
NSA4_R04	Residential (Single dwelling)	7.8	7.87	7.88	0%	7.91	0.5%	0%	8.8	89%	90%	
NSA4_R05	Residential (Single dwelling)	7.8	7.89	7.91	0%	7.93	0.5%	0%	8.8	90%	90%	90%
NSA5_R01	Residential (Single dwelling)	7.8	7.88	7.90	0%	7.93	0.6%	0%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.86	7.88	0%	7.90	0.5%	0%	8.8	89%	89%	
NSA6_R01	Residential (Single dwelling)	7.8	7.93	7.96	0%	7.99	0.8%	0%	8.8	90%	90%	91%
NSA6_R02	Residential (Single dwelling)	7.8	7.95	7.99	0%	8.13	2.2%	2%	8.8	90%	91%	92%
NSA6_R03	Residential (Single dwelling)	7.8	7.95	7.98	0%	8.34	4.9%	4%	8.8	90%	91%	95%
NSA6_R04	Residential (Single dwelling)	7.8	7.89	7.91	0%	7.96	0.9%	1%	8.8	90%	90%	90%
_	Residential (Single dwelling)	7.8	7.94	7.96	0%	8.06	1.5%	1%	8.8	90%	91%	92%
NSA6_R06	Residential (Single dwelling)	7.8	7.93	7.96	0%	7.99	0.7%	0%	8.8	90%	90%	91%
NSA7_R01	Residential (Single dwelling)	7.8	7.90	7.91	0%	7.93	0.4%	0%	8.8	90%	90%	90%
NSA8_R01	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.91	0.3%	0%	8.8	90%	90%	90%
NSA8_R02	Residential (Single dwelling)	7.8	8.03	8.05	0%	8.15	1.5%	1%	8.8	91%	91%	93%
NSA8_R03	Residential (Single dwelling)	7.8	8.06	8.08	0%	8.34	3.5%	3%	8.8	92%	92%	95%
NSA8_R04	Residential (Single dwelling)	7.8	7.95	7.96	0%	8.02	0.9%	1%	8.8	90%	90%	91%
NSA8_R05	Residential (Single dwelling)	7.8	7.93	7.94	0%	7.99	0.8%	1%	8.8	90%	90%	91%
NSA8_R06	Residential (Single dwelling)	7.8	7.93	7.94	0%	7.99	0.8%	1%	8.8	90%	90%	91%
NSA8_R07	Residential (Single dwelling)	7.8	7.91	7.92	0%	7.96	0.7%	1%	8.8	90%	90%	90%
NSA8_R08	Residential (Single dwelling)	7.8	7.90	7.91	0%	7.97	1.0%	1%	8.8	90%	90%	91%
NSA8_R09	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.96	1.0%	1%	8.8	90%	90%	91%
NSA8_R10	Residential (Single dwelling)	7.8	7.89	7.90	0%	8.08	2.4%	2%	8.8	90%	90%	92%
_	Residential (Single dwelling)	7.8	7.89	7.90	0%	8.05	1.9%	2%	8.8	90%	90%	91%
NSA8_R12	Residential (Single dwelling)	7.8	7.90	7.91	0%	7.97	0.9%	1%	8.8	90%	90%	91%
	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.92	0.5%	0%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.92	0.5%	0%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.89	7.89	0%	7.96	1.0%	1%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.89	7.90	0%	7.95	0.8%	1%	8.8	90%	90%	90%
	Residential (Townhouse)	7.8	7.88	7.89	0%	7.94	0.8%	1%	8.8	90%	90%	90%
_	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.94	0.7%	1%	8.8	90%	90%	90%
NSA9_R02	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.93	0.6%	1%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.89	7.90	0%	7.96	0.8%	1%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.89	7.90	0%	7.96	0.8%	1%	8.8	90%	90%	90%
NSA9_R05	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.92	0.6%	0%	8.8	90%	90%	90%
NSA9_R06	Residential (Single dwelling)	7.8	7.89	7.90	0%	7.95	0.7%	1%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.88	7.89	0%	7.92	0.5%	0%	8.8	90%	90%	90%
NSA9_R08	Residential (Single dwelling)	7.8	7.89	7.90	0%	7.93	0.5%	0%	8.8	90%	90%	90%
-	Residential (Single dwelling)	7.8	7.90	7.91	0%	7.94	0.6%	0%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.90	7.91	0%	7.95	0.7%	1%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	7.90	7.91	0%	7.96	0.8%	1%	8.8	90%	90%	90%
NSA9_R13	Residential (Single dwelling)	7.8	7.90	7.91	0%	7.96	0.8%	1%	8.8	90%	90%	90%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOAC B44	D : 1 1: 1/0: 1 1 1: )	(µg/m³)	(µg/m³)	(µg/m³)	00/	μg/m <sup>s</sup>	0.00/	40/	0.0	000/	000/	000/
NSA9_R14	Residential (Single dwelling)	7.8	7.90	7.91	0%	7.95	0.6%	1%	8.8	90%	90%	90%
_	Residential (Single dwelling)	7.8	8.02	8.04	0%	8.06	0.5%	0%	8.8	91%	91%	92%
NSA10_R01	Residential (Single dwelling)	7.8	7.91	7.92	0%	7.96	0.6%	0%	8.8	90%	90%	90%
NSA10_R02	Residential (Single dwelling)	7.8	7.95	7.96	0%	8.07	1.5%	1%	8.8	90%	90%	92%
NSA10_R03	Residential (Single dwelling)	7.8	7.92	7.93	0%	8.04	1.5%	1%	8.8	90%	90%	91%
NSA10_R04	Residential (Single dwelling)	7.8	7.91	7.91	0%	8.03	1.5%	1%	8.8	90%	90%	91%
	Residential (Single dwelling)	7.8	7.90	7.91	0%	8.02	1.4%	1%	8.8	90%	90%	91%
NSA10_R06	Residential (Single dwelling)	7.8	7.90	7.91	0%	8.02	1.5%	1%	8.8	90%	90%	91%
NSA10_R07	Residential (Single dwelling)	7.8	7.90	7.90	0%	8.02	1.6%	2%	8.8	90%	90%	91%
NSA10_R08	Residential (Single dwelling)	7.8	7.90	7.90	0%	8.02	1.5%	1%	8.8	90%	90%	91%
NSA10_R09	Residential (Single dwelling)	7.8	7.90	7.90	0%	8.03	1.7%	2%	8.8	90%	90%	91%
	Residential (Single dwelling)	7.8	7.90	7.90	0%	7.96	0.8%	1%	8.8	90%	90%	90%
NSA10_R11	Residential (Single dwelling)	7.8	7.90	7.90	0%	7.94	0.6%	1%	8.8	90%	90%	90%
NSA10_R12	Residential (Single dwelling)	7.8	7.90	7.90	0%	7.99	1.2%	1%	8.8	90%	90%	91%
NSA10_R13	Residential (Single dwelling)	7.8	7.90	7.90	0%	7.97	0.9%	1%	8.8	90%	90%	91%
NSA10_R14	Residential (Single dwelling)	7.8	8.07	8.08	0%	8.09	0.3%	0%	8.8	92%	92%	92%
NSA10_R15	Residential (Single dwelling)	7.8	8.02	8.03	0%	8.04	0.3%	0%	8.8	91%	91%	91%
NSA10_R16	Residential (Single dwelling)	7.8	8.31	8.33	0%	8.35	0.4%	0%	8.8	94%	95%	95%
NSA11_R01	Residential (Single dwelling)	7.8	8.00	7.99	0%	8.06	0.7%	1%	8.8	91%	91%	92%
NSA12_R01	Residential (Single dwelling)	7.8	7.97	7.96	0%	7.98	0.2%	0%	8.8	91%	90%	91%
NSA12_R02	Residential (Single dwelling)	7.8	7.96	7.95	0%	7.98	0.2%	0%	8.8	91%	90%	91%
NSA12_R03	Residential (Single dwelling)	7.8	7.97	7.96	0%	7.98	0.2%	0%	8.8	91%	90%	91%
NSA12_R04	Residential (Single dwelling)	7.8	7.93	7.92	0%	7.95	0.2%	0%	8.8	90%	90%	90%
NSA12_R05	Residential (Single dwelling)	7.8	7.92	7.92	0%	7.94	0.2%	0%	8.8	90%	90%	90%
NSA12_R06	Residential (Single dwelling)	7.8	7.92	7.92	0%	7.94	0.2%	0%	8.8	90%	90%	90%
NSA12_R07	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.2%	0%	8.8	90%	90%	90%
	Residential (Single dwelling)	7.8	8.12	8.10	0%	8.20	1.0%	1%	8.8	92%	92%	93%
	Residential (Single dwelling)	7.8	8.02	8.01	0%	8.07	0.5%	1%	8.8	91%	91%	92%
	Residential (Single dwelling)	7.8	8.10	8.08	0%	8.16	0.8%	1%	8.8	92%	92%	93%
	Residential (Single dwelling)	7.8	7.96	7.95	0%	7.98	0.2%	0%	8.8	90%	90%	91%
NSA12_R12	Residential (Single dwelling)	7.8	7.96	7.95	0%	7.98	0.2%	0%	8.8	90%	90%	91%
	Residential (Single dwelling)	7.8	7.95	7.94	0%	7.97	0.2%	0%	8.8	90%	90%	91%
	Residential (Single dwelling)	7.8	7.95	7.94	0%	7.97	0.2%	0%	8.8	90%	90%	91%
	Residential (Single dwelling)	7.8	7.95	7.94	0%	7.97	0.2%	0%	8.8	90%	90%	91%
	Residential (Single dwelling)	7.8	8.07	8.05	0%	8.12	0.7%	1%	8.8	92%	92%	92%
	Residential (Single dwelling)	7.8	7.95	7.94	0%	7.97	0.2%	0%	8.8	90%	90%	91%
	Residential (Single dwelling)	7.8	7.95	7.94	0%	7.97	0.2%	0%	8.8	90%	90%	91%
	Residential (Townhouse)	7.8	8.02	8.01	0%	8.03	0.2%	0%	8.8	91%	91%	91%
	Residential (Townhouse)	7.8	8.20	8.17	0%	8.21	0.1%	0%	8.8	93%	93%	93%
	Residential (Townhouse)	7.8	8.14	8.12	0%	8.15	0.1%	0%	8.8	93%	92%	93%
NSA12_R22	Residential (Townhouse)	7.8	8.03	8.02	0%	8.04	0.2%	0%	8.8	91%	91%	91%
NSA12_R23	Residential (Townhouse)	7.8	7.93	7.92	0%	7.94	0.2%	0%	8.8	90%	90%	90%
NSA12_R24	Residential (Townhouse)	7.8	7.96	7.95	0%	7.97	0.2%	0%	8.8	90%	90%	91%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)		CAAGO		% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m <sup>3</sup>				` ′		
NSA12_R25	Residential (Single dwelling)	7.8	8.00	7.99	0%	8.02	0.2%	0%	8.8	91%	91%	91%
NSA12_R26	Residential (Single dwelling)	7.8	7.98	7.97	0%	7.99	0.2%	0%	8.8	91%	91%	91%
NSA12_R27	Residential (Single dwelling)	7.8	7.97	7.96	0%	7.99	0.2%	0%	8.8	91%	90%	91%
NSA12_R28	Residential (Single dwelling)	7.8	7.97	7.96	0%	7.99	0.2%	0%	8.8	91%	91%	91%
NSA12_R29	Residential (Single dwelling)	7.8	8.01	8.00	0%	8.02	0.2%	0%	8.8	91%	91%	91%
NSA12_R30	Residential (Single dwelling)	7.8	8.07	8.06	0%	8.09	0.2%	0%	8.8	92%	92%	92%
NSA12_R31	Residential (Single dwelling)	7.8	8.17	8.15	0%	8.18	0.2%	0%	8.8	93%	93%	93%
NSA12_R32	Residential (Single dwelling)	7.8	8.21	8.19	0%	8.23	0.2%	0%	8.8	93%	93%	94%
NSA12_R33	Residential (Single dwelling)	7.8	7.94	7.93	0%	7.95	0.2%	0%	8.8	90%	90%	90%
NSA12_R34	Residential (Townhouse)	7.8	7.91	7.90	0%	7.93	0.3%	0%	8.8	90%	90%	90%
NSA12_R35	Residential (Townhouse)	7.8	7.91	7.90	0%	7.93	0.3%	0%	8.8	90%	90%	90%
NSA12_R36	Residential (Townhouse)	7.8	7.91	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R37	Residential (Townhouse)	7.8	7.91	7.90	0%	7.93	0.3%	0%	8.8	90%	90%	90%
NSA12_R38	Residential (Townhouse)	7.8	7.91	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R39	Residential (Townhouse)	7.8	7.91	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R40	Residential (Single dwelling)	7.8	7.90	7.89	0%	7.91	0.2%	0%	8.8	90%	90%	90%
NSA12_R41	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R42	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.95	0.3%	0%	8.8	90%	90%	90%
NSA12_R43	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R44	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R45	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R46	Residential (Single dwelling)	7.8	7.91	7.91	0%	7.93	0.3%	0%	8.8	90%	90%	90%
NSA12_R47	Residential (Single dwelling)	7.8	7.91	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R48	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R49	Residential (Townhouse)	7.8	7.91	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R50	Residential (Single dwelling)	7.8	8.21	8.19	0%	8.22	0.2%	0%	8.8	93%	93%	93%
NSA12_R51	Residential (Single dwelling)	7.8	8.22	8.20	0%	8.24	0.2%	0.4%	8.8	93%	93%	94%
NSA12_R52	Residential (Single dwelling)	7.8	8.18	8.16	0%	8.20	0.2%	0.4%	8.8	93%	93%	93%
NSA12_R53	Residential (Single dwelling)	7.8	8.23	8.21	0%	8.25	0.2%	0.5%	8.8	93%	93%	94%
NSA12_R54	Residential (Single dwelling)	7.8	8.23	8.21	0%	8.25	0.2%	0%	8.8	93%	93%	94%
NSA12_R55	Residential (Single dwelling)	7.8	8.19	8.17	0%	8.21	0.2%	0%	8.8	93%	93%	93%
NSA12_R56	Residential (Single dwelling)	7.8	8.23	8.21	0%	8.24	0.2%	0%	8.8	93%	93%	94%
NSA12_R57	Residential (Single dwelling)	7.8	8.24	8.22	0%	8.26	0.2%	0%	8.8	94%	93%	94%
NSA12_R58	Residential (Single dwelling)	7.8	8.24	8.22	0%	8.26	0.2%	0%	8.8	94%	93%	94%
NSA12_R59	Residential (Single dwelling)	7.8	8.25	8.22	0%	8.26	0.2%	0%	8.8	94%	93%	94%
NSA12_R60	Residential (Single dwelling)	7.8	8.25	8.22	0%	8.26	0.1%	0%	8.8	94%	93%	94%
NSA12_R61	Residential (Single dwelling)	7.8	8.16	8.14	0%	8.17	0.1%	0%	8.8	93%	93%	93%
NSA12_R62	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R63	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
NSA12_R64	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
 NSA12_R65	Residential (Single dwelling)	7.8	7.92	7.91	0%	7.94	0.3%	0%	8.8	90%	90%	90%
Note:	1 ( 5 6)				<u> </u>	l	1	1		I		<u> </u>

Concentrations are based on the 3 year (2015, 2016 and 2017) average of the average annual concentrations.

Table B-5 24-hour Maximum PM<sub>10</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m <sup>3</sup>						
NSA1_R01	Residential (Single dwelling)	27.8	30.8	32.3	5%	33.9	10%	5%	50	62%	65%	68%
NSA1_R02	Residential (Single dwelling)	27.8	30.8	32.2	5%	34.5	12%	7%	50	62%	64%	69%
NSA1_R03	Residential (Single dwelling)	27.8	30.6	31.9	4%	34.0	11%	7%	50	61%	64%	68%
NSA1_R04	Residential (Single dwelling)	27.8	31.0	32.5	5%	35.2	14%	8%	50	62%	65%	70%
NSA1_R05	Residential (Condominium)	27.8	30.2	31.4	4%	33.2	10%	6%	50	60%	63%	66%
NSA1_R06	Residential (Townhouse)	27.8	29.4	30.2	3%	31.0	5%	2%	50	59%	60%	62%
NSA1_R07	Residential (Townhouse)	27.8	29.5	30.3	3%	31.0	5%	2%	50	59%	61%	62%
NSA1_R08	Residential (Townhouse)	27.8	29.6	30.5	3%	31.3	6%	3%	50	59%	61%	63%
NSA1_R09	Residential (Townhouse)	27.8	29.6	30.5	3%	31.3	6%	3%	50	59%	61%	63%
NSA1_R10	Residential (Townhouse)	27.8	29.7	30.6	3%	31.4	6%	3%	50	59%	61%	63%
NSA1_R11	Residential (Townhouse)	27.8	29.5	30.3	3%	31.1	5%	2%	50	59%	61%	62%
NSA1_R12	Residential (Townhouse)	27.8	29.2	30.0	2%	30.6	5%	2%	50	58%	60%	61%
NSA1_R13	Residential (Single dwelling)	27.8	29.3	30.1	3%	30.7	5%	2%	50	59%	60%	61%
NSA1_R14	Residential (Single dwelling)	27.8	29.2	29.9	2%	30.5	5%	2%	50	58%	60%	61%
NSA1_R15	Residential (Townhouse)	27.8	29.4	30.2	3%	31.0	5%	2%	50	59%	60%	62%
NSA1_R16	Residential (Townhouse)	27.8	29.3	30.0	3%	30.7	5%	2%	50	59%	60%	61%
NSA1_R17	Residential (Townhouse)	27.8	28.9	29.5	2%	30.1	4%	2%	50	58%	59%	60%
NSA1_R18	Residential (Townhouse)	27.8	30.7	32.1	4%	34.6	13%	8%	50	61%	64%	69%
NSA1_R19	Residential (Townhouse)	27.8	30.8	32.3	5%	34.9	13%	8%	50	62%	65%	70%
NSA1 R20	Residential (Single dwelling)	27.8	29.8	30.7	3%	32.1	8%	5%	50	60%	61%	64%
NSA1 R21	Residential (Single dwelling)	27.8	30.3	31.5	4%	33.4	10%	6%	50	61%	63%	67%
 NSA1_R22	Residential (Single dwelling)	27.8	29.9	30.9	3%	32.4	8%	5%	50	60%	62%	65%
 NSA1_R23	Residential (Townhouse)	27.8	29.9	30.9	3%	32.4	8%	5%	50	60%	62%	65%
NSA1 R24	Residential (Townhouse)	27.8	29.7	30.6	3%	31.9	7%	4%	50	59%	61%	64%
NSA1 R25	Residential (Townhouse)	27.8	29.5	30.3	3%	31.4	7%	4%	50	59%	61%	63%
NSA1 R26	Residential (Townhouse)	27.8	29.2	29.8	2%	30.7	5%	3%	50	58%	60%	61%
NSA1_R27	Residential (Townhouse)	27.8	29.6	30.4	3%	31.6	7%	4%	50	59%	61%	63%
NSA1 R28	Residential (Townhouse)	27.8	30.2	31.4	4%	33.1	10%	5%	50	60%	63%	66%
NSA1 R29	Residential (Single dwelling)	27.8	28.7	29.1	1%	29.5	3%	2%	50	57%	58%	59%
NSA1 R30	Residential (Single dwelling)	27.8	28.8	29.2	2%	29.7	3%	2%	50	58%	58%	59%
NSA1 R31	Residential (Single dwelling)	27.8	29.1	29.7	2%	30.3	4%	2%	50	58%	59%	61%
NSA1_R32	Residential (Single dwelling)	27.8	29.0	29.5	2%	30.1	4%	2%	50	58%	59%	60%
NSA1_R33	Residential (Single dwelling)	27.8	29.1	29.7	2%	30.3	4%	2%	50	58%	59%	61%
NSA1 R34	Residential (Single dwelling)	27.8	30.2	31.3	4%	33.0	9%	5%	50	60%	63%	66%
NSA1_R35	Residential (Single dwelling)	27.8	30.3	31.5	4%	33.2	10%	6%	50	61%	63%	66%
NSA1_R36	Residential (Single dwelling)	27.8	30.3	31.5	4%	33.3	10%	6%	50	61%	63%	67%
NSA1_R37	Residential (Single dwelling)	27.8	29.2	29.9	2%	30.5	5%	2%	50	58%	60%	61%
NSA1_R37 NSA1_R38	Residential (Single dwelling)  Residential (Single dwelling)	27.8	29.3	30.0	2%	30.7	5%	2%	50	59%	60%	61%
	` ' '	27.8	30.3	31.5	4%	33.3	10%	6%	50	61%	63%	67%
NSA1_R39	Residential (Single dwelling)	27.8	30.4	31.6	4%	33.5	10%	6%	50	61%	63%	67%
NSA1_R40	Residential (Single dwelling)											
NSA1_R41	Residential (Single dwelling)	27.8	29.1	29.8	2%	30.5	5%	2%	50	58%	60%	61%

Security   Proceedings   12 / 2   23   23   24   46   23   11   18   70   29   18   18   18   18   18   18   18   1	Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
NAME   PART   Restaurtial (Stage central)   27:8   50:5   51:4   45:5   33:1   38:5   56:5   67%   63%   6	ID	Туре		24-hr Max Concentration	Concentration		Concentration			AAQC (μg/m³)	_		Future Build (2041)
NNS.   PM.   Decident (Physical Physical Physi	NSA1 PA2	Residential (Single dwelling)				4%		9%	5%	50	61%	63%	66%
NNAS_PER   Relationary projections   27 p   28 p   29 s   29 s	<del></del>								-				
NOV   100   Protected Single selecting   9.7 B   30.0   31.8   4%   32.8   11%   10%   50   61%   64%   67%   67%   NOV   10%   10	<del> </del>												
No.N. NO.   No. No. No.   No													
NNABAS    Reviewed (Stigle Conting)   27.8   36.6   31.9   44.5   34.0   11.5   65.   65.0		, , , , , , , , , , , , , , , , , , , ,											
INSERT PRO    Proceedings of Service Continue)													
No. 20, 905   Resilected (Stroge conting)   27.0   22.0   22.0   25.1   30.1   30.5   50.8   50.4   20.5   50.5													
NRSZ, PRO    Perfected (Frogress-Auditor)   27.8   20.2   20.9   2%   50.0   5%   2%   50.0   59%   60%   69%													
NASA_R87   Self-denial (Terrebrose)   27.8   30.6   22.6   4%   54.0   11%   6%   50   61%   04%   68%   6								•					
NASA, 2018   NAS													
NASA_R00   Sessionnian (Continue)		,											
NASA_R10   Roscientific (Single Aberling)   Z7 8   29.4   30.2   3%   30.9   9%   2%   50   50%   50%   50%   50%   80%   NASA_R11   NASA_R113   Roscientific (Single Aberling)   27 8   29.5   30.4   3%   31.1   5%   2%   50   59%   61%   62%   62%   NASA_R113   Roscientific (Single Aberling)   27 8   30.6   31.3   4%   33.8   11%   6%   50   61%   66		, ,		30.7		4%	34.1	11%	6%		61%	64%	68%
NeSQ_R11   Residential (Single develing)			27.8	29.4	30.2	3%	30.9	5%	2%	50	59%	60%	62%
NSAC_R14   Readential (Trombouse)			27.8	29.5	30.3	3%	31.0	5%	2%	50	59%	61%	62%
NSAZ_R14   Readential (Single dwelling)	NSA2_R12	Residential (Single dwelling)	27.8	29.5	30.4	3%	31.1	5%	2%	50	59%	61%	62%
NSAZ R15   Residential (Single dealing)   27 8   39 9   324   5%   34.5   11%   6%   50   62%   65%   65%   NNAZ R16   Residential (Single dealing)   27 8   31 1   32.7   5%   34.8   12%   6%   50   62%   65%   65%   70%   NSAZ R17   Residential (Single dealing)   27 8   31 2   32.7   5%   34.5   11%   6%   50   62%   65%   65%   65%   70	NSA2_R13	Residential (Townhouse)	27.8	30.6	31.9	4%	33.8	11%	6%	50	61%	64%	68%
NSA2_R16   Residential (Single dwelling)   27.8   31.1   32.7   5%   34.8   12%   6%   50   62%   65%   70%	NSA2_R14	Residential (Townhouse)	27.8	30.8	32.2	5%	34.3	11%	6%	50	62%	64%	69%
NSA2_R17   Residential (Single dwelling)	NSA2_R15	Residential (Single dwelling)	27.8	30.9	32.4	5%	34.5	11%	6%	50	62%	65%	69%
NSA2 R18   Residential (Single dwelling)   27.8   30.8   32.0   4%   33.5   9%   4%   50   62%   64%   67%	NSA2_R16	Residential (Single dwelling)	27.8	31.1	32.7	5%	34.8	12%	6%	50	62%	65%	70%
NSA2_R19   Residential (Single dwelling)   27.8   29.5   30.3   3%   30.9   5%   2%   50   56%   61%   62%	NSA2_R17	Residential (Single dwelling)	27.8	31.2	32.7	5%	34.5	11%	6%	50	62%	65%	69%
NS/Z_PZ  Residential (Single dwelling)	NSA2_R18	Residential (Single dwelling)	27.8	30.8	32.0	4%	33.5	9%	4%	50	62%	64%	67%
NSA2_R21   Residential (Townhouse)   27.8   30.5   31.3   3%   31.5   3%   1%   50   61%   63%	NSA2_R19	Residential (Single dwelling)	27.8	29.5	30.3	3%	30.9	5%	2%	50	59%	61%	62%
NSA2_R22   Residential (Single dwelling)   27.8   30.2   30.7   2%   30.9   2%   11%   50   60%   61%   62%	NSA2_R20	Residential (Single dwelling)	27.8	29.6	30.5	3%	30.9	4%	1%	50	59%	61%	62%
NSA2_R23   Residential (Single dwelling)   27.8   29.8   30.4   2%   30.7   3%   1%   50   60%   61%   61%   61%   61%   61%   61%   61%   63%	NSA2_R21	Residential (Townhouse)	27.8	30.5	31.3	3%	31.5	3%	1%	50	61%	63%	63%
NSA2 R24   Residential (Single dwelling)   27.8   29.6   30.3   3%   31.5   7%   4%   50   59%   61%   63%     NSA2 R25   Residential (Townhouse)   27.8   28.5   28.8   1%   29.0   2%   19%   50   57%   58%   55%     NSA2 R26   Residential (Townhouse)   27.8   28.4   28.6   1%   28.8   1%   19%   50   57%   57%   58%     NSA2 R27   Residential (Single dwelling)   27.8   28.4   28.6   1%   29.2   33%   2%   50   57%   57%   55%     NSA2 R28   Residential (Single dwelling)   27.8   28.4   28.7   1%   29.4   4%   2%   50   57%   57%   58%     NSA2 R28   Residential (Single dwelling)   27.8   28.4   28.9   1%   29.4   3%   29%   50   57%   57%   58%   59%     NSA2 R29   Residential (Single dwelling)   27.8   28.4   28.9   1%   29.4   3%   29%   50   57%   57%   58%   59%     NSA2 R30   Residential (Single dwelling)   27.8   28.4   28.9   2%   29.3   3%   19%   50   57%   58%   59%     NSA2 R31   Residential (Single dwelling)   27.8   28.4   28.9   2%   29.2   3%   19%   50   57%   58%   59%     NSA2 R32   Residential (Single dwelling)   27.8   28.3   28.7   1%   29.0   2%   19%   50   57%   58%   59%     NSA2 R32   Residential (Single dwelling)   27.8   28.3   28.7   1%   29.0   2%   19%   50   57%   57%   58%     NSA2 R33   Residential (Single dwelling)   27.8   28.3   28.6   1%   29.9   2%   19%   50   57%   57%   58%     NSA2 R34   Residential (Single dwelling)   27.8   28.3   28.6   1%   28.9   2%   19%   50   57%   57%   58%     NSA2 R34   Residential (Single dwelling)   27.8   28.3   28.6   1%   28.9   2%   19%   50   57%   57%   58%     NSA2 R36   Residential (Single dwelling)   27.8   28.3   28.6   1%   28.9   2%   19%   50   57%   57%   58%     NSA3 R01   Residential (Single dwelling)   27.8   28.4   28.8   1%   29.1   2%   19%   50   57%   58%   58%     NSA3 R01   Residential (Single dwelling)   27.8   28.4   28.8   1%   29.1   2%   19%   50   57%   58%   58%     NSA3 R03   Residential (Single dwelling)   27.8   28.4   28.8   1%   29.1   2%   19%   50   57%   58%   58%     NSA3 R04   Residential (Single	NSA2_R22	Residential (Single dwelling)	27.8	30.2	30.7	2%	30.9	2%	1%	50	60%	61%	62%
NSA2_R25         Residential (Townhouse)         27.8         28.5         28.8         1%         29.0         2%         1%         50         57%         58%         58%           NSA2_R26         Residential (Townhouse)         27.8         28.4         28.6         1%         28.8         1%         1%         50         57%         57%         55%           NSA2_R27         Residential (Single dwelling)         27.8         28.4         28.6         1%         29.2         3%         2%         50         57%         57%         55%           NSA2_R28         Residential (Single dwelling)         27.8         28.4         28.7         1%         29.4         4%         2%         50         57%         57%         59%           NSA2_R29         Residential (Single dwelling)         27.8         28.4         28.9         11%         29.4         3%         2%         50         57%         58%         59%           NSA2_R30         Residential (Single dwelling)         27.8         28.5         28.9         2%         29.3         3%         1%         50         57%         58%         59%           NSA2_R31         Residential (Single dwelling)         27.8         2	NSA2_R23							3%	1%	50			
NSA2_R26   Residential (Townhouse)   27.8   28.4   28.6   1%   28.8   1%   1%   50   57%   57%   58%	NSA2_R24	Residential (Single dwelling)		29.6			31.5	7%	4%	50			
NSA2_R27         Residential (Single dwelling)         27.8         28.4         28.6         1%         29.2         3%         2%         50         57%         57%         58%           NSA2_R28         Residential (Single dwelling)         27.8         28.4         28.7         1%         29.4         4%         2%         50         57%         57%         59%           NSA2_R29         Residential (Single dwelling)         27.8         28.4         28.9         1%         29.4         3%         2%         50         57%         55%         59%           NSA2_R30         Residential (Single dwelling)         27.8         28.5         28.9         2%         29.3         3%         1%         50         57%         58%         59%           NSA2_R31         Residential (Single dwelling)         27.8         28.4         28.9         2%         29.2         3%         1%         50         57%         58%         59%           NSA2_R31         Residential (Single dwelling)         27.8         28.3         28.7         1%         29.0         2%         1%         50         57%         57%         58%           NSA2_R33         Residential (Single dwelling)         27.8		Residential (Townhouse)											
NSA2_R28         Residential (Single dwelling)         27.8         28.4         28.7         1%         29.4         4%         2%         50         57%         57%         59%           NSA2_R29         Residential (Single dwelling)         27.8         28.4         28.9         1%         29.4         3%         2%         50         57%         58%         59%           NSA2_R30         Residential (Single dwelling)         27.8         28.5         28.9         2%         29.3         3%         1%         50         57%         58%         59%           NSA2_R31         Residential (Single dwelling)         27.8         28.4         28.9         2%         29.2         3%         1%         50         57%         58%         59%           NSA2_R31         Residential (Single dwelling)         27.8         28.4         28.9         2%         29.2         3%         1%         50         57%         58%         58%           NSA2_R32         Residential (Single dwelling)         27.8         28.3         28.7         1%         29.0         2%         1%         50         57%         57%         58%           NSA2_R33         Residential (Single dwelling)         27.8		, ,											
NSA2_R29         Residential (Single dwelling)         27.8         28.4         28.9         1%         29.4         3%         2%         50         57%         58%         59%           NSA2_R30         Residential (Single dwelling)         27.8         28.5         28.9         2%         29.3         3%         1%         50         57%         58%         59%           NSA2_R31         Residential (Single dwelling)         27.8         28.4         28.9         2%         29.2         3%         1%         50         57%         58%         58%           NSA2_R32         Residential (Single dwelling)         27.8         28.3         28.7         1%         29.0         2%         1%         50         57%         58%         58%           NSA2_R33         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.9         2%         1%         50         57%         57%         58%           NSA2_R34         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.9         2%         1%         50         57%         57%         58%           NSA3_R01         Residential (Single dwelling)         27.8													
NSA2_R30         Residential (Single dwelling)         27.8         28.5         28.9         2%         29.3         3%         1%         50         57%         58%         59%           NSA2_R31         Residential (Single dwelling)         27.8         28.4         28.9         2%         29.2         3%         1%         50         57%         58%         58%           NSA2_R32         Residential (Single dwelling)         27.8         28.3         28.7         1%         29.0         2%         1%         50         57%         57%         58%           NSA2_R33         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.9         2%         1%         50         57%         57%         58%           NSA2_R34         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.9         2%         1%         50         57%         57%         58%           NSA2_R34         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.8         2%         1%         50         57%         57%         58%           NSA3_R01         Residential (Single dwelling)         27.8		, , ,											
NSA2_R31         Residential (Single dwelling)         27.8         28.4         28.9         2%         29.2         3%         1%         50         57%         58%         58%           NSA2_R32         Residential (Single dwelling)         27.8         28.3         28.7         1%         29.0         2%         1%         50         57%         57%         58%           NSA2_R33         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.9         2%         1%         50         57%         57%         58%           NSA2_R34         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.8         2%         1%         50         57%         57%         58%           NSA2_R34         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.8         2%         1%         50         57%         57%         58%           NSA3_R01         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R02         Residential (Single dwelling)         27.8		, , ,											
NSA2_R32         Residential (Single dwelling)         27.8         28.3         28.7         1%         29.0         2%         1%         50         57%         57%         58%           NSA2_R33         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.9         2%         1%         50         57%         57%         58%           NSA2_R34         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.8         2%         1%         50         57%         57%         58%           NSA3_R01         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R02         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R02         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R03         Residential (Single dwelling)         27.8		, , , ,						•					
NSA2_R33         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.9         2%         1%         50         57%         57%         58%           NSA2_R34         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.8         2%         1%         50         57%         57%         58%           NSA3_R01         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R02         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R03         Residential (Single dwelling)         27.8         28.5         29.0         2%         29.3         3%         1%         50         57%         58%         59%           NSA3_R04         Residential (Single dwelling)         27.8         28.7         29.3         2%         29.6         3%         1%         50         57%         59%         59%           NSA3_R05         Residential (Single dwelling)         27.8													
NSA2_R34         Residential (Single dwelling)         27.8         28.3         28.6         1%         28.8         2%         1%         50         57%         57%         58%           NSA3_R01         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R02         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R03         Residential (Single dwelling)         27.8         28.5         29.0         2%         29.3         3%         1%         50         57%         58%         59%           NSA3_R04         Residential (Single dwelling)         27.8         28.7         29.3         2%         29.6         3%         1%         50         57%         59%         59%           NSA3_R05         Residential (Single dwelling)         27.8         28.7         29.2         2%         29.4         3%         1%         50         57%         59%         59%           NSA3_R05         Residential (Single dwelling)         27.8													
NSA3_R01         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R02         Residential (Single dwelling)         27.8         28.4         28.8         1%         29.1         2%         1%         50         57%         58%         58%           NSA3_R03         Residential (Single dwelling)         27.8         28.5         29.0         2%         29.3         3%         1%         50         57%         58%         59%           NSA3_R04         Residential (Single dwelling)         27.8         28.7         29.3         2%         29.6         3%         1%         50         57%         59%         59%           NSA3_R05         Residential (Single dwelling)         27.8         28.7         29.2         2%         29.4         3%         1%         50         57%         58%         59%           NSA3_R05         Residential (Single dwelling)         27.8         28.7         29.2         2%         29.4         3%         1%         50         57%         58%         59%								•					
NSA3_R02     Residential (Single dwelling)     27.8     28.4     28.8     1%     29.1     2%     1%     50     57%     58%     58%       NSA3_R03     Residential (Single dwelling)     27.8     28.5     29.0     2%     29.3     3%     1%     50     57%     58%     59%       NSA3_R04     Residential (Single dwelling)     27.8     28.7     29.3     2%     29.6     3%     1%     50     57%     59%     59%       NSA3_R05     Residential (Single dwelling)     27.8     28.7     29.2     2%     29.4     3%     1%     50     57%     58%     59%	<del> </del>	, , , , , , , , , , , , , , , , , , , ,						•					
NSA3_R03     Residential (Single dwelling)     27.8     28.5     29.0     2%     29.3     3%     1%     50     57%     58%     59%       NSA3_R04     Residential (Single dwelling)     27.8     28.7     29.3     2%     29.6     3%     1%     50     57%     59%     59%       NSA3_R05     Residential (Single dwelling)     27.8     28.7     29.2     2%     29.4     3%     1%     50     57%     58%     59%								•					
NSA3_R04 Residential (Single dwelling) 27.8 28.7 29.3 2% 29.6 3% 1% 50 57% 59% 59% NSA3_R05 Residential (Single dwelling) 27.8 28.7 29.2 2% 29.4 3% 1% 50 57% 58% 59%													
NSA3_R05 Residential (Single dwelling) 27.8 28.7 29.2 2% 29.4 3% 1% 50 57% 58% 59%													
								•					
NSA3_R06 Residential (Single dwelling) 27.8 28.3 28.6 1% 28.9 2% 1% 50 57% 57% 58%	<del></del>	Residential (Single dwelling)	27.8	28.3	28.6		28.9		1%		57%	57%	58%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	27.8	28.6	29.2	2%	29.7	4%	1%	50	57%	58%	59%
NSA4 R02	Residential (Single dwelling)	27.8	28.5	29.0	2%	29.5	3%	1%	50	57%	58%	59%
NSA4 R03	Residential (Single dwelling)	27.8	28.8	29.6	3%	30.2	5%	2%	50	58%	59%	60%
NSA4_R04	Residential (Single dwelling)	27.8	28.5	29.1	2%	29.5	3%	1%	50	57%	58%	59%
NSA4_R05	Residential (Single dwelling)	27.8	28.9	29.7	3%	30.1	4%	1%	50	58%	59%	60%
NSA5_R01	Residential (Single dwelling)	27.8	28.9	29.7	3%	30.2	5%	2%	50	58%	59%	60%
NSA5_R02	Residential (Single dwelling)	27.8	28.4	28.9	2%	29.2	3%	1%	50	57%	58%	58%
NSA6_R01	Residential (Single dwelling)	27.8	29.3	30.5	4%	31.0	6%	2%	50	59%	61%	62%
NSA6_R02	Residential (Single dwelling)	27.8	29.2	30.2	4%	31.9	10%	6%	50	58%	60%	64%
NSA6_R03	Residential (Single dwelling)	27.8	29.1	30.2	4%	34.3	18%	14%	50	58%	60%	69%
NSA6_R04	Residential (Single dwelling)	27.8	28.7	29.4	2%	30.0	4%	2%	50	57%	59%	60%
NSA6_R05	Residential (Single dwelling)	27.8	29.1	30.1	3%	31.3	7%	4%	50	58%	60%	63%
NSA6_R06	Residential (Single dwelling)	27.8	29.2	30.4	4%	30.8	5%	2%	50	58%	61%	62%
NSA7_R01	Residential (Single dwelling)	27.8	28.9	29.6	2%	29.9	3%	1%	50	58%	59%	60%
NSA8_R01	Residential (Single dwelling)	27.8	28.7	29.2	2%	29.5	3%	1%	50	57%	58%	59%
NSA8_R02	Residential (Single dwelling)	27.8	29.7	30.8	4%	31.9	7%	4%	50	59%	62%	64%
NSA8_R03	Residential (Single dwelling)	27.8	30.2	31.5	5%	34.4	14%	9%	50	60%	63%	69%
NSA8_R04	Residential (Single dwelling)	27.8	29.2	30.0	3%	30.7	5%	2%	50	58%	60%	61%
NSA8_R05	Residential (Single dwelling)	27.8	29.0	29.7	2%	30.3	4%	2%	50	58%	59%	61%
NSA8_R06	Residential (Single dwelling)	27.8	29.0	29.7	2%	30.3	5%	2%	50	58%	59%	61%
NSA8_R07	Residential (Single dwelling)	27.8	28.8	29.5	2%	30.0	4%	2%	50	58%	59%	60%
NSA8_R08	Residential (Single dwelling)	27.8	28.6	29.1	2%	30.0	5%	3%	50	57%	58%	60%
NSA8_R09	Residential (Single dwelling)	27.8	28.5	28.9	1%	29.9	5%	3%	50	57%	58%	60%
NSA8_R10	Residential (Single dwelling)	27.8	28.6	29.0	2%	31.2	9%	8%	50	57%	58%	62%
NSA8_R11	Residential (Single dwelling)	27.8	28.6	29.0	2%	30.8	8%	6%	50	57%	58%	62%
NSA8_R12	Residential (Single dwelling)	27.8	28.6	29.1	2%	29.8	4%	2%	50	57%	58%	60%
NSA8_R13	Residential (Single dwelling)	27.8	28.5	29.0	2%	29.3	3%	1%	50	57%	58%	59%
NSA8_R14	Residential (Single dwelling)	27.8	28.4	28.8	1%	29.3	3%	1%	50	57%	58%	59%
NSA8_R15	Residential (Single dwelling)	27.8	28.5	28.9	1%	29.8	4%	3%	50	57%	58%	60%
NSA8_R16	Residential (Single dwelling)	27.8 27.8	28.6	28.9	1%	29.5 29.6	3%	2%	50	57%	58% 58%	59% 59%
NSA8_R17	Residential (Cingle duelling)	27.8	28.6 28.5	29.0	1% 1%	29.5	4% 3%	2% 2%	50 50	57% 57%	58%	59%
NSA9_R01	Residential (Single dwelling)	27.8	28.5	28.9	1%	29.3	3%	2%	50	57%	58%	59%
NSA9_R02 NSA9_R03	Residential (Single dwelling) Residential (Single dwelling)	27.8	28.5	29.0	2%	29.5	4%	2%	50	57%	58%	59%
NSA9_R03 NSA9_R04	Residential (Single dwelling)  Residential (Single dwelling)	27.8	28.5	29.0	2%	29.6	4%	2%	50	57%	58%	59%
NSA9_R05	Residential (Single dwelling)  Residential (Single dwelling)	27.8	28.4	28.8	1%	29.3	3%	2%	50	57%	58%	59%
NSA9_R06	Residential (Single dwelling)	27.8	28.5	29.0	2%	29.5	3%	2%	50	57%	58%	59%
NSA9 R07	Residential (Single dwelling)	27.8	28.5	28.9	1%	29.2	3%	1%	50	57%	58%	58%
NSA9_R08	Residential (Single dwelling)	27.8	28.5	28.9	1%	29.3	3%	1%	50	57%	58%	59%
NSA9_R09	Residential (Single dwelling)	27.8	28.6	29.1	2%	29.4	3%	1%	50	57%	58%	59%
NSA9_R10	Residential (Single dwelling)	27.8	28.6	29.1	2%	29.5	3%	2%	50	57%	58%	59%
NSA9_R11	Residential (Single dwelling)	27.8	28.6	29.1	2%	29.6	3%	2%	50	57%	58%	59%
NSA9_R13	Residential (Single dwelling)	27.8	28.6	29.0	1%	29.8	4%	3%	50	57%	58%	60%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R14	Residential (Single dwelling)	(μg/m³) 27.8	(µg/m³) 28.6	(μg/m³) 29.1	2%	μg/m³ 29.6	3%	2%	50	57%	58%	59%
NSA9_R15	Residential (Single dwelling)	27.8	29.6	30.5	3%	30.9	4%	1%	50	59%	61%	62%
NSA10_R01	Residential (Single dwelling)	27.8	28.7	29.2	2%	29.6	3%	1%	50	57%	58%	59%
NSA10_R02	Residential (Single dwelling)	27.8	29.5	30.1	2%	31.4	6%	4%	50	59%	60%	63%
NSA10_R03	Residential (Single dwelling)	27.8	28.9	29.5	2%	30.8	6%	4%	50	58%	59%	62%
NSA10_R04	Residential (Single dwelling)	27.8	28.9	29.4	2%	30.8	7%	5%	50	58%	59%	62%
NSA10_R05	Residential (Single dwelling)	27.8	28.9	29.5	2%	30.8	6%	4%	50	58%	59%	62%
NSA10_R06	Residential (Single dwelling)	27.8	28.9	29.5	2%	30.9	7%	5%	50	58%	59%	62%
NSA10_R07	Residential (Single dwelling)	27.8	28.9	29.6	2%	31.0	7%	5%	50	58%	59%	62%
NSA10_R08	Residential (Single dwelling)	27.8	28.9	29.6	2%	31.1	7%	5%	50	58%	59%	62%
NSA10_R09	Residential (Single dwelling)	27.8	29.0	29.6	2%	31.3	8%	6%	50	58%	59%	63%
NSA10_R10	Residential (Single dwelling)	27.8	29.0	29.7	2%	30.3	4%	2%	50	58%	59%	61%
NSA10_R11	Residential (Single dwelling)	27.8	29.0	29.7	2%	30.2	4%	1%	50	58%	59%	60%
NSA10_R12	Residential (Single dwelling)	27.8	29.0	29.7	2%	30.8	6%	4%	50	58%	59%	62%
NSA10_R13	Residential (Single dwelling)	27.8	29.0	29.7	2%	30.4	5%	2%	50	58%	59%	61%
NSA10_R14	Residential (Single dwelling)	27.8	31.2	32.9	6%	33.1	6%	0%	50	62%	66%	66%
NSA10_R15	Residential (Single dwelling)	27.8	30.4	31.7	4%	31.9	5%	1%	50	61%	63%	64%
NSA10_R16	Residential (Single dwelling)	27.8	33.5	36.5	9%	36.7	10%	0%	50	67%	73%	73%
NSA11 R01	Residential (Single dwelling)	27.8	29.5	30.3	3%	30.9	5%	2%	50	59%	61%	62%
NSA12_R01	Residential (Single dwelling)	27.8	29.6	30.2	2%	30.4	3%	1%	50	59%	60%	61%
NSA12_R02	Residential (Single dwelling)	27.8	29.5	30.1	2%	30.3	3%	1%	50	59%	60%	61%
NSA12_R03	Residential (Single dwelling)	27.8	29.6	30.2	2%	30.5	3%	1%	50	59%	60%	61%
NSA12_R04	Residential (Single dwelling)	27.8	29.1	29.5	1%	29.9	3%	1%	50	58%	59%	60%
NSA12_R05	Residential (Single dwelling)	27.8	29.1	29.5	1%	29.9	3%	1%	50	58%	59%	60%
NSA12_R06	Residential (Single dwelling)	27.8	29.1	29.5	1%	29.9	3%	1%	50	58%	59%	60%
NSA12_R07	Residential (Single dwelling)	27.8	29.0	29.4	1%	29.8	3%	1%	50	58%	59%	60%
NSA12_R08	Residential (Single dwelling)	27.8	31.1	32.2	4%	33.8	9%	5%	50	62%	64%	68%
NSA12_R09	Residential (Single dwelling)	27.8	30.1	30.9	3%	31.8	6%	3%	50	60%	62%	64%
NSA12_R10	Residential (Single dwelling)	27.8	30.8	31.9	4%	33.3	8%	4%	50	62%	64%	67%
NSA12_R11	Residential (Single dwelling)	27.8	29.6	30.3	2%	30.5	3%	1%	50	59%	61%	61%
NSA12_R12	Residential (Single dwelling)	27.8	29.6	30.2	2%	30.5	3%	1%	50	59%	60%	61%
NSA12_R13	Residential (Single dwelling)	27.8	29.5	30.1	2%	30.4	3%	1%	50	59%	60%	61%
NSA12_R14	Residential (Single dwelling)	27.8	29.4	30.0	2%	30.3	3%	1%	50	59%	60%	61%
NSA12_R15	Residential (Single dwelling)	27.8	29.3	29.8	2%	30.2	3%	1%	50	59%	60%	60%
NSA12_R16	Residential (Single dwelling)	27.8	30.6	31.6	3%	32.7	7%	4%	50	61%	63%	65%
NSA12_R17	Residential (Single dwelling)	27.8	29.3	29.8	2%	30.1	3%	1%	50	59%	60%	60%
	Residential (Single dwelling)	27.8	29.3	29.8	2%	30.1	3%	1%	50	59%	60%	60%
_	Residential (Townhouse)	27.8	30.3	31.2	3%	31.6	4%	1%	50	61%	62%	63%
NSA12_R20	Residential (Townhouse)	27.8	32.1	33.7	5%	34.2	6%	1%	50	64%	67%	68%
NSA12_R21	Residential (Townhouse)	27.8	31.5	32.9	4%	33.3	6%	1%	50	63%	66%	67%
NSA12_R22	Residential (Townhouse)	27.8	30.4	31.4	3%	31.8	4%	1%	50	61%	63%	64%
NSA12_R23	Residential (Townhouse)	27.8	29.3	29.8	2%	30.2	3%	1%	50	59%	60%	60%
NSA12_R24	Residential (Townhouse)	27.8	29.6	30.3	2%	30.6	3%	1%	50	59%	61%	61%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA40 DOE	D : 1 (1/0: 1 1 W )	(µg/m³)	(µg/m³)	(µg/m³)	20/	μg/m <sup>3</sup>	40/	40/	50	000/	620/	C20/
NSA12_R25	Residential (Single dwelling)	27.8	30.1	30.9	3%	31.3	4%	1%	50	60%	62%	63%
NSA12_R26	Residential (Single dwelling)	27.8	29.8	30.6	3%	30.9	4%	1%	50	60%	61%	62%
NSA12_R27	Residential (Single dwelling)	27.8	29.8	30.5	2%	30.8	4%	1%	50	60%	61%	62%
NSA12_R28	Residential (Single dwelling)	27.8	29.8	30.5	3%	30.9	4%	1%	50	60%	61%	62%
NSA12_R29	Residential (Single dwelling)	27.8	30.1	31.0	3%	31.4	4%	1%	50	60%	62%	63%
NSA12_R30	Residential (Single dwelling)	27.8	30.8	31.9	4%	32.4	5%	2%	50	62%	64%	65%
NSA12_R31	Residential (Single dwelling)	27.8	31.7	33.3	5%	33.8	7%	2%	50	63%	67%	68%
NSA12_R32	Residential (Single dwelling)	27.8	32.1	33.8	5%	34.4	7%	2%	50	64%	68%	69%
NSA12_R33	Residential (Single dwelling)	27.8	29.4	30.0	2%	30.3	3%	1%	50	59%	60%	61%
NSA12_R34	Residential (Townhouse)	27.8	29.0	29.5	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R35	Residential (Townhouse)	27.8	29.0	29.5	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R36	Residential (Townhouse)	27.8	29.0	29.5	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R37	Residential (Townhouse)	27.8	29.0	29.4	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R38	Residential (Townhouse)	27.8	29.0	29.4	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R39	Residential (Townhouse)	27.8	29.0	29.4	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R40	Residential (Single dwelling)	27.8	28.8	29.2	1%	29.4	2%	1%	50	58%	58%	59%
NSA12_R41	Residential (Single dwelling)	27.8	29.0	29.4	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R42	Residential (Single dwelling)	27.8	29.0	29.4	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R43	Residential (Single dwelling)	27.8	28.9	29.4	2%	29.7	3%	1%	50	58%	59%	59%
NSA12_R44	Residential (Single dwelling)	27.8	28.9	29.4	2%	29.7	3%	1%	50	58%	59%	59%
NSA12_R45	Residential (Single dwelling)	27.8	28.9	29.3	2%	29.7	3%	1%	50	58%	59%	59%
NSA12_R46	Residential (Single dwelling)	27.8	28.9	29.3	1%	29.6	3%	1%	50	58%	59%	59%
NSA12_R47	Residential (Single dwelling)	27.8	28.9	29.3	1%	29.7	3%	1%	50	58%	59%	59%
NSA12_R48	Residential (Single dwelling)	27.8	28.9	29.4	2%	29.7	3%	1%	50	58%	59%	59%
NSA12_R49	Residential (Townhouse)	27.8	28.9	29.4	2%	29.7	3%	1%	50	58%	59%	59%
NSA12_R50	Residential (Single dwelling)	27.8	32.1	33.8	5%	34.3	7%	1%	50	64%	68%	69%
NSA12_R51	Residential (Single dwelling)	27.8	32.1	33.9	5%	34.4	7%	2%	50	64%	68%	69%
NSA12_R52	Residential (Single dwelling)	27.8	31.8	33.3	5%	33.9	7%	2%	50	64%	67%	68%
NSA12_R53	Residential (Single dwelling)	27.8	32.1	33.8	5%	34.4	7%	2%	50	64%	68%	69%
NSA12_R54	Residential (Single dwelling)	27.8	32.0	33.7	5%	34.3	7%	2%	50	64%	67%	69%
NSA12_R55	Residential (Single dwelling)	27.8	31.7	33.2	5%	33.8	7%	2%	50	63%	66%	68%
NSA12_R56	Residential (Single dwelling)	27.8	32.0	33.7	5%	34.3	7%	2%	50	64%	67%	69%
NSA12_R57	Residential (Single dwelling)	27.8	32.1	33.8	5%	34.4	7%	2%	50	64%	68%	69%
NSA12_R58	Residential (Single dwelling)	27.8	32.1	33.8	5%	34.4	7%	2%	50	64%	68%	69%
NSA12_R59	Residential (Single dwelling)	27.8	32.1	33.8	5%	34.3	7%	2%	50	64%	68%	69%
NSA12_R60	Residential (Single dwelling)	27.8	32.2	33.9	5%	34.4	7%	1%	50	64%	68%	69%
NSA12_R61	Residential (Single dwelling)	27.8	31.5	32.9	4%	33.2	5%	1%	50	63%	66%	66%
NSA12_R62	Residential (Single dwelling)	27.8	29.0	29.5	2%	29.9	3%	1%	50	58%	59%	60%
NSA12_R63	Residential (Single dwelling)	27.8	29.0	29.4	2%	29.8	3%	1%	50	58%	59%	60%
NSA12_R64	Residential (Single dwelling)	27.8	29.0	29.5	2%	29.9	3%	1%	50	58%	59%	60%
NSA12_R65	Residential (Single dwelling)	27.8	29.0	29.5	2%	30.0	3%	2%	50	58%	59%	60%

Table B-6 Three Year Average 98th Percentile 1-hour NO<sub>2</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)		Build (2041)		Future Build (2041)				% of the CAAQS	
		Concentration	98th Percentile 1-hr	98th Percentile 1-hr	% change from	98th Percentile 1-hr	% change from	% change from No-	CAAQS (μg/m³)	Existing	Future No-Build	
ID	Туре	(μg/m <sup>3</sup> )	Concentration (µg/m³)	Concentration (µg/m³)	Existing Conditions	Concentration µg/m³	Existing Conditions	Build		Conditions (2018)	(2041)	Future Build (2041)
NSA1 R01	Residential (Single dwelling)	37.2	53.5	41.0	-23%	41.1	-23%	0.3%	79	68%	52%	52%
NSA1 R02	Residential (Single dwelling)	37.2	53.1	40.9	-23%	41.3	-22%	0.9%	79	67%	52%	52%
NSA1 R03	Residential (Single dwelling)	37.2	51.8	40.5	-22%	40.8	-21%	0.9%	79	66%	51%	52%
NSA1 R04	Residential (Single dwelling)	37.2	54.3	41.2	-24%	41.7	-23%	1.1%	79	69%	52%	53%
 NSA1_R05	Residential (Condominium)	37.2	49.6	39.8	-20%	40.1	-19%	0.7%	79	63%	50%	51%
NSA1 R06	Residential (Townhouse)	37.2	50.7	40.4	-20%	40.5	-20%	0.5%	79	64%	51%	51%
NSA1 R07	Residential (Townhouse)	37.2	51.2	40.6	-21%	40.7	-20%	0.4%	79	65%	51%	52%
NSA1 R08	Residential (Townhouse)	37.2	52.8	41.1	-22%	41.3	-22%	0.5%	79	67%	52%	52%
NSA1_R09	Residential (Townhouse)	37.2	52.6	41.0	-22%	41.2	-22%	0.5%	79	67%	52%	52%
NSA1 R10	Residential (Townhouse)	37.2	53.2	41.2	-23%	41.4	-22%	0.5%	79	67%	52%	52%
NSA1 R11	Residential (Townhouse)	37.2	51.5	40.6	-21%	40.8	-21%	0.5%	79	65%	51%	52%
NSA1_R12	Residential (Townhouse)	37.2	49.1	39.8	-19%	40.0	-18%	0.4%	79	62%	50%	51%
NSA1_R13	Residential (Single dwelling)	37.2	49.7	40.0	-20%	40.2	-19%	0.4%	79	63%	51%	51%
NSA1_R14	Residential (Single dwelling)	37.2	48.3	39.6	-18%	39.7	-18%	0.4%	79	61%	50%	50%
NSA1_R15	Residential (Townhouse)	37.2	51.0	40.5	-21%	40.6	-20%	0.4%	79	65%	51%	51%
NSA1_R16	Residential (Townhouse)	37.2	49.6	40.0	-19%	40.2	-19%	0.4%	79	63%	51%	51%
NSA1_R17	Residential (Townhouse)	37.2	46.0	38.8	-16%	39.0	-15%	0.4%	79	58%	49%	49%
NSA1_R18	Residential (Townhouse)	37.2	52.6	40.7	-23%	41.1	-22%	1.0%	79	67%	52%	52%
NSA1_R19	Residential (Townhouse)	37.2	53.4	40.9	-23%	41.4	-23%	1.1%	79	68%	52%	52%
NSA1_R20	Residential (Single dwelling)	37.2	46.6	38.9	-17%	39.1	-16%	0.6%	79	59%	49%	50%
NSA1_R21	Residential (Single dwelling)	37.2	49.8	39.9	-20%	40.2	-19%	0.8%	79	63%	50%	51%
NSA1_R22	Residential (Single dwelling)	37.2	47.2	39.1	-17%	39.3	-17%	0.6%	79	60%	49%	50%
NSA1_R23	Residential (Townhouse)	37.2	47.4	39.1	-17%	39.4	-17%	0.6%	79	60%	50%	50%
NSA1_R24	Residential (Townhouse)	37.2	46.2	38.8	-16%	39.0	-16%	0.5%	79	58%	49%	49%
NSA1_R25	Residential (Townhouse)	37.2	44.8	38.3	-14%	38.5	-14%	0.5%	79	57%	49%	49%
NSA1_R26	Residential (Townhouse)	37.2	42.9	37.7	-12%	37.8	-12%	0.4%	79	54%	48%	48%
NSA1_R27	Residential (Townhouse)	37.2	45.2	38.5	-15%	38.7	-15%	0.4%	79	57%	49%	49%
NSA1_R28	Residential (Townhouse)	37.2	49.4	39.7	-20%	40.0	-19%	0.7%	79	63%	50%	51%
NSA1_R29	Residential (Single dwelling)	37.2	43.2	37.9	-12%	38.0	-12%	0.3%	79	55%	48%	48%
NSA1_R30	Residential (Single dwelling)	37.2	44.3	38.3	-14%	38.4	-13%	0.4%	79	56%	48%	49%
NSA1_R31	Residential (Single dwelling)	37.2	47.3	39.2	-17%	39.4	-17%	0.5%	79	60%	50%	50%
NSA1_R32	Residential (Single dwelling)	37.2	46.3	38.9	-16%	39.1	-16%	0.4%	79	59%	49%	49%
NSA1_R33	Residential (Single dwelling)	37.2	47.5	39.3	-17%	39.5	-17%	0.4%	79	60%	50%	50%
NSA1_R34	Residential (Single dwelling)	37.2	49.1	39.7	-19%	39.9	-19%	0.7%	79	62%	50%	51%
NSA1_R35	Residential (Single dwelling)	37.2	49.8	39.8	-20%	40.1	-19%	0.7%	79	63%	50%	51%
NSA1_R36	Residential (Single dwelling)	37.2	50.0	39.9	-20%	40.2	-20%	0.7%	79	63%	50%	51%
NSA1_R37	Residential (Single dwelling)	37.2	48.5	39.7	-18%	39.8	-18%	0.4%	79	61%	50%	50%
NSA1_R38	Residential (Single dwelling)	37.2	49.4	39.9	-19%	40.1	-19%	0.5%	79	63%	51%	51%
NSA1_R39	Residential (Single dwelling)	37.2	49.9	39.8	-20%	40.1	-20%	0.7%	79	63%	50%	51%
NSA1_R40	Residential (Single dwelling)	37.2	50.3	40.0	-20%	40.3	-20%	0.7%	79	64%	51%	51%
NSA1_R41	Residential (Single dwelling)	37.2	48.0	39.5	-18%	39.7	-17%	0.4%	79	61%	50%	50%
NSA1_R42	Residential (Single dwelling)	37.2	49.5	39.8	-20%	40.0	-19%	0.7%	79	63%	50%	51%
NSA1_R43	Residential (Single dwelling)	37.2	50.2	40.0	-20%	40.3	-20%	0.8%	79	64%	51%	51%
NSA1_R44	Residential (Single dwelling)	37.2	45.9	38.8	-15%	39.0	-15%	0.4%	79	58%	49%	49%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	98th Percentile 1-hr Concentration (µg/m³)	98th Percentile 1-hr Concentration (µg/m³)	% change from Existing Conditions	98th Percentile 1-hr Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA2 R01	Residential (Single dwelling)	(μg//// ) 37.2	(μg//// ) 51.0	(μg/III ) 40.2	-21%	40.5	-20%	0.8%	79	65%	51%	51%
NSA2_R02	Residential (Single dwelling)	37.2	50.3	40.0	-20%	40.3	-20%	0.8%	79	64%	51%	51%
NSA2_R03	Residential (Single dwelling)	37.2	51.2	40.3	-21%	40.6	-21%	0.8%	79	65%	51%	51%
NSA2_R04	Residential (Single dwelling)	37.2	47.9	39.5	-18%	39.6	-17%	0.5%	79	61%	50%	50%
NSA2_R05	Residential (Single dwelling)	37.2	50.1	40.2	-20%	40.4	-19%	0.5%	79	63%	51%	51%
NSA2_R06	Residential (Single dwelling)	37.2	48.5	39.7	-18%	39.9	-18%	0.5%	79	61%	50%	50%
	Residential (Townhouse)	37.2	50.9	40.2	-21%	40.6	-20%	0.9%	79	64%	51%	51%
NSA2_R08	Residential (Townhouse)	37.2	49.5	39.8	-20%	40.1	-19%	0.8%	79	63%	50%	51%
NSA2_R09	Residential (Townhouse)	37.2	50.9	40.2	-21%	40.6	-20%	0.8%	79	64%	51%	51%
NSA2_R10	Residential (Single dwelling)	37.2	50.4	40.3	-20%	40.5	-20%	0.5%	79	64%	51%	51%
NSA2_R11	Residential (Single dwelling)	37.2	50.8	40.4	-21%	40.6	-20%	0.5%	79	64%	51%	51%
NSA2_R12	Residential (Single dwelling)	37.2	50.6	40.3	-20%	40.5	-20%	0.5%	79	64%	51%	51%
NSA2_R13	Residential (Townhouse)	37.2	50.1	40.0	-20%	40.3	-20%	0.8%	79	63%	51%	51%
	Residential (Townhouse)	37.2	50.8	40.2	-21%	40.6	-20%	0.9%	79	64%	51%	51%
NSA2_R15	Residential (Single dwelling)	37.2	51.0	40.3	-21%	40.6	-20%	0.9%	79	65%	51%	51%
_		37.2	51.3	40.4	-21%	40.7	-21%	0.9%	79	65%	51%	52%
NSA2_R16	Residential (Single dwelling)	37.2	50.3	40.1	-20%	40.4	-20%	0.9%	79	64%	51%	51%
NSA2_R17	Residential (Single dwelling)	37.2	47.8	39.3	-18%	39.5	-17%	0.6%	79	60%	50%	50%
NSA2_R18	Residential (Single dwelling)	37.2	48.4	39.6	-18%	39.8	-18%	0.4%	79	61%	50%	50%
NSA2_R19	Residential (Single dwelling)	37.2	49.1	39.8	-19%	<b>+</b>	-19%	0.4%		62%	50%	51%
NSA2_R20	Residential (Single dwelling)					40.0			79	ł		
NSA2_R21	Residential (Townhouse)	37.2	50.4	40.0	-21%	40.0	-21%	0.1%	79	64%	51%	51%
NSA2_R22	Residential (Single dwelling)	37.2	45.3	38.5	-15%	38.5	-15%	0.2%	79	57%	49%	49%
	Residential (Single dwelling)	37.2	46.7	39.0	-17%	39.0	-16%	0.2%	79	59%	49%	49%
NSA2_R24	Residential (Single dwelling)	37.2	43.2	37.8	-13%	38.0	-12%	0.3%	79	55%	48%	48%
NSA2_R25	Residential (Townhouse)	37.2	39.8	36.9	-7%	37.0	-7%	0.2%	79	50%	47%	47%
NSA2_R26	Residential (Townhouse)	37.2	38.9	36.6	-6%	36.7	-6%	0.2%	79	49%	46%	46%
NSA2_R27	Residential (Single dwelling)	37.2	39.7	36.9	-7%	37.1	-7%	0.4%	79	50%	47%	47%
NSA2_R28	Residential (Single dwelling)	37.2	40.7	37.3	-9%	37.5	-8%	0.6%	79	52%	47%	47%
	Residential (Single dwelling)	37.2	41.6	37.6	-10%	37.7	-9%	0.4%	79	53%	48%	48%
	Residential (Single dwelling)	37.2	41.9	37.7	-10%	37.8	-10%	0.3%	79	53%	48%	48%
	Residential (Single dwelling)	37.2	41.5	37.6	-10%	37.7	-9%	0.3%	79	53%	48%	48%
	Residential (Single dwelling)	37.2	40.5	37.2	-8%	37.3	-8%	0.2%	79	51%	47%	47%
NSA2_R33	Residential (Single dwelling)	37.2	40.1	37.1	-8%	37.1	-7%	0.2%	79	51%	47%	47%
	Residential (Single dwelling)	37.2	39.9	37.0	-7%	37.1	-7%	0.2%	79	51%	47%	47%
NSA3_R01	Residential (Single dwelling)	37.2	41.1	37.4	-9%	37.5	-9%	0.2%	79	52%	47%	47%
	Residential (Single dwelling)	37.2	40.9	37.4	-9%	37.4	-8%	0.2%	79	52%	47%	47%
	Residential (Single dwelling)	37.2	41.8	37.7	-10%	37.8	-10%	0.2%	79	53%	48%	48%
	Residential (Single dwelling)	37.2	43.4	38.3	-12%	38.4	-12%	0.2%	79	55%	48%	49%
NSA3_R05	Residential (Single dwelling)	37.2	41.9	37.8	-10%	37.8	-10%	0.2%	79	53%	48%	48%
NSA3_R06	Residential (Single dwelling)	37.2	39.4	36.8	-7%	36.9	-6%	0.2%	79	50%	47%	47%
NSA4_R01	Residential (Single dwelling)	37.2	43.0	38.4	-11%	38.5	-11%	0.2%	79	54%	49%	49%
NSA4_R02	Residential (Single dwelling)	37.2	41.4	37.7	-9%	37.8	-9%	0.3%	79	52%	48%	48%
NSA4_R03	Residential (Single dwelling)	37.2	42.3	37.9	-10%	38.1	-10%	0.4%	79	54%	48%	48%
NSA4_R04	Residential (Single dwelling)	37.2	40.3	37.2	-8%	37.3	-7%	0.2%	79	51%	47%	47%
NSA4_R05	Residential (Single dwelling)	37.2	43.7	38.4	-12%	38.5	-12%	0.2%	79	55%	49%	49%
NSA5_R01	Residential (Single dwelling)	37.2	43.3	38.3	-11%	38.5	-11%	0.3%	79	55%	49%	49%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	98th Percentile 1-hr Concentration (µg/m³)	98th Percentile 1-hr Concentration (µg/m³)	% change from Existing Conditions	98th Percentile 1-hr Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA5_R02	Residential (Single dwelling)	37.2	40.5	37.4	-8%	37.5	-8%	0.2%	79	51%	47%	47%
NSA6 R01	Residential (Single dwelling)	37.2	48.2	40.2	-17%	40.3	-16%	0.3%	79	61%	51%	51%
NSA6_R02	Residential (Single dwelling)	37.2	48.6	40.5	-17%	40.9	-16%	1.1%	79	62%	51%	52%
NSA6_R03	Residential (Single dwelling)	37.2	48.3	40.4	-16%	41.5	-14%	2.8%	79	61%	51%	53%
NSA6_R04	Residential (Single dwelling)	37.2	43.4	38.5	-11%	38.6	-11%	0.4%	79	55%	49%	49%
NSA6 R05	Residential (Single dwelling)	37.2	46.6	39.7	-15%	40.0	-14%	0.8%	79	59%	50%	51%
NSA6_R06		37.2	48.9	40.5	-17%	40.6	-17%	0.3%	79	62%	51%	51%
NSA7_R01	Residential (Single dwelling)  Residential (Single dwelling)	37.2	43.9	38.3	-13%	38.4	-13%	0.2%	79	56%	48%	49%
NSA8_R01	, , ,	37.2	42.0	37.7	-10%	37.8	-10%	0.1%	79	53%	48%	48%
NSA8_R02	Residential (Single dwelling)	37.2	52.5	41.5	-21%	41.9	-20%	0.1%	79	66%	53%	53%
NSA8_R02	Residential (Single dwelling)  Residential (Single dwelling)	37.2	56.8	43.0	-24%	43.9	-23%	2.1%	79	72%	54%	56%
_	( 0 0/	37.2	47.8		-17%	40.0	-16%	0.6%		61%	50%	51%
NSA8_R04	Residential (Single dwelling)	+		39.8					79			
NSA8_R05	Residential (Single dwelling)	37.2 37.2	46.3 46.1	39.2 39.2	-15% -15%	39.4 39.4	-15% -15%	0.5% 0.4%	79 79	59% 58%	50% 50%	50% 50%
NSA8_R06	Residential (Single dwelling)											
NSA8_R07	Residential (Single dwelling)	37.2	44.7	38.7	-13%	38.9	-13%	0.4%	79	57%	49%	49%
NSA8_R08	Residential (Single dwelling)	37.2	43.3	38.2	-12%	38.4	-11%	0.5%	79	55%	48%	49%
NSA8_R09	Residential (Single dwelling)	37.2	42.2	37.8	-11%	38.0	-10%	0.6%	79	53%	48%	48%
NSA8_R10	Residential (Single dwelling)	37.2	42.5	37.9	-11%	38.5	-9%	1.6%	79	54%	48%	49%
NSA8_R11	Residential (Single dwelling)	37.2	42.7	38.0	-11%	38.4	-10%	1.2%	79	54%	48%	49%
NSA8_R12	Residential (Single dwelling)	37.2	43.2	38.1	-12%	38.3	-11%	0.5%	79	55%	48%	48%
NSA8_R13	Residential (Single dwelling)	37.2	42.2	37.8	-10%	37.9	-10%	0.3%	79	53%	48%	48%
_	Residential (Single dwelling)	37.2	41.7	37.6	-10%	37.7	-10%	0.3%	79	53%	48%	48%
NSA8_R15	Residential (Single dwelling)	37.2	42.0	37.7	-10%	37.9	-10%	0.6%	79	53%	48%	48%
NSA8_R16	Residential (Single dwelling)	37.2	41.8	37.6	-10%	37.8	-10%	0.6%	79	53%	48%	48%
NSA8_R17	Residential (Townhouse)	37.2	41.8	37.6	-10%	37.8	-10%	0.5%	79	53%	48%	48%
NSA9_R01	Residential (Single dwelling)	37.2	42.0	37.7	-10%	37.8	-10%	0.5%	79	53%	48%	48%
NSA9_R02	Residential (Single dwelling)	37.2	41.7	37.6	-10%	37.7	-10%	0.4%	79	53%	48%	48%
NSA9_R03	Residential (Single dwelling)	37.2	42.5	37.9	-11%	38.1	-10%	0.5%	79	54%	48%	48%
	Residential (Single dwelling)	37.2	42.4	37.8	-11%	38.0	-10%	0.5%	79	54%	48%	48%
NSA9_R05	Residential (Single dwelling)	37.2	41.5	37.5	-10%	37.7	-9%	0.4%	79	53%	47%	48%
NSA9_R06	Residential (Single dwelling)	37.2	42.5	37.9	-11%	38.0	-10%	0.4%	79	54%	48%	48%
NSA9_R07	Residential (Single dwelling)	37.2	41.7	37.6	-10%	37.7	-10%	0.3%	79	53%	48%	48%
	Residential (Single dwelling)	37.2	41.9	37.6	-10%	37.7	-10%	0.3%	79	53%	48%	48%
NSA9_R09	Residential (Single dwelling)	37.2	42.2	37.7	-11%	37.8	-10%	0.3%	79	53%	48%	48%
NSA9_R10	Residential (Single dwelling)	37.2	42.2	37.7	-11%	37.8	-10%	0.3%	79	53%	48%	48%
NSA9_R11	Residential (Single dwelling)	37.2	42.5	37.8	-11%	37.9	-11%	0.4%	79	54%	48%	48%
NSA9_R13	Residential (Single dwelling)	37.2	42.5	37.8	-11%	38.0	-11%	0.6%	79	54%	48%	48%
NSA9_R14	Residential (Single dwelling)	37.2	42.7	37.9	-11%	38.0	-11%	0.4%	79	54%	48%	48%
NSA9_R15	Residential (Single dwelling)	37.2	50.3	40.5	-20%	40.5	-20%	0.1%	79	64%	51%	51%
NSA10_R01	Residential (Single dwelling)	37.2	43.1	38.0	-12%	38.1	-12%	0.3%	79	55%	48%	48%
NSA10_R02	Residential (Single dwelling)	37.2	44.2	38.4	-13%	38.7	-12%	0.7%	79	56%	49%	49%
NSA10_R03	Residential (Single dwelling)	37.2	43.1	38.0	-12%	38.3	-11%	0.7%	79	55%	48%	48%
NSA10_R04	Residential (Single dwelling)	37.2	42.8	38.0	-11%	38.2	-11%	0.7%	79	54%	48%	48%
NSA10_R05	Residential (Single dwelling)	37.2	42.8	37.9	-11%	38.2	-11%	0.7%	79	54%	48%	48%
NSA10_R06	Residential (Single dwelling)	37.2	42.8	37.9	-11%	38.2	-11%	0.8%	79	54%	48%	48%
NSA10_R07	Residential (Single dwelling)	37.2	42.8	38.0	-11%	38.3	-11%	0.9%	79	54%	48%	48%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	98th Percentile 1-hr Concentration (µg/m³)	98th Percentile 1-hr Concentration (µg/m³)	% change from Existing Conditions	98th Percentile 1-hr Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA10_R08	Residential (Single dwelling)	37.2	42.9	38.0	-11%	38.3	-11%	1.0%	79	54%	48%	49%
NSA10_R09	Residential (Single dwelling)	37.2	43.1	38.1	-12%	38.4	-11%	1.0%	79	55%	48%	49%
NSA10_R10	Residential (Single dwelling)	37.2	43.3	38.1	-12%	38.3	-12%	0.4%	79	55%	48%	48%
NSA10_R11	Residential (Single dwelling)	37.2	43.4	38.2	-12%	38.3	-12%	0.3%	79	55%	48%	48%
NSA10_R12	Residential (Single dwelling)	37.2	43.2	38.1	-12%	38.4	-11%	0.7%	79	55%	48%	49%
NSA10_R13	Residential (Single dwelling)	37.2	43.3	38.1	-12%	38.3	-12%	0.5%	79	55%	48%	48%
NSA10_R13 NSA10_R14	Residential (Single dwelling)  Residential (Single dwelling)	37.2	65.5	45.6	-30%	45.7	-30%	0.1%	79	83%	58%	58%
NSA10_R14 NSA10_R15		37.2	60.5	44.0	-27%	44.0	-27%	0.1%	79	77%	56%	56%
	Residential (Single dwelling)	37.2	88.6	53.2	-40%	53.3	-40%	0.1%	79	112%	67%	67%
NSA10_R16 NSA11_R01	Residential (Single dwelling)	37.2	52.2	40.5	-22%	40.7	-22%	0.5%	79	66%	51%	52%
	Residential (Single dwelling)	37.2	50.3	39.7	-21%	39.8	-21%	0.2%	79	64%	50%	50%
NSA12_R01	Residential (Single dwelling)	37.2	49.8	39.6	-21%	39.7	-20%	0.2%	79	63%	50%	50%
NSA12_R02	Residential (Single dwelling)											
NSA12_R03	Residential (Single dwelling)	37.2	50.1	39.7	-21% -18%	39.8	-21% -17%	0.2%	79	63% 59%	50% 49%	50% 49%
NSA12_R04	Residential (Single dwelling)	37.2	47.0	38.7		38.8		0.3%	79			
NSA12_R05	Residential (Single dwelling)	37.2	46.8	38.7	-17%	38.8	-17%	0.3%	79	59%	49%	49%
NSA12_R06	Residential (Single dwelling)	37.2	46.8	38.7	-17%	38.8	-17%	0.2%	79	59%	49%	49%
NSA12_R07	Residential (Single dwelling)	37.2	46.7	38.6	-17%	38.7	-17%	0.2%	79	59%	49%	49%
NSA12_R08	Residential (Single dwelling)	37.2	66.4	44.2	-33%	44.6	-33%	0.8%	79	84%	56%	56%
NSA12_R09	Residential (Single dwelling)	37.2	57.0	41.6	-27%	41.8	-27%	0.5%	79	72%	53%	53%
NSA12_R10	Residential (Single dwelling)	37.2	64.1	43.6	-32%	43.9	-32%	0.7%	79	81%	55%	56%
NSA12_R11	Residential (Single dwelling)	37.2	49.5	39.5	-20%	39.6	-20%	0.2%	79	63%	50%	50%
NSA12_R12	Residential (Single dwelling)	37.2	49.5	39.5	-20%	39.6	-20%	0.2%	79	63%	50%	50%
NSA12_R13	Residential (Single dwelling)	37.2	48.5	39.2	-19%	39.3	-19%	0.2%	79	61%	50%	50%
NSA12_R14	Residential (Single dwelling)	37.2	48.4	39.2	-19%	39.3	-19%	0.2%	79	61%	50%	50%
NSA12_R15	Residential (Single dwelling)	37.2	48.1	39.1	-19%	39.2	-18%	0.2%	79	61%	50%	50%
NSA12_R16	Residential (Single dwelling)	37.2	61.6	42.9	-30%	43.1	-30%	0.6%	79	78%	54%	55%
NSA12_R17	Residential (Single dwelling)	37.2	48.1	39.1	-19%	39.2	-18%	0.2%	79	61%	50%	50%
NSA12_R18	Residential (Single dwelling)	37.2	48.1	39.1	-19%	39.2	-18%	0.2%	79	61%	50%	50%
_	Residential (Townhouse)	37.2	58.0	41.9	-28%	42.0	-28%	0.3%	79	73%	53%	53%
NSA12_R20	Residential (Townhouse)	37.2	75.0	46.6	-38%	46.7	-38%	0.3%	79	95%	59%	59%
NSA12_R21	Residential (Townhouse)	37.2	69.4	45.1	-35%	45.2	-35%	0.3%	79	88%	57%	57%
NSA12_R22	Residential (Townhouse)	37.2	58.6	42.1	-28%	42.2	-28%	0.3%	79	74%	53%	53%
NSA12_R23	Residential (Townhouse)	37.2	48.8	39.3	-19%	39.4	-19%	0.2%	79	62%	50%	50%
NSA12_R24	Residential (Townhouse)	37.2	51.6	40.1	-22%	40.2	-22%	0.2%	79	65%	51%	51%
NSA12_R25	Residential (Single dwelling)	37.2	55.9	41.3	-26%	41.4	-26%	0.3%	79	71%	52%	52%
NSA12_R26	Residential (Single dwelling)	37.2	53.4	40.6	-24%	40.7	-24%	0.2%	79	68%	51%	52%
NSA12_R27	Residential (Single dwelling)	37.2	52.8	40.4	-24%	40.5	-23%	0.2%	79	67%	51%	51%
NSA12_R28	Residential (Single dwelling)	37.2	53.3	40.5	-24%	40.6	-24%	0.2%	79	67%	51%	51%
NSA12_R29	Residential (Single dwelling)	37.2	56.9	41.5	-27%	41.6	-27%	0.2%	79	72%	53%	53%
NSA12_R30	Residential (Single dwelling)	37.2	63.0	43.4	-31%	43.5	-31%	0.3%	79	80%	55%	55%
NSA12_R31	Residential (Single dwelling)	37.2	72.7	46.1	-37%	46.2	-36%	0.3%	79	92%	58%	59%
NSA12_R32	Residential (Single dwelling)	37.2	76.7	47.2	-38%	47.4	-38%	0.3%	79	97%	60%	60%
NSA12_R33	Residential (Single dwelling)	37.2	49.2	39.4	-20%	39.5	-20%	0.2%	79	62%	50%	50%
NSA12_R34	Residential (Townhouse)	37.2	44.6	38.1	-15%	38.2	-14%	0.3%	79	56%	48%	48%
NSA12_R35	Residential (Townhouse)	37.2	44.8	38.2	-15%	38.3	-14%	0.3%	79	57%	48%	48%
NSA12_R36	Residential (Townhouse)	37.2	44.9	38.2	-15%	38.3	-15%	0.3%	79	57%	48%	49%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	98th Percentile 1-hr Concentration (µg/m³)	98th Percentile 1-hr Concentration (µg/m³)	% change from Existing Conditions	98th Percentile 1-hr Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA12 R37	Residential (Townhouse)	37.2	44.8	38.2	-15%	38.3	-14%	0.2%	79	57%	48%	48%
NSA12_R38	Residential (Townhouse)	37.2	45.1	38.3	-15%	38.4	-15%	0.3%	79	57%	48%	49%
NSA12_R39	Residential (Townhouse)	37.2	45.2	38.4	-15%	38.5	-15%	0.3%	79	57%	49%	49%
NSA12_R40	Residential (Single dwelling)	37.2	43.5	37.9	-13%	37.9	-13%	0.2%	79	55%	48%	48%
NSA12_R41	Residential (Single dwelling)	37.2	45.6	38.5	-16%	38.6	-15%	0.3%	79	58%	49%	49%
NSA12_R42	Residential (Single dwelling)	37.2	45.8	38.5	-16%	38.6	-16%	0.3%	79	58%	49%	49%
NSA12_R43	Residential (Single dwelling)	37.2	45.5	38.5	-16%	38.6	-15%	0.3%	79	58%	49%	49%
NSA12_R44	Residential (Single dwelling)	37.2	45.5	38.5	-15%	38.6	-15%	0.3%	79	58%	49%	49%
NSA12_R45	Residential (Single dwelling)	37.2	45.4	38.5	-15%	38.6	-15%	0.3%	79	57%	49%	49%
NSA12_R46	Residential (Single dwelling)	37.2	45.0	38.3	-15%	38.4	-15%	0.2%	79	57%	49%	49%
NSA12_R47	Residential (Single dwelling)	37.2	45.3	38.4	-15%	38.5	-15%	0.3%	79	57%	49%	49%
NSA12_R48	Residential (Single dwelling)	37.2	45.5	38.5	-15%	38.6	-15%	0.3%	79	58%	49%	49%
NSA12_R49	Residential (Townhouse)	37.2	45.4	38.4	-15%	38.5	-15%	0.3%	79	57%	49%	49%
NSA12_R50	Residential (Single dwelling)	37.2	76.1	47.0	-38%	47.2	-38%	0.3%	79	96%	60%	60%
NSA12_R51	Residential (Single dwelling)	37.2	76.4	47.1	-38%	47.3	-38%	0.3%	79	97%	60%	60%
NSA12_R52	Residential (Single dwelling)	37.2	72.6	46.1	-36%	46.3	-36%	0.3%	79	92%	58%	59%
NSA12_R53	Residential (Single dwelling)	37.2	76.9	47.2	-39%	47.4	-38%	0.3%	79	97%	60%	60%
NSA12_R54	Residential (Single dwelling)	37.2	76.2	47.1	-38%	47.2	-38%	0.3%	79	96%	60%	60%
NSA12_R55	Residential (Single dwelling)	37.2	72.9	46.2	-37%	46.3	-36%	0.3%	79	92%	58%	59%
NSA12_R56	Residential (Single dwelling)	37.2	75.8	47.0	-38%	47.2	-38%	0.3%	79	96%	60%	60%
NSA12_R57	Residential (Single dwelling)	37.2	76.9	47.4	-38%	47.6	-38%	0.3%	79	97%	60%	60%
NSA12_R58	Residential (Single dwelling)	37.2	77.1	47.5	-38%	47.6	-38%	0.3%	79	98%	60%	60%
NSA12_R59	Residential (Single dwelling)	37.2	77.2	47.5	-38%	47.7	-38%	0.3%	79	98%	60%	60%
NSA12_R60	Residential (Single dwelling)	37.2	77.7	47.6	-39%	47.7	-39%	0.3%	79	98%	60%	60%
NSA12_R61	Residential (Single dwelling)	37.2	69.3	45.3	-35%	45.4	-35%	0.2%	79	88%	57%	57%
NSA12_R62	Residential (Single dwelling)	37.2	46.0	38.6	-16%	38.7	-16%	0.3%	79	58%	49%	49%
NSA12_R63	Residential (Single dwelling)	37.2	45.6	38.5	-16%	38.6	-15%	0.2%	79	58%	49%	49%
NSA12_R64	Residential (Single dwelling)	37.2	46.0	38.6	-16%	38.7	-16%	0.3%	79	58%	49%	49%
NSA12_R65	Residential (Single dwelling)	37.2	46.0	38.6	-16%	38.7	-16%	0.3%	79	58%	49%	49%

## Note:

Concentrations are based on the 98th percentile of 1-hour average concentrations, averaged over 3 consecutive years (2015, 2016 and 2017).

For comparison purposes, the 2025 CAAQS (79 µg/m³) applicable to future conditions (2041) has also been applied to existing conditions (2018). Exceedances of the CAAQS for existing conditions, therefore, is not reflective of the current conditions where the AAQC of 400 µg/m³ is applicable.

Table B-7 24-hour Maximum NO<sub>2</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m <sup>3</sup> )	(µg/m³)	(µg/m³)		μg/m <sup>3</sup>				Containing (2010)	(2011)	
NSA1_R01	Residential (Single dwelling)	30.7	46.3	34.7	-25%	35.0	-25%	1%	200	23%	17%	17%
NSA1_R02	Residential (Single dwelling)	30.7	46.2	34.6	-25%	35.0	-24%	1%	200	23%	17%	18%
NSA1_R03	Residential (Single dwelling)	30.7	45.0	34.2	-24%	34.6	-23%	1%	200	22%	17%	17%
NSA1_R04	Residential (Single dwelling)	30.7	47.1	34.9	-26%	35.4	-25%	1%	200	24%	17%	18%
NSA1_R05	Residential (Condominium)	30.7	42.9	33.6	-22%	34.0	-21%	1%	200	21%	17%	17%
NSA1_R06	Residential (Townhouse)	30.7	38.2	32.2	-16%	32.3	-15%	0%	200	19%	16%	16%
NSA1_R07	Residential (Townhouse)	30.7	38.5	32.2	-16%	32.4	-16%	0%	200	19%	16%	16%
NSA1_R08	Residential (Townhouse)	30.7	39.3	32.5	-17%	32.7	-17%	0%	200	20%	16%	16%
NSA1_R09	Residential (Townhouse)	30.7	39.2	32.5	-17%	32.6	-17%	0%	200	20%	16%	16%
NSA1_R10	Residential (Townhouse)	30.7	39.5	32.6	-18%	32.8	-17%	0%	200	20%	16%	16%
NSA1_R11	Residential (Townhouse)	30.7	38.6	32.3	-16%	32.4	-16%	0%	200	19%	16%	16%
NSA1_R12	Residential (Townhouse)	30.7	37.2	31.8	-14%	32.0	-14%	0%	200	19%	16%	16%
NSA1_R13	Residential (Single dwelling)	30.7	37.6	32.0	-15%	32.1	-15%	0%	200	19%	16%	16%
NSA1_R14	Residential (Single dwelling)	30.7	36.8	31.7	-14%	31.8	-14%	0%	200	18%	16%	16%
NSA1_R15	Residential (Townhouse)	30.7	38.2	32.2	-16%	32.3	-16%	0%	200	19%	16%	16%
NSA1_R16	Residential (Townhouse)	30.7	37.4	31.9	-15%	32.0	-14%	0%	200	19%	16%	16%
NSA1_R17	Residential (Townhouse)	30.7	35.5	31.3	-12%	31.4	-12%	0%	200	18%	16%	16%
NSA1_R18	Residential (Townhouse)	30.7	45.6	34.4	-24%	34.9	-23%	1%	200	23%	17%	17%
NSA1_R19	Residential (Townhouse)	30.7	46.3	34.6	-25%	35.2	-24%	1%	200	23%	17%	18%
NSA1_R20	Residential (Single dwelling)	30.7	40.4	32.8	-19%	33.1	-18%	1%	200	20%	16%	17%
NSA1_R21	Residential (Single dwelling)	30.7	43.3	33.7	-22%	34.1	-21%	1%	200	22%	17%	17%
NSA1_R22	Residential (Single dwelling)	30.7	40.9	33.0	-19%	33.3	-19%	1%	200	20%	16%	17%
NSA1_R23	Residential (Townhouse)	30.7	41.2	33.0	-20%	33.3	-19%	1%	200	21%	17%	17%
NSA1_R24	Residential (Townhouse)	30.7	40.0	32.7	-18%	32.9	-18%	1%	200	20%	16%	16%
NSA1_R25	Residential (Townhouse)	30.7	38.8	32.3	-17%	32.5	-16%	1%	200	19%	16%	16%
NSA1_R26	Residential (Townhouse)	30.7	36.9	31.7	-14%	31.9	-14%	1%	200	18%	16%	16%
NSA1_R27	Residential (Townhouse)	30.7	39.2	32.4	-17%	32.7	-17%	1%	200	20%	16%	16%
NSA1_R28	Residential (Townhouse)	30.7	42.9	33.6	-22%	33.9	-21%	1%	200	21%	17%	17%
NSA1_R29	Residential (Single dwelling)	30.7	34.0	30.8	-10%	30.8	-9%	0%	200	17%	15%	15%
NSA1_R30	Residential (Single dwelling)	30.7	34.6	30.9	-10%	31.0	-10%	0%	200	17%	15%	16%
NSA1_R31	Residential (Single dwelling)	30.7	36.2	31.5	-13%	31.6	-13%	0%	200	18%	16%	16%
NSA1_R32	Residential (Single dwelling)	30.7	35.6	31.3	-12%	31.4	-12%	0%	200	18%	16%	16%
NSA1_R33	Residential (Single dwelling)	30.7	36.2	31.5	-13%	31.6	-13%	0%	200	18%	16%	16%
NSA1_R34	Residential (Single dwelling)	30.7	42.7	33.5	-21%	33.9	-21%	1%	200	21%	17%	17%
NSA1_R35	Residential (Single dwelling)	30.7	43.2	33.7	-22%	34.0	-21%	1%	200	22%	17%	17%
NSA1_R36	Residential (Single dwelling)	30.7	43.4	33.8	-22%	34.1	-21%	1%	200	22%	17%	17%
NSA1_R37	Residential (Single dwelling)	30.7	36.8	31.7	-14%	31.8	-14%	0%	200	18%	16%	16%
NSA1_R38	Residential (Single dwelling)	30.7	37.3	31.9	-15%	32.0	-14%	0%	200	19%	16%	16%
NSA1_R39	Residential (Single dwelling)	30.7	43.3	33.7	-22%	34.1	-21%	1%	200	22%	17%	17%
NSA1_R40	Residential (Single dwelling)	30.7	43.7	33.9	-23%	34.2	-22%	1%	200	22%	17%	17%
NSA1_R41	Residential (Single dwelling)	30.7	36.5	31.6	-14%	31.7	-13%	0%	200	18%	16%	16%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R42	Residential (Single dwelling)	(µg/m³) 30.7	(μg/m³) 42.9	(μg/m³) 33.6	-22%	μg/m³ 33.9	-21%	1%	200	21%	17%	17%
	Residential (Single dwelling)	30.7	43.6	33.8	-22%	34.2	-22%	1%	200	22%	17%	17%
	Residential (Single dwelling)	30.7	35.4	31.2	-12%	31.3	-12%	0%	200	18%	16%	16%
	Residential (Single dwelling)	30.7	44.3	34.1	-23%	34.4	-22%	1%	200	22%	17%	17%
_	Residential (Single dwelling)	30.7	43.9	33.9	-23%	34.3	-22%	1%	200	22%	17%	17%
NSA2_R03	Residential (Single dwelling)	30.7	44.7	34.2	-24%	34.6	-23%	1%	200	22%	17%	17%
NSA2_R04	Residential (Single dwelling)	30.7	36.5	31.6	-13%	31.7	-13%	0%	200	18%	16%	16%
NSA2_R05	Residential (Single dwelling)	30.7	37.6	31.9	-15%	32.1	-15%	0%	200	19%	16%	16%
NSA2_R06	Residential (Single dwelling)	30.7	36.8	31.7	-14%	31.8	-14%	0%	200	18%	16%	16%
NSA2_R07	Residential (Townhouse)	30.7	44.5	34.1	-23%	34.5	-22%	1%	200	22%	17%	17%
NSA2_R08	Residential (Townhouse)	30.7	43.4	33.8	-22%	34.1	-21%	1%	200	22%	17%	17%
NSA2_R09	Residential (Townhouse)	30.7	44.5	34.1	-23%	34.5	-22%	1%	200	22%	17%	17%
NSA2_R10	Residential (Single dwelling)	30.7	37.8	32.0	-15%	32.1	-15%	0%	200	19%	16%	16%
	Residential (Single dwelling)	30.7	38.0	32.1	-16%	32.2	-15%	0%	200	19%	16%	16%
NSA2_R12	Residential (Single dwelling)	30.7	38.0	32.0	-16%	32.2	-15%	0%	200	19%	16%	16%
_	Residential (Townhouse)	30.7	44.0	33.9	-23%	34.3	-22%	1%	200	22%	17%	17%
_	Residential (Townhouse)	30.7	44.7	34.2	-23%	34.6	-23%	1%	200	22%	17%	17%
NSA2_R15	Residential (Single dwelling)	30.7	44.9	34.2	-24%	34.6	-23%	1%	200	22%	17%	17%
_	Residential (Single dwelling)	30.7	45.4	34.4	-24% -24%	34.8 34.6	-23%	1%	200	23%	17% 17%	17% 17%
_	Residential (Single dwelling)	30.7 30.7	45.1 42.8	34.3	-24% -22%	34.6	-23% -21%	1% 1%	200	23% 21%	17%	17%
_	Residential (Single dwelling) Residential (Single dwelling)	30.7	37.0	31.7	-14%	31.8	-14%	0%	200	18%	16%	16%
	Residential (Single dwelling)	30.7	37.4	31.8	-15%	31.9	-15%	0%	200	19%	16%	16%
_	Residential (Townhouse)	30.7	38.9	32.1	-17%	32.2	-17%	0%	200	19%	16%	16%
_	Residential (Single dwelling)	30.7	36.6	31.4	-14%	31.4	-14%	0%	200	18%	16%	16%
 NSA2_R23	Residential (Single dwelling)	30.7	36.9	31.6	-14%	31.7	-14%	0%	200	18%	16%	16%
_	Residential (Single dwelling)	30.7	37.2	31.9	-14%	32.1	-14%	1%	200	19%	16%	16%
	Residential (Townhouse)	30.7	32.3	30.2	-6%	30.3	-6%	0%	200	16%	15%	15%
NSA2_R26	Residential (Townhouse)	30.7	31.7	30.0	-5%	30.1	-5%	0%	200	16%	15%	15%
NSA2_R27	Residential (Single dwelling)	30.7	31.9	30.2	-5%	30.2	-5%	0%	200	16%	15%	15%
NSA2_R28	Residential (Single dwelling)	30.7	32.3	30.3	-6%	30.5	-6%	0%	200	16%	15%	15%
NSA2_R29	Residential (Single dwelling)	30.7	32.7	30.5	-7%	30.6	-6%	0%	200	16%	15%	15%
NSA2_R30	Residential (Single dwelling)	30.7	32.9	30.6	-7%	30.7	-7%	0%	200	16%	15%	15%
NSA2_R31	Residential (Single dwelling)	30.7	32.7	30.5	-7%	30.6	-7%	0%	200	16%	15%	15%
_	Residential (Single dwelling)	30.7	32.2	30.3	-6%	30.3	-6%	0%	200	16%	15%	15%
_	Residential (Single dwelling)	30.7	31.9	30.2	-5%	30.3	-5%	0%	200	16%	15%	15%
_	Residential (Single dwelling)	30.7	31.9	30.2	-5%	30.2	-5%	0%	200	16%	15%	15%
_	Residential (Single dwelling)	30.7	32.6	30.4	-7%	30.5	-6%	0%	200	16%	15%	15%
_	Residential (Single dwelling)	30.7	32.5	30.4	-6%	30.5	-6%	0%	200	16%	15%	15%
_	Residential (Single dwelling)	30.7	33.0	30.6	-7%	30.7	-7%	0%	200	17%	15%	15%
_	Residential (Single dwelling)	30.7	33.9	30.9	-9%	31.0	-9%	0%	200	17%	15%	15%
	Residential (Single dwelling)	30.7	33.3	30.7	-8%	30.8	-8%	0%	200	17%	15%	15%
NSA3_R06	Residential (Single dwelling)	30.7	31.8	30.1	-5%	30.2	-5%	0%	200	16%	15%	15%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NCA4 DO1	Decidential (Cingle dualling)	(µg/m³) 30.7	(μg/m³) 33.8	(μg/m³) 31.0	-8%	μg/m³ 31.1	-8%	0%	200	17%	16%	16%
NSA4_R01 NSA4_R02	Residential (Single dwelling)	30.7	33.0	30.7	-7%	30.8	-7%	0%	200	17%	15%	15%
NSA4_R02 NSA4_R03	Residential (Single dwelling) Residential (Single dwelling)	30.7	33.6	30.8	-8%	30.9	-8%	0%	200	17%	15%	15%
NSA4_R04	Residential (Single dwelling)	30.7	32.5	30.4	-6%	30.5	-6%	0%	200	16%	15%	15%
NSA4_R05	Residential (Single dwelling)	30.7	34.3	31.1	-10%	31.1	-9%	0%	200	17%	16%	16%
NSA5_R01	Residential (Single dwelling)	30.7	35.2	31.5	-10%	31.6	-10%	0%	200	18%	16%	16%
NSA5_R02	Residential (Single dwelling)	30.7	32.6	30.5	-6%	30.6	-6%	0%	200	16%	15%	15%
NSA6 R01	Residential (Single dwelling)	30.7	37.5	32.4	-14%	32.5	-13%	0%	200	19%	16%	16%
NSA6 R02	Residential (Single dwelling)	30.7	36.7	32.1	-13%	32.4	-12%	1%	200	18%	16%	16%
NSA6_R03	Residential (Single dwelling)	30.7	36.6	32.1	-12%	32.8	-10%	2%	200	18%	16%	16%
NSA6_R04	Residential (Single dwelling)	30.7	34.2	31.1	-9%	31.2	-9%	0%	200	17%	16%	16%
NSA6_R05	Residential (Single dwelling)	30.7	36.5	32.0	-12%	32.2	-12%	1%	200	18%	16%	16%
NSA6_R06	Residential (Single dwelling)	30.7	37.1	32.2	-13%	32.3	-13%	0%	200	19%	16%	16%
NSA7_R01	Residential (Single dwelling)	30.7	34.2	31.0	-9%	31.1	-9%	0%	200	17%	16%	16%
NSA8_R01	Residential (Single dwelling)	30.7	34.0	30.9	-9%	31.0	-9%	0%	200	17%	15%	15%
NSA8_R02	Residential (Single dwelling)	30.7	38.7	32.6	-16%	32.8	-15%	1%	200	19%	16%	16%
NSA8_R03	Residential (Single dwelling)	30.7	41.5	33.6	-19%	34.2	-18%	2%	200	21%	17%	17%
NSA8_R04	Residential (Single dwelling)	30.7	36.2	31.7	-12%	31.9	-12%	0%	200	18%	16%	16%
NSA8_R05	Residential (Single dwelling)	30.7	35.4	31.4	-11%	31.5	-11%	0%	200	18%	16%	16%
NSA8_R06	Residential (Single dwelling)	30.7	35.4	31.4	-11%	31.6	-11%	0%	200	18%	16%	16%
NSA8_R07	Residential (Single dwelling)	30.7	34.6	31.2	-10%	31.2	-10%	0%	200	17%	16%	16%
NSA8_R08	Residential (Single dwelling)	30.7	33.4	30.7	-8%	30.8	-8%	0%	200	17%	15%	15%
NSA8_R09	Residential (Single dwelling)	30.7	32.9	30.5	-7%	30.7	-7%	1%	200	16%	15%	15%
NSA8_R10	Residential (Single dwelling)	30.7	33.1	30.6	-8%	31.0	-7%	1%	200	17%	15%	15%
NSA8_R11	Residential (Single dwelling)	30.7	33.2	30.6	-8%	30.9	-7%	1%	200	17%	15%	15%
NSA8_R12	Residential (Single dwelling)	30.7	33.3	30.6	-8%	30.8	-8%	0%	200	17%	15%	15%
	Residential (Single dwelling)	30.7	33.0	30.6	-7%	30.6	-7%	0%	200	17%	15%	15%
NSA8_R14	Residential (Single dwelling)	30.7	32.6	30.4	-7%	30.5	-7%	0%	200	16%	15%	15%
NSA8_R15	Residential (Single dwelling)	30.7	32.7 32.6	30.4	-7% -7%	30.6	-7% -6%	1%	200	16% 16%	15% 15%	15% 15%
NSA8_R16	Residential (Single dwelling)	30.7 30.7	32.7	30.4	-7% -7%	30.5 30.5	-7%	0% 0%	200	16%	15%	15%
NSA8_R17	Residential (Townhouse)	30.7	32.7	30.4	-7%	30.5	-7%	0%	200	16%	15%	15%
NSA9_R01 NSA9_R02	Residential (Single dwelling) Residential (Single dwelling)	30.7	32.6	30.4	-7%	30.5	-7%	0%	200	16%	15%	15%
NSA9_R02 NSA9_R03	Residential (Single dwelling)  Residential (Single dwelling)	30.7	33.0	30.5	-8%	30.6	-7%	0%	200	17%	15%	15%
NSA9_R03	Residential (Single dwelling)	30.7	33.0	30.5	-8%	30.6	-7%	0%	200	16%	15%	15%
NSA9_R05	Residential (Single dwelling)	30.7	32.6	30.3	-7%	30.4	-7%	0%	200	16%	15%	15%
NSA9_R06	Residential (Single dwelling)	30.7	33.1	30.5	-8%	30.6	-7%	0%	200	17%	15%	15%
NSA9 R07	Residential (Single dwelling)	30.7	32.7	30.4	-7%	30.5	-7%	0%	200	16%	15%	15%
NSA9 R08	Residential (Single dwelling)	30.7	32.8	30.4	-7%	30.5	-7%	0%	200	16%	15%	15%
NSA9 R09	Residential (Single dwelling)	30.7	32.9	30.4	-8%	30.5	-7%	0%	200	16%	15%	15%
NSA9_R10	Residential (Single dwelling)	30.7	32.9	30.4	-8%	30.5	-7%	0%	200	16%	15%	15%
 NSA9_R11	Residential (Single dwelling)	30.7	33.0	30.5	-8%	30.6	-7%	0%	200	17%	15%	15%
NSA9_R13	Residential (Single dwelling)	30.7	33.1	30.5	-8%	30.6	-7%	0%	200	17%	15%	15%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOAC DAA		(µg/m³)	(µg/m³)	(µg/m³)		µg/m³		00/	200		450/	450/
NSA9_R14	Residential (Single dwelling)	30.7	33.3	30.6	-8%	30.7	-8%	0%	200	17%	15%	15%
NSA9_R15	Residential (Single dwelling)	30.7	38.4	32.3	-16% -9%	32.4 30.8	-16%	0% 0%	200	19% 17%	16%	16% 15%
NSA10_R01	Residential (Single dwelling)	30.7 30.7	33.6 35.1	30.7	-9% -11%	31.5	-8% -10%	1%	200	18%	15% 16%	16%
NSA10_R02	Residential (Single dwelling)	30.7	34.4	31.0	-10%	31.3	-9%	1%	200	17%	16%	16%
NSA10_R03 NSA10_R04	Residential (Single dwelling)	30.7	34.7	31.1	-10%	31.4	-10%	1%	200	17%	16%	16%
NSA10_R05	Residential (Single dwelling)  Residential (Single dwelling)	30.7	35.1	31.2	-11%	31.5	-10%	1%	200	18%	16%	16%
NSA10_R06	Residential (Single dwelling)	30.7	35.3	31.3	-11%	31.6	-11%	1%	200	18%	16%	16%
NSA10_R07	Residential (Single dwelling)	30.7	35.5	31.4	-12%	31.6	-11%	1%	200	18%	16%	16%
NSA10_R08	Residential (Single dwelling)	30.7	35.5	31.4	-12%	31.7	-11%	1%	200	18%	16%	16%
NSA10_R09	Residential (Single dwelling)	30.7	35.6	31.4	-12%	31.8	-11%	1%	200	18%	16%	16%
NSA10_R10	Residential (Single dwelling)	30.7	36.0	31.6	-12%	31.7	-12%	0%	200	18%	16%	16%
NSA10_R11	Residential (Single dwelling)	30.7	36.1	31.6	-12%	31.7	-12%	0%	200	18%	16%	16%
NSA10_R12	Residential (Single dwelling)	30.7	35.8	31.5	-12%	31.7	-11%	1%	200	18%	16%	16%
NSA10_R13	Residential (Single dwelling)	30.7	35.9	31.6	-12%	31.7	-12%	0%	200	18%	16%	16%
NSA10_R14	Residential (Single dwelling)	30.7	47.0	35.2	-25%	35.2	-25%	0%	200	23%	18%	18%
NSA10_R15	Residential (Single dwelling)	30.7	42.9	33.8	-21%	33.9	-21%	0%	200	21%	17%	17%
NSA10_R16	Residential (Single dwelling)	30.7	61.2	40.0	-35%	40.0	-35%	0%	200	31%	20%	20%
NSA11_R01	Residential (Single dwelling)	30.7	38.8	32.3	-17%	32.4	-16%	0%	200	19%	16%	16%
NSA12_R01	Residential (Single dwelling)	30.7	38.2	31.8	-17%	31.9	-17%	0%	200	19%	16%	16%
NSA12_R02	Residential (Single dwelling)	30.7	37.7	31.7	-16%	31.7	-16%	0%	200	19%	16%	16%
NSA12_R03	Residential (Single dwelling)	30.7	38.3	31.9	-17%	31.9	-17%	0%	200	19%	16%	16%
NSA12_R04	Residential (Single dwelling)	30.7	36.0	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R05	Residential (Single dwelling)	30.7	35.9	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R06	Residential (Single dwelling)	30.7	35.9	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R07	Residential (Single dwelling)	30.7	35.8	31.1	-13%	31.2	-13%	0%	200	18%	16%	16%
NSA12_R08	Residential (Single dwelling)	30.7	47.0	34.5	-27%	34.8	-26%	1%	200	23%	17%	17%
NSA12_R09	Residential (Single dwelling)	30.7	41.8	32.9	-21%	33.1	-21%	1%	200	21%	16%	17% 17%
NSA12_R10	Residential (Single dwelling)  Residential (Single dwelling)	30.7 30.7	45.8 38.5	34.1 31.9	-26% -17%	34.4 32.0	-25% -17%	1% 0%	200	23% 19%	17% 16%	16%
NSA12_R11 NSA12_R12	Residential (Single dwelling)	30.7	38.5	31.9	-17%	32.0	-17%	0%	200	19%	16%	16%
NSA12_R12 NSA12_R13	Residential (Single dwelling)  Residential (Single dwelling)	30.7	38.0	31.8	-16%	31.8	-16%	0%	200	19%	16%	16%
NSA12_R13	Residential (Single dwelling)	30.7	37.6	31.7	-16%	31.7	-16%	0%	200	19%	16%	16%
	Residential (Single dwelling)	30.7	37.2	31.6	-15%	31.7	-15%	0%	200	19%	16%	16%
NSA12_R16	Residential (Single dwelling)	30.7	44.4	33.7	-24%	33.9	-24%	1%	200	22%	17%	17%
NSA12_R17	Residential (Single dwelling)	30.7	37.3	31.6	-15%	31.7	-15%	0%	200	19%	16%	16%
NSA12_R18	Residential (Single dwelling)	30.7	37.3	31.7	-15%	31.7	-15%	0%	200	19%	16%	16%
	Residential (Townhouse)	30.7	42.9	33.3	-23%	33.3	-22%	0%	200	21%	17%	17%
NSA12_R20	Residential (Townhouse)	30.7	53.0	36.2	-32%	36.3	-31%	0%	200	27%	18%	18%
NSA12_R21	Residential (Townhouse)	30.7	49.7	35.3	-29%	35.4	-29%	0%	200	25%	18%	18%
NSA12_R22	Residential (Townhouse)	30.7	43.7	33.5	-23%	33.6	-23%	0%	200	22%	17%	17%
NSA12_R23	Residential (Townhouse)	30.7	37.5	31.7	-16%	31.7	-15%	0%	200	19%	16%	16%
NSA12_R24	Residential (Townhouse)	30.7	39.4	32.2	-18%	32.3	-18%	0%	200	20%	16%	16%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m³						
NSA12_R25	Residential (Single dwelling)	30.7	41.9	33.0	-21%	33.0	-21%	0%	200	21%	16%	17%
NSA12_R26	Residential (Single dwelling)	30.7	40.5	32.5	-20%	32.6	-19%	0%	200	20%	16%	16%
NSA12_R27	Residential (Single dwelling)	30.7	40.1	32.4	-19%	32.5	-19%	0%	200	20%	16%	16%
NSA12_R28	Residential (Single dwelling)	30.7	40.2	32.5	-19%	32.6	-19%	0%	200	20%	16%	16%
NSA12_R29	Residential (Single dwelling)	30.7	42.2	33.1	-22%	33.2	-21%	0%	200	21%	17%	17%
NSA12_R30	Residential (Single dwelling)	30.7	45.7	34.2	-25%	34.3	-25%	0%	200	23%	17%	17%
NSA12_R31	Residential (Single dwelling)	30.7	51.1	35.8	-30%	35.9	-30%	0%	200	26%	18%	18%
NSA12_R32	Residential (Single dwelling)	30.7	53.1	36.4	-31%	36.5	-31%	0%	200	27%	18%	18%
NSA12_R33	Residential (Single dwelling)	30.7	38.0	31.8	-16%	31.9	-16%	0%	200	19%	16%	16%
NSA12_R34	Residential (Townhouse)	30.7	35.9	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R35	Residential (Townhouse)	30.7	36.0	31.3	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R36	Residential (Townhouse)	30.7	36.0	31.3	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R37	Residential (Townhouse)	30.7	35.8	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R38	Residential (Townhouse)	30.7	35.9	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R39	Residential (Townhouse)	30.7	35.8	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R40	Residential (Single dwelling)	30.7	34.7	30.9	-11%	30.9	-11%	0%	200	17%	15%	15%
NSA12_R41	Residential (Single dwelling)	30.7	35.8	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R42	Residential (Single dwelling)	30.7	35.7	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R43	Residential (Single dwelling)	30.7	35.6	31.1	-12%	31.2	-12%	0%	200	18%	16%	16%
NSA12_R44	Residential (Single dwelling)	30.7	35.5	31.1	-12%	31.2	-12%	0%	200	18%	16%	16%
NSA12_R45	Residential (Single dwelling)	30.7	35.4	31.1	-12%	31.1	-12%	0%	200	18%	16%	16%
NSA12_R46	Residential (Single dwelling)	30.7	35.2	31.0	-12%	31.1	-12%	0%	200	18%	16%	16%
NSA12_R47	Residential (Single dwelling)	30.7	35.3	31.1	-12%	31.1	-12%	0%	200	18%	16%	16%
NSA12_R48	Residential (Single dwelling)	30.7	35.5	31.1	-12%	31.2	-12%	0%	200	18%	16%	16%
NSA12_R49	Residential (Townhouse)	30.7	35.5	31.1	-12%	31.2	-12%	0%	200	18%	16%	16%
NSA12_R50	Residential (Single dwelling)	30.7	53.0	36.4	-31%	36.5	-31%	0%	200	26%	18%	18%
NSA12_R51	Residential (Single dwelling)	30.7	53.2	36.4	-32%	36.5	-31%	0%	200	27%	18%	18%
NSA12_R52	Residential (Single dwelling)	30.7	51.2	35.8	-30%	35.9	-30%	0%	200	26%	18%	18%
NSA12_R53	Residential (Single dwelling)	30.7	53.0	36.4	-31%	36.5	-31%	0%	200	26%	18%	18%
NSA12_R54	Residential (Single dwelling)	30.7	52.7	36.3	-31%	36.4	-31%	0%	200	26%	18%	18%
NSA12_R55	Residential (Single dwelling)	30.7	50.8	35.7	-30%	35.8	-30%	0%	200	25%	18%	18%
NSA12_R56	Residential (Single dwelling)	30.7	52.5	36.2	-31%	36.3	-31%	0%	200	26%	18%	18%
NSA12_R57	Residential (Single dwelling)	30.7	53.1	36.4	-31%	36.5	-31%	0%	200	27%	18%	18%
NSA12_R58	Residential (Single dwelling)	30.7	53.1	36.4	-31%	36.5	-31%	0%	200	27%	18%	18%
NSA12_R59	Residential (Single dwelling)	30.7	53.1	36.4	-31%	36.5	-31%	0%	200	27%	18%	18%
NSA12_R60	Residential (Single dwelling)	30.7	53.4	36.5	-32%	36.6	-31%	0%	200	27%	18%	18%
NSA12_R61	Residential (Single dwelling)	30.7	48.8	35.2	-28%	35.2	-28%	0%	200	24%	18%	18%
NSA12_R62	Residential (Single dwelling)	30.7	35.9	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R63	Residential (Single dwelling)	30.7	35.7	31.2	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R64	Residential (Single dwelling)	30.7	36.0	31.3	-13%	31.3	-13%	0%	200	18%	16%	16%
NSA12_R65	Residential (Single dwelling)	30.7	36.1	31.3	-13%	31.4	-13%	0%	200	18%	16%	16%

Table B-8 Annual Average NO<sub>2</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

		Background	(2018)	Future No-I	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Exically Conditions	μg/m <sup>3</sup>	Exiculty Conditions	Dalla		Containione (2010)	(2011)	
NSA1_R01 R	Residential (Single dwelling)	17.4	20.2	18.3	-9%	18.3	-9%	0%	23	88%	79%	80%
NSA1_R02 R	Residential (Single dwelling)	17.4	20.1	18.3	-9%	18.3	-9%	0%	23	88%	79%	80%
NSA1_R03 R	Residential (Single dwelling)	17.4	19.9	18.2	-9%	18.3	-8%	0%	23	87%	79%	79%
NSA1_R04 R	Residential (Single dwelling)	17.4	20.3	18.3	-10%	18.4	-9%	0%	23	88%	80%	80%
NSA1_R05 R	Residential (Condominium)	17.4	19.6	18.1	-8%	18.2	-7%	0%	23	85%	79%	79%
NSA1_R06 R	Residential (Townhouse)	17.4	20.2	18.3	-9%	18.4	-9%	0%	23	88%	80%	80%
NSA1_R07 R	Residential (Townhouse)	17.4	20.4	18.4	-10%	18.4	-10%	0%	23	89%	80%	80%
NSA1_R08 R	Residential (Townhouse)	17.4	20.7	18.5	-11%	18.5	-10%	0%	23	90%	80%	80%
NSA1_R09 R	Residential (Townhouse)	17.4	20.6	18.5	-11%	18.5	-10%	0%	23	90%	80%	80%
NSA1_R10 R	Residential (Townhouse)	17.4	20.7	18.5	-11%	18.5	-11%	0%	23	90%	80%	81%
NSA1_R11 R	Residential (Townhouse)	17.4	20.4	18.4	-10%	18.4	-10%	0%	23	89%	80%	80%
NSA1_R12 R	Residential (Townhouse)	17.4	19.9	18.2	-9%	18.3	-8%	0%	23	87%	79%	79%
NSA1_R13 R	Residential (Single dwelling)	17.4	20.1	18.3	-9%	18.3	-9%	0%	23	87%	79%	80%
NSA1_R14 R	Residential (Single dwelling)	17.4	19.8	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA1_R15 R	Residential (Townhouse)	17.4	20.3	18.4	-10%	18.4	-9%	0%	23	88%	80%	80%
NSA1_R16 R	Residential (Townhouse)	17.4	20.0	18.3	-9%	18.3	-9%	0%	23	87%	79%	80%
NSA1_R17 R	Residential (Townhouse)	17.4	19.4	18.0	-7%	18.1	-7%	0%	23	84%	78%	79%
NSA1_R18 R	Residential (Townhouse)	17.4	20.1	18.3	-9%	18.3	-9%	0%	23	87%	79%	80%
NSA1_R19 R	Residential (Townhouse)	17.4	20.2	18.3	-9%	18.4	-9%	0%	23	88%	80%	80%
NSA1_R20 R	Residential (Single dwelling)	17.4	19.1	18.0	-6%	18.0	-6%	0%	23	83%	78%	78%
NSA1_R21 R	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.2	-7%	0%	23	85%	79%	79%
NSA1_R22 R	Residential (Single dwelling)	17.4	19.2	18.0	-6%	18.0	-6%	0%	23	84%	78%	78%
NSA1_R23 R	Residential (Townhouse)	17.4	19.3	18.0	-7%	18.0	-6%	0%	23	84%	78%	78%
NSA1_R24 R	Residential (Townhouse)	17.4	19.1	17.9	-6%	18.0	-6%	0%	23	83%	78%	78%
NSA1_R25 R	Residential (Townhouse)	17.4	18.8	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA1_R26 R	Residential (Townhouse)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	80%	77%	77%
NSA1_R27 R	Residential (Townhouse)	17.4	18.9	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA1_R28 R	Residential (Townhouse)	17.4	19.6	18.1	-8%	18.1	-7%	0%	23	85%	79%	79%
NSA1_R29 R	Residential (Single dwelling)	17.4	18.9	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA1_R30 R	Residential (Single dwelling)	17.4	19.1	17.9	-6%	18.0	-6%	0%	23	83%	78%	78%
NSA1_R31 R	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.2	-7%	0%	23	85%	79%	79%
NSA1_R32 R	Residential (Single dwelling)	17.4	19.4	18.1	-7%	18.1	-7%	0%	23	85%	79%	79%
NSA1_R33 R	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA1_R34 R	Residential (Single dwelling)	17.4	19.5	18.1	-7%	18.1	-7%	0%	23	85%	79%	79%
	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.2	-7%	0%	23	85%	79%	79%
_	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.2	-8%	0%	23	85%	79%	79%
_	Residential (Single dwelling)	17.4	19.9	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
_	Residential (Single dwelling)	17.4	20.0	18.3	-9%	18.3	-9%	0%	23	87%	79%	80%
	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.2	-7%	0%	23	85%	79%	79%
_	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.2	-8%	0%	23	86%	79%	79%
_	Residential (Single dwelling)	17.4	19.8	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
_	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.2	-7%	0%	23	85%	79%	79%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	Annual Average Concentration (µg/m³)	Annual Average Concentration (µg/m³)	% change from Existing Conditions	Annual Average Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1_R43	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA1_R44	Residential (Single dwelling)	17.4	19.4	18.0	-7%	18.1	-7%	0%	23	84%	78%	79%
NSA2_R01	Residential (Single dwelling)	17.4	19.8	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R02	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R03	Residential (Single dwelling)	17.4	19.9	18.2	-9%	18.3	-8%	0%	23	86%	79%	79%
NSA2_R04	Residential (Single dwelling)	17.4	19.7	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R05	Residential (Single dwelling)	17.4	20.1	18.3	-9%	18.3	-9%	0%	23	88%	80%	80%
NSA2_R06	Residential (Single dwelling)	17.4	19.9	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R07	Residential (Townhouse)	17.4	19.8	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R08	Residential (Townhouse)	17.4	19.6	18.1	-8%	18.2	-7%	0%	23	85%	79%	79%
NSA2_R09	Residential (Townhouse)	17.4	19.8	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R10	Residential (Single dwelling)	17.4	20.2	18.3	-9%	18.4	-9%	0%	23	88%	80%	80%
NSA2_R11	Residential (Single dwelling)	17.4	20.3	18.3	-10%	18.4	-9%	0%	23	88%	80%	80%
NSA2_R12	Residential (Single dwelling)	17.4	20.3	18.3	-10%	18.4	-9%	0%	23	88%	80%	80%
NSA2_R13	Residential (Townhouse)	17.4	19.7	18.1	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R14	Residential (Townhouse)	17.4	19.8	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R15	Residential (Single dwelling)	17.4	19.8	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R16	Residential (Single dwelling)	17.4	19.9	18.2	-9%	18.3	-8%	0%	23	87%	79%	79%
NSA2_R17	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R18	Residential (Single dwelling)	17.4	19.3	18.0	-7%	18.1	-6%	0%	23	84%	78%	79%
NSA2_R19	Residential (Single dwelling)	17.4	19.9	18.2	-8%	18.2	-8%	0%	23	86%	79%	79%
NSA2_R20	Residential (Single dwelling)	17.4	20.0	18.2	-9%	18.3	-9%	0%	23	87%	79%	79%
NSA2_R21	Residential (Townhouse)	17.4	20.1	18.3	-9%	18.3	-9%	0%	23	88%	79%	79%
NSA2_R22	Residential (Single dwelling)	17.4	19.2	18.0	-6%	18.0	-6%	0%	23	83%	78%	78%
NSA2_R23	Residential (Single dwelling)	17.4	19.5	18.1	-7%	18.1	-7%	0%	23	85%	79%	79%
NSA2_R24	Residential (Single dwelling)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	81%	77%	77%
NSA2_R25	Residential (Townhouse)	17.4	18.2	17.7	-3%	17.7	-3%	0%	23	79%	77%	77%
NSA2_R26	Residential (Townhouse)	17.4	18.1	17.6	-2%	17.6	-2%	0%	23	79%	77%	77%
NSA2_R27	Residential (Single dwelling)	17.4	18.2	17.7	-3%	17.7	-3%	0%	23	79%	77%	77%
NSA2_R28	Residential (Single dwelling)	17.4	18.4	17.8	-3%	17.8	-3%	0%	23	80%	77%	77%
NSA2_R29	Residential (Single dwelling)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA2_R30	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA2_R31	Residential (Single dwelling)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA2_R32	Residential (Single dwelling)	17.4	18.4	17.7	-3%	17.8	-3%	0%	23	80%	77%	77%
NSA2_R33	Residential (Single dwelling)	17.4	18.3	17.7	-3%	17.7	-3%	0%	23	79%	77%	77%
NSA2_R34	Residential (Single dwelling)	17.4	18.2	17.7	-3%	17.7	-3%	0%	23	79%	77%	77%
NSA3_R01	Residential (Single dwelling)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	80%	77%	77%
NSA3_R02	Residential (Single dwelling)	17.4	18.4	17.8	-4%	17.8	-3%	0%	23	80%	77%	77%
NSA3_R03	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA3_R04	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-5%	0%	23	82%	78%	78%
NSA3_R05	Residential (Single dwelling)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA3_R06	Residential (Single dwelling)	17.4	18.0	17.6	-2%	17.6	-2%	0%	23	78%	77%	77%
NSA4_R01	Residential (Single dwelling)	17.4	18.7	17.9	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA4_R02	Residential (Single dwelling)	17.4	18.3	17.8	-3%	17.8	-3%	0%	23	80%	77%	77%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	Annual Average Concentration (µg/m³)	Annual Average Concentration (µg/m³)	% change from Existing Conditions	Annual Average Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4_R03	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA4 R04	Residential (Single dwelling)	17.4	18.3	17.7	-3%	17.7	-3%	0%	23	79%	77%	77%
NSA4 R05	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.8	-4%	0%	23	81%	78%	78%
NSA5 R01	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA5_R02	Residential (Single dwelling)	17.4	18.3	17.8	-3%	17.8	-3%	0%	23	80%	77%	77%
NSA6_R01	Residential (Single dwelling)	17.4	19.3	18.2	-6%	18.2	-6%	0%	23	84%	79%	79%
NSA6 R02	Residential (Single dwelling)	17.4	19.6	18.3	-7%	18.4	-6%	1%	23	85%	79%	80%
NSA6_R03	Residential (Single dwelling)	17.4	19.6	18.3	-7%	18.5	-5%	1%	23	85%	79%	81%
 NSA6_R04	Residential (Single dwelling)	17.4	18.7	17.9	-4%	18.0	-4%	0%	23	81%	78%	78%
NSA6_R05	Residential (Single dwelling)	17.4	19.4	18.2	-6%	18.2	-6%	0%	23	84%	79%	79%
NSA6_R06	Residential (Single dwelling)	17.4	19.3	18.1	-6%	18.2	-6%	0%	23	84%	79%	79%
NSA7 R01	Residential (Single dwelling)	17.4	18.7	17.9	-4%	17.9	-4%	0%	23	81%	78%	78%
	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA8_R02	Residential (Single dwelling)	17.4	20.5	18.5	-10%	18.6	-9%	0%	23	89%	80%	81%
NSA8_R03	Residential (Single dwelling)	17.4	21.1	18.7	-11%	18.9	-10%	1%	23	92%	81%	82%
NSA8_R04	Residential (Single dwelling)	17.4	19.5	18.1	-7%	18.2	-7%	0%	23	85%	79%	79%
NSA8_R05	Residential (Single dwelling)	17.4	19.2	18.0	-6%	18.1	-6%	0%	23	83%	78%	79%
NSA8_R06	Residential (Single dwelling)	17.4	19.2	18.0	-6%	18.1	-6%	0%	23	84%	78%	79%
NSA8_R07	Residential (Single dwelling)	17.4	19.0	18.0	-5%	18.0	-5%	0%	23	83%	78%	78%
NSA8_R08	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-5%	0%	23	82%	78%	78%
NSA8_R09	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA8_R10	Residential (Single dwelling)	17.4	18.7	17.9	-4%	18.0	-4%	1%	23	81%	78%	78%
NSA8_R11	Residential (Single dwelling)	17.4	18.7	17.9	-5%	18.0	-4%	1%	23	81%	78%	78%
NSA8_R12	Residential (Single dwelling)	17.4	18.8	17.9	-5%	17.9	-4%	0%	23	82%	78%	78%
NSA8_R13	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA8_R14	Residential (Single dwelling)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	81%	77%	77%
NSA8_R15	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.9	-4%	0%	23	81%	77%	78%
NSA8_R16	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.9	-4%	0%	23	81%	77%	78%
NSA8_R17	Residential (Townhouse)	17.4	18.6	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA9_R01	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA9_R02	Residential (Single dwelling)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA9_R03	Residential (Single dwelling)	17.4	18.7	17.8	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA9_R04	Residential (Single dwelling)	17.4	18.7	17.8	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA9_R05	Residential (Single dwelling)	17.4	18.5	17.8	-4%	17.8	-4%	0%	23	81%	77%	77%
NSA9_R06	Residential (Single dwelling)	17.4	18.7	17.9	-5%	17.9	-4%	0%	23	81%	78%	78%
NSA9_R07	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.8	-4%	0%	23	81%	77%	78%
NSA9_R08	Residential (Single dwelling)	17.4	18.6	17.8	-4%	17.9	-4%	0%	23	81%	78%	78%
NSA9_R09	Residential (Single dwelling)	17.4	18.7	17.8	-5%	17.9	-5%	0%	23	81%	78%	78%
NSA9_R10	Residential (Single dwelling)	17.4	18.8	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA9_R11	Residential (Single dwelling)	17.4	18.8	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA9_R13	Residential (Single dwelling)	17.4	18.7	17.9	-5%	17.9	-4%	0%	23	82%	78%	78%
NSA9_R14	Residential (Single dwelling)	17.4	18.8	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA9_R15	Residential (Single dwelling)	17.4	20.5	18.5	-10%	18.5	-10%	0%	23	89%	80%	80%
NSA10_R01	Residential (Single dwelling)	17.4	18.9	17.9	-5%	18.0	-5%	0%	23	82%	78%	78%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	Annual Average Concentration (µg/m³)	Annual Average Concentration (µg/m³)	% change from Existing Conditions	Annual Average Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA10_R02	Residential (Single dwelling)	17.4	19.2	18.0	-6%	18.1	-6%	0%	23	83%	78%	79%
NSA10_R03	Residential (Single dwelling)	17.4	19.0	17.9	-5%	18.0	-5%	0%	23	82%	78%	78%
NSA10_R04	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-5%	1%	23	82%	78%	78%
NSA10_R05	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-4%	0%	23	82%	78%	78%
NSA10_R06	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-4%	0%	23	82%	78%	78%
NSA10_R07	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-4%	1%	23	82%	78%	78%
NSA10_R08	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-4%	1%	23	82%	78%	78%
NSA10_R09	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-4%	1%	23	82%	78%	78%
NSA10_R10	Residential (Single dwelling)	17.4	18.8	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA10_R11	Residential (Single dwelling)	17.4	18.8	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA10_R12	Residential (Single dwelling)	17.4	18.8	17.9	-5%	18.0	-4%	0%	23	82%	78%	78%
NSA10_R13	Residential (Single dwelling)	17.4	18.8	17.9	-5%	17.9	-5%	0%	23	82%	78%	78%
NSA10_R14	Residential (Single dwelling)	17.4	21.1	18.6	-11%	18.7	-11%	0%	23	92%	81%	81%
NSA10_R15	Residential (Single dwelling)	17.4	20.5	18.5	-10%	18.5	-10%	0%	23	89%	80%	80%
NSA10_R16	Residential (Single dwelling)	17.4	25.0	20.0	-20%	20.0	-20%	0%	23	109%	87%	87%
NSA11_R01	Residential (Single dwelling)	17.4	20.4	18.3	-10%	18.4	-10%	0%	23	89%	80%	80%
NSA12_R01	Residential (Single dwelling)	17.4	19.8	18.1	-9%	18.1	-9%	0%	23	86%	79%	79%
NSA12_R02	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.1	-8%	0%	23	86%	79%	79%
NSA12_R03	Residential (Single dwelling)	17.4	19.8	18.1	-9%	18.1	-8%	0%	23	86%	79%	79%
NSA12_R04	Residential (Single dwelling)	17.4	19.2	17.9	-7%	18.0	-7%	0%	23	84%	78%	78%
NSA12_R05	Residential (Single dwelling)	17.4	19.2	17.9	-7%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R06	Residential (Single dwelling)	17.4	19.2	17.9	-7%	18.0	-6%	0%	23	83%	78%	78%
NSA12_R07	Residential (Single dwelling)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R08	Residential (Single dwelling)	17.4	22.0	18.8	-15%	18.8	-14%	0%	23	96%	82%	82%
NSA12_R09	Residential (Single dwelling)	17.4	20.7	18.4	-11%	18.4	-11%	0%	23	90%	80%	80%
NSA12_R10	Residential (Single dwelling)	17.4	21.7	18.7	-14%	18.7	-14%	0%	23	94%	81%	81%
NSA12_R11	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.1	-8%	0%	23	86%	79%	79%
NSA12_R12	Residential (Single dwelling)	17.4	19.7	18.1	-8%	18.1	-8%	0%	23	86%	79%	79%
NSA12_R13	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.1	-8%	0%	23	85%	79%	79%
NSA12_R14	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.1	-8%	0%	23	85%	79%	79%
NSA12_R15	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.1	-8%	0%	23	85%	79%	79%
NSA12_R16	Residential (Single dwelling)	17.4	21.3	18.6	-13%	18.6	-13%	0%	23	93%	81%	81%
NSA12_R17	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.1	-8%	0%	23	85%	79%	79%
NSA12_R18	Residential (Single dwelling)	17.4	19.6	18.1	-8%	18.1	-8%	0%	23	85%	79%	79%
NSA12_R19	Residential (Townhouse)	17.4	20.7	18.4	-11%	18.4	-11%	0%	23	90%	80%	80%
NSA12_R20	Residential (Townhouse)	17.4	23.2	19.1	-18%	19.2	-18%	0%	23	101%	83%	83%
NSA12_R21	Residential (Townhouse)	17.4	22.4	18.9	-16%	18.9	-16%	0%	23	97%	82%	82%
NSA12_R22	Residential (Townhouse)	17.4	20.8	18.4	-12%	18.4	-11%	0%	23	90%	80%	80%
NSA12_R23	Residential (Townhouse)	17.4	19.3	18.0	-7%	18.0	-7%	0%	23	84%	78%	78%
NSA12_R24	Residential (Townhouse)	17.4	19.7	18.1	-8%	18.1	-8%	0%	23	86%	79%	79%
NSA12_R25	Residential (Single dwelling)	17.4	20.4	18.3	-10%	18.3	-10%	0%	23	89%	80%	80%
NSA12_R26	Residential (Single dwelling)	17.4	20.0	18.2	-9%	18.2	-9%	0%	23	87%	79%	79%
NSA12_R27	Residential (Single dwelling)	17.4	19.9	18.2	-9%	18.2	-9%	0%	23	87%	79%	79%
NSA12_R28	Residential (Single dwelling)	17.4	19.9	18.2	-9%	18.2	-9%	0%	23	87%	79%	79%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)		01100		% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m <sup>3</sup>						
NSA12_R29	Residential (Single dwelling)	17.4	20.5	18.3	-11%	18.3	-10%	0%	23	89%	80%	80%
NSA12_R30	Residential (Single dwelling)	17.4	21.4	18.6	-13%	18.6	-13%	0%	23	93%	81%	81%
NSA12_R31	Residential (Single dwelling)	17.4	22.8	19.0	-17%	19.1	-17%	0%	23	99%	83%	83%
NSA12_R32	Residential (Single dwelling)	17.4	23.5	19.2	-18%	19.2	-18%	0%	23	102%	84%	84%
NSA12_R33	Residential (Single dwelling)	17.4	19.4	18.0	-7%	18.0	-7%	0%	23	84%	78%	78%
NSA12_R34	Residential (Townhouse)	17.4	19.0	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R35	Residential (Townhouse)	17.4	19.0	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R36	Residential (Townhouse)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R37	Residential (Townhouse)	17.4	19.0	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R38	Residential (Townhouse)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R39	Residential (Townhouse)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R40	Residential (Single dwelling)	17.4	18.8	17.8	-5%	17.8	-5%	0%	23	82%	78%	78%
NSA12_R41	Residential (Single dwelling)	17.4	19.2	17.9	-6%	18.0	-6%	0%	23	83%	78%	78%
NSA12_R42	Residential (Single dwelling)	17.4	19.2	17.9	-6%	18.0	-6%	0%	23	83%	78%	78%
NSA12_R43	Residential (Single dwelling)	17.4	19.1	17.9	-6%	18.0	-6%	0%	23	83%	78%	78%
NSA12_R44	Residential (Single dwelling)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R45	Residential (Single dwelling)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R46	Residential (Single dwelling)	17.4	19.0	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R47	Residential (Single dwelling)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R48	Residential (Single dwelling)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R49	Residential (Townhouse)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
NSA12_R50	Residential (Single dwelling)	17.4	23.4	19.2	-18%	19.2	-18%	0%	23	102%	83%	84%
NSA12_R51	Residential (Single dwelling)	17.4	23.5	19.2	-18%	19.3	-18%	0%	23	102%	84%	84%
NSA12_R52	Residential (Single dwelling)	17.4	23.0	19.1	-17%	19.1	-17%	0%	23	100%	83%	83%
NSA12_R53	Residential (Single dwelling)	17.4	23.7	19.3	-19%	19.3	-18%	0%	23	103%	84%	84%
NSA12_R54	Residential (Single dwelling)	17.4	23.6	19.3	-18%	19.3	-18%	0%	23	103%	84%	84%
NSA12_R55	Residential (Single dwelling)	17.4	23.2	19.1	-17%	19.2	-17%	0%	23	101%	83%	83%
NSA12 R56	Residential (Single dwelling)	17.4	23.6	19.3	-18%	19.3	-18%	0%	23	103%	84%	84%
NSA12_R57	Residential (Single dwelling)	17.4	23.8	19.3	-19%	19.4	-19%	0%	23	104%	84%	84%
NSA12_R58	Residential (Single dwelling)	17.4	23.9	19.3	-19%	19.4	-19%	0%	23	104%	84%	84%
	Residential (Single dwelling)	17.4	23.9	19.4	-19%	19.4	-19%	0%	23	104%	84%	84%
	Residential (Single dwelling)	17.4	23.9	19.4	-19%	19.4	-19%	0%	23	104%	84%	84%
	Residential (Single dwelling)	17.4	22.6	19.0	-16%	19.0	-16%	0%	23	98%	82%	83%
	Residential (Single dwelling)	17.4	19.2	17.9	-6%	18.0	-6%	0%	23	83%	78%	78%
	Residential (Single dwelling)	17.4	19.1	17.9	-6%	17.9	-6%	0%	23	83%	78%	78%
 NSA12_R64	Residential (Single dwelling)	17.4	19.2	17.9	-6%	18.0	-6%	0%	23	83%	78%	78%
_	Residential (Single dwelling)	17.4	19.2	17.9	-6%	18.0	-6%	0%	23	83%	78%	78%
Note:	( 33)	I			1	l .	ı	·		1	l .	l .

Note

For comparison purposes, the 2025 CAAQS (23 µg/m³) applicable to future conditions (2041) has also been applied to existing conditions (2018). Exceedances of the NO<sub>2</sub> CAAQS for existing conditions, therefore, is not reflective of the current conditions where there is no AAQC for the annual averaging period.

Table B-9 Three-year average 1-hour 99th Percentile SO<sub>2</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor		Existing Conditions (2018)				Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	1-hr 99th Percentile Concentration	1-hr 99th Percentile Concentration	% change from Existing Conditions	1-hr 99th Percentile Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m³						
_	Residential (Single dwelling)	6.3	6.12	6.15	0%	6.15	0%	0%	170	4%	4%	4%
NSA1_R02	Residential (Single dwelling)	6.3	6.12	6.14	0%	6.15	0%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.11	6.13	0%	6.14	0%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.13	6.16	0%	6.16	1%	0%	170	4%	4%	4%
NSA1_R05	Residential (Condominium)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA1_R06	Residential (Townhouse)	6.3	6.11	6.14	0%	6.14	1%	0%	170	4%	4%	4%
_	Residential (Townhouse)	6.3	6.11	6.14	0%	6.14	1%	0%	170	4%	4%	4%
NSA1_R08	Residential (Townhouse)	6.3	6.12	6.16	1%	6.16	1%	0%	170	4%	4%	4%
NSA1_R09	Residential (Townhouse)	6.3	6.12	6.16	1%	6.16	1%	0%	170	4%	4%	4%
NSA1_R10	Residential (Townhouse)	6.3	6.13	6.16	1%	6.16	1%	0%	170	4%	4%	4%
NSA1_R11	Residential (Townhouse)	6.3	6.11	6.15	1%	6.15	1%	0%	170	4%	4%	4%
NSA1_R12	Residential (Townhouse)	6.3	6.10	6.12	0%	6.13	0%	0%	170	4%	4%	4%
NSA1_R13	Residential (Single dwelling)	6.3	6.10	6.13	0%	6.13	0%	0%	170	4%	4%	4%
NSA1_R14	Residential (Single dwelling)	6.3	6.09	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA1_R15	Residential (Townhouse)	6.3	6.11	6.14	0%	6.14	1%	0%	170	4%	4%	4%
NSA1_R16	Residential (Townhouse)	6.3	6.10	6.13	0%	6.13	0%	0%	170	4%	4%	4%
NSA1_R17	Residential (Townhouse)	6.3	6.08	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA1_R18	Residential (Townhouse)	6.3	6.12	6.14	0%	6.15	0%	0%	170	4%	4%	4%
NSA1_R19	Residential (Townhouse)	6.3	6.12	6.15	0%	6.15	0%	0%	170	4%	4%	4%
NSA1_R20	Residential (Single dwelling)	6.3	6.08	6.09	0%	6.10	0%	0%	170	4%	4%	4%
NSA1_R21	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA1_R22	Residential (Single dwelling)	6.3	6.08	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA1_R23	Residential (Townhouse)	6.3	6.08	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA1_R24	Residential (Townhouse)	6.3	6.07	6.09	0%	6.09	0%	0%	170	4%	4%	4%
NSA1_R25	Residential (Townhouse)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA1_R26	Residential (Townhouse)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA1_R27	Residential (Townhouse)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA1_R28	Residential (Townhouse)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA1_R29	Residential (Single dwelling)	6.3	6.06	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA1_R30	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA1_R31	Residential (Single dwelling)	6.3	6.09	6.11	0%	6.11	0%	0%	170	4%	4%	4%
NSA1_R32	Residential (Single dwelling)	6.3	6.08	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA1_R33	Residential (Single dwelling)	6.3	6.09	6.11	0%	6.11	0%	0%	170	4%	4%	4%
NSA1_R34	Residential (Single dwelling)	6.3	6.09	6.11	0%	6.12	0%	0%	170	4%	4%	4%
NSA1_R35	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA1_R36	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.09	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA1_R38	Residential (Single dwelling)	6.3	6.10	6.13	0%	6.13	0%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.13	0%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.09	6.11	0%	6.12	0%	0%	170	4%	4%	4%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-E	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	1-hr 99th Percentile Concentration (µg/m³)	1-hr 99th Percentile Concentration (µg/m³)	% change from Existing Conditions	1-hr 99th Percentile Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R42	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.08	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA2_R01	Residential (Single dwelling)	6.3	6.11	6.13	0%	6.13	0%	0%	170	4%	4%	4%
NSA2_R02	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.13	0%	0%	170	4%	4%	4%
NSA2_R03	Residential (Single dwelling)	6.3	6.11	6.13	0%	6.13	0%	0%	170	4%	4%	4%
NSA2_R04	Residential (Single dwelling)	6.3	6.09	6.11	0%	6.12	0%	0%	170	4%	4%	4%
NSA2_R05	Residential (Single dwelling)	6.3	6.11	6.13	0%	6.14	0%	0%	170	4%	4%	4%
NSA2_R06	Residential (Single dwelling)	6.3	6.09	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA2_R07	Residential (Townhouse)	6.3	6.11	6.13	0%	6.13	0%	0%	170	4%	4%	4%
NSA2_R08	Residential (Townhouse)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA2_R09	Residential (Townhouse)	6.3	6.11	6.13	0%	6.13	0%	0%	170	4%	4%	4%
NSA2_R10	Residential (Single dwelling)	6.3	6.11	6.14	0%	6.14	1%	0%	170	4%	4%	4%
NSA2_R11	Residential (Single dwelling)	6.3	6.11	6.14	0%	6.14	1%	0%	170	4%	4%	4%
NSA2_R12	Residential (Single dwelling)	6.3	6.11	6.14	0%	6.14	1%	0%	170	4%	4%	4%
NSA2_R13	Residential (Townhouse)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA2_R14	Residential (Townhouse)	6.3	6.11	6.13	0%	6.13	0%	0%	170	4%	4%	4%
NSA2_R15	Residential (Single dwelling)	6.3	6.11	6.13	0%	6.13	0%	0%	170	4%	4%	4%
NSA2_R16	Residential (Single dwelling)	6.3	6.11	6.13	0%	6.14	0%	0%	170	4%	4%	4%
NSA2_R17	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.13	0%	0%	170	4%	4%	4%
NSA2_R18	Residential (Single dwelling)	6.3	6.08	6.10	0%	6.11	0%	0%	170	4%	4%	4%
NSA2_R19	Residential (Single dwelling)	6.3	6.09	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA2_R20	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA2_R21	Residential (Townhouse)	6.3	6.11	6.14	0%	6.14	0%	0%	170	4%	4%	4%
NSA2_R22	Residential (Single dwelling)	6.3	6.07	6.09	0%	6.09	0%	0%	170	4%	4%	4%
NSA2_R23	Residential (Single dwelling)	6.3	6.08	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA2_R24	Residential (Single dwelling)	6.3	6.06	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA2_R25	Residential (Townhouse)	6.3	6.03	6.04	0%	6.04	0%	0%	170	4%	4%	4%
NSA2_R26	Residential (Townhouse)	6.3	6.03	6.03	0%	6.04	0%	0%	170	4%	4%	4%
NSA2_R27	Residential (Single dwelling)	6.3	6.03	6.04	0%	6.05	0%	0%	170	4%	4%	4%
NSA2_R28	Residential (Single dwelling)	6.3	6.04	6.05	0%	6.06	0%	0%	170	4%	4%	4%
NSA2_R29	Residential (Single dwelling)	6.3	6.04	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA2_R30	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.07	0%	0%	170	4%	4%	4%
NSA2_R31	Residential (Single dwelling)	6.3	6.04	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA2_R32	Residential (Single dwelling)	6.3	6.04	6.05	0%	6.05	0%	0%	170	4%	4%	4%
NSA2_R33	Residential (Single dwelling)	6.3	6.03	6.05	0%	6.05	0%	0%	170	4%	4%	4%
NSA2_R34	Residential (Single dwelling)	6.3	6.03	6.04	0%	6.05	0%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.04	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA3_R02	Residential (Single dwelling)	6.3	6.04	6.06	0%	6.06	0%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.07	0%	0%	170	4%	4%	4%
NSA3_R04	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA3_R05	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA3_R06	Residential (Single dwelling)	6.3	6.03	6.04	0%	6.04	0%	0%	170	4%	4%	4%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-E	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	1-hr 99th Percentile Concentration	1-hr 99th Percentile Concentration	% change from Existing Conditions	1-hr 99th Percentile Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	(μg/m³) 6.3	(µg/m³) 6.05	(μg/m³) 6.08	0%	μg/m³ 6.09	1%	0%	170	4%	4%	4%
NSA4_R02	Residential (Single dwelling)	6.3	6.04	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA4_R03	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA4_R04	Residential (Single dwelling)	6.3	6.04	6.05	0%	6.05	0%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.09	0%	0%	170	4%	4%	4%
NSA5_R01	Residential (Single dwelling)	6.3	6.05	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA5_R02	Residential (Single dwelling)	6.3	6.04	6.05	0%	6.06	0%	0%	170	4%	4%	4%
NSA6 R01	Residential (Single dwelling)	6.3	6.08	6.13	1%	6.13	1%	0%	170	4%	4%	4%
NSA6 R02	Residential (Single dwelling)	6.3	6.09	6.14	1%	6.14	1%	0%	170	4%	4%	4%
NSA6_R03	Residential (Single dwelling)	6.3	6.09	6.13	1%	6.15	1%	0%	170	4%	4%	4%
NSA6_R04	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.09	0%	0%	170	4%	4%	4%
NSA6_R05	Residential (Single dwelling)	6.3	6.08	6.11	1%	6.12	1%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.09	6.13	1%	6.14	1%	0%	170	4%	4%	4%
NSA7 R01	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
 NSA8_R01	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
 NSA8_R02	Residential (Single dwelling)	6.3	6.12	6.16	1%	6.17	1%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.15	6.21	1%	6.22	1%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.09	6.12	1%	6.12	1%	0%	170	4%	4%	4%
NSA8_R05	Residential (Single dwelling)	6.3	6.08	6.10	0%	6.11	0%	0%	170	4%	4%	4%
NSA8_R06	Residential (Single dwelling)	6.3	6.08	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA8_R07	Residential (Single dwelling)	6.3	6.07	6.09	0%	6.09	0%	0%	170	4%	4%	4%
NSA8_R08	Residential (Single dwelling)	6.3	6.06	6.07	0%	6.08	0%	0%	170	4%	4%	4%
NSA8_R09	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA8_R10	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA8_R11	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA8_R12	Residential (Single dwelling)	6.3	6.06	6.07	0%	6.08	0%	0%	170	4%	4%	4%
NSA8_R13	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA8_R14	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA8_R15	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA8_R16	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA8_R17	Residential (Townhouse)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA9_R01	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.07	0%	0%	170	4%	4%	4%
NSA9_R02	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA9_R03	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA9_R04	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA9_R05	Residential (Single dwelling)	6.3	6.04	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA9_R06	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA9_R07	Residential (Single dwelling)	6.3	6.04	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA9_R08	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA9_R09	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.06	0%	0%	170	4%	4%	4%
NSA9_R10	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.07	0%	0%	170	4%	4%	4%
NSA9_R11	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.07	0%	0%	170	4%	4%	4%
NSA9_R13	Residential (Single dwelling)	6.3	6.05	6.06	0%	6.07	0%	0%	170	4%	4%	4%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-E	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration (µg/m³)	1-hr 99th Percentile Concentration (µg/m³)	1-hr 99th Percentile Concentration (µg/m³)	% change from Existing Conditions	1-hr 99th Percentile Concentration µg/m³	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R14	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA9 R15	Residential (Single dwelling)	6.3	6.10	6.13	0%	6.13	1%	0%	170	4%	4%	4%
NSA10 R01	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA10 R02	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA10_R03	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.08	0%	0%	170	4%	4%	4%
NSA10_R04	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA10_R05	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA10_R06	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA10_R07	Residential (Single dwelling)	6.3	6.05	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA10_R08	Residential (Single dwelling)	6.3	6.06	6.07	0%	6.08	0%	0%	170	4%	4%	4%
NSA10_R09	Residential (Single dwelling)	6.3	6.06	6.07	0%	6.08	0%	0%	170	4%	4%	4%
NSA10_R10	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA10_R11	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA10_R12	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA10_R13	Residential (Single dwelling)	6.3	6.06	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA10_R14	Residential (Single dwelling)	6.3	6.20	6.27	1%	6.27	1%	0%	170	4%	4%	4%
NSA10_R15	Residential (Single dwelling)	6.3	6.17	6.22	1%	6.22	1%	0%	170	4%	4%	4%
NSA10_R16	Residential (Single dwelling)	6.3	6.34	6.44	2%	6.44	2%	0%	170	4%	4%	4%
NSA11_R01	Residential (Single dwelling)	6.3	6.12	6.14	0%	6.14	0%	0%	170	4%	4%	4%
NSA12_R01	Residential (Single dwelling)	6.3	6.11	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA12_R02	Residential (Single dwelling)	6.3	6.10	6.11	0%	6.12	0%	0%	170	4%	4%	4%
NSA12_R03	Residential (Single dwelling)	6.3	6.10	6.12	0%	6.12	0%	0%	170	4%	4%	4%
NSA12_R04	Residential (Single dwelling)	6.3	6.08	6.09	0%	6.09	0%	0%	170	4%	4%	4%
NSA12_R05	Residential (Single dwelling)	6.3	6.08	6.09	0%	6.09	0%	0%	170	4%	4%	4%
NSA12_R06	Residential (Single dwelling)	6.3	6.08	6.09	0%	6.09	0%	0%	170	4%	4%	4%
NSA12_R07	Residential (Single dwelling)	6.3	6.08	6.09	0%	6.09	0%	0%	170	4%	4%	4%
NSA12_R08	Residential (Single dwelling)	6.3	6.21	6.23	0%	6.24	1%	0%	170	4%	4%	4%
NSA12_R09	Residential (Single dwelling)	6.3	6.15	6.17	0%	6.17	0%	0%	170	4%	4%	4%
NSA12_R10	Residential (Single dwelling)	6.3	6.19	6.22	0%	6.22	0%	0%	170	4%	4%	4%
NSA12_R11	Residential (Single dwelling)	6.3	6.10	6.11	0%	6.12	0%	0%	170	4%	4%	4%
NSA12_R12	Residential (Single dwelling)	6.3	6.10	6.11	0%	6.12	0%	0%	170	4%	4%	4%
NSA12_R13	Residential (Single dwelling)	6.3	6.10	6.11	0%	6.11	0%	0%	170	4%	4%	4%
NSA12_R14	Residential (Single dwelling)	6.3	6.09	6.11	0%	6.11	0%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.09	6.10	0%	6.11	0%	0%	170	4%	4%	4%
NSA12_R16	Residential (Single dwelling)	6.3	6.18	6.20	0%	6.20	0%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.09	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA12_R18	Residential (Single dwelling)	6.3	6.09	6.10	0%	6.10	0%	0%	170	4%	4%	4%
NSA12_R19	Residential (Townhouse)	6.3	6.15	6.17	0%	6.18	0%	0%	170	4%	4%	4%
	Residential (Townhouse)	6.3	6.27	6.30	1%	6.31	1%	0%	170	4%	4%	4%
NSA12_R21	Residential (Townhouse)	6.3	6.23	6.26	0%	6.26	0%	0%	170	4%	4%	4%
NSA12_R22	Residential (Townhouse)	6.3	6.16	6.18	0%	6.18	0%	0%	170	4%	4%	4%
NSA12_R23	Residential (Townhouse)	6.3	6.09	6.10	0%	6.11	0%	0%	170	4%	4%	4%
NSA12_R24	Residential (Townhouse)	6.3	6.11	6.13	0%	6.13	0%	0%	170	4%	4%	4%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-E	3uild (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	1-hr 99th Percentile Concentration	1-hr 99th Percentile Concentration	% change from Existing Conditions	1-hr 99th Percentile Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m <sup>3</sup>						
NSA12_R25	Residential (Single dwelling)	6.3	6.14	6.16	0%	6.16	0%	0%	170	4%	4%	4%
NSA12_R26	Residential (Single dwelling)	6.3	6.12	6.14	0%	6.14	0%	0%	170	4%	4%	4%
NSA12_R27	Residential (Single dwelling)	6.3	6.12	6.14	0%	6.14	0%	0%	170	4%	4%	4%
NSA12_R28	Residential (Single dwelling)	6.3	6.12	6.14	0%	6.14	0%	0%	170	4%	4%	4%
NSA12_R29	Residential (Single dwelling)	6.3	6.15	6.17	0%	6.17	0%	0%	170	4%	4%	4%
NSA12_R30	Residential (Single dwelling)	6.3	6.19	6.22	0%	6.22	1%	0%	170	4%	4%	4%
NSA12_R31	Residential (Single dwelling)	6.3	6.25	6.29	1%	6.29	1%	0%	170	4%	4%	4%
NSA12_R32	Residential (Single dwelling)	6.3	6.28	6.32	1%	6.32	1%	0%	170	4%	4%	4%
NSA12_R33	Residential (Single dwelling)	6.3	6.10	6.11	0%	6.11	0%	0%	170	4%	4%	4%
NSA12_R34	Residential (Townhouse)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R35	Residential (Townhouse)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R36	Residential (Townhouse)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R37	Residential (Townhouse)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R38	Residential (Townhouse)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R39	Residential (Townhouse)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R40	Residential (Single dwelling)	6.3	6.06	6.07	0%	6.07	0%	0%	170	4%	4%	4%
NSA12_R41	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R42	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.09	0%	0%	170	4%	4%	4%
NSA12_R43	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R44	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R45	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R46	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12 R47	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12_R48	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
NSA12 R49	Residential (Townhouse)	6.3	6.07	6.08	0%	6.08	0%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.27	6.32	1%	6.32	1%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.28	6.32	1%	6.32	1%	0%	170	4%	4%	4%
NSA12_R52	Residential (Single dwelling)	6.3	6.25	6.29	1%	6.29	1%	0%	170	4%	4%	4%
NSA12_R53	Residential (Single dwelling)	6.3	6.28	6.32	1%	6.32	1%	0%	170	4%	4%	4%
NSA12_R54	Residential (Single dwelling)	6.3	6.27	6.31	1%	6.32	1%	0%	170	4%	4%	4%
NSA12_R55	Residential (Single dwelling)	6.3	6.25	6.29	1%	6.29	1%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.27	6.31	1%	6.31	1%	0%	170	4%	4%	4%
NSA12_R57	Residential (Single dwelling)	6.3	6.28	6.32	1%	6.32	1%	0%	170	4%	4%	4%
NSA12_R58	Residential (Single dwelling)	6.3	6.28	6.32	1%	6.33	1%	0%	170	4%	4%	4%
NSA12_R59	Residential (Single dwelling)	6.3	6.28	6.32	1%	6.32	1%	0%	170	4%	4%	4%
NSA12 R60	Residential (Single dwelling)	6.3	6.28	6.32	1%	6.32	1%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.23	6.27	1%	6.27	1%	0%	170	4%	4%	4%
NSA12_R62	Residential (Single dwelling)	6.3	6.08	6.09	0%	6.09	0%	0%	170	4%	4%	4%
NSA12_R63	Residential (Single dwelling)	6.3	6.07	6.08	0%	6.09	0%	0%	170	4%	4%	4%
_	Residential (Single dwelling)	6.3	6.08	6.09	0%	6.09	0%	0%	170	4%	4%	4%
	Residential (Single dwelling)	6.3	6.08	6.09	0%	6.09	0%	0%	170	4%	4%	4%
Note:	rresidential (Single dwelling)	0.0	0.00	0.00	0 /0	0.00	0 /0	070	170	770	7/0	770

Note:

Concentrations are based on the 3 year (2015, 2016, and 2017) average of the 99th percentile of the SO<sub>2</sub> daily maximum 1-hour average concentrations.

Table B-10 24-hour Maximum SO<sub>2</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)		Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1_R01	Residential (Single dwelling)	5.3	5.1	5.11	0%	5.12	0%	0%	275	2%	2%	2%
NSA1_R02	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.12	0%	0%	275	2%	2%	2%
NSA1_R03	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA1_R04	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.12	1%	0%	275	2%	2%	2%
NSA1_R05	Residential (Condominium)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA1_R06	Residential (Townhouse)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA1_R07	Residential (Townhouse)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA1_R08	Residential (Townhouse)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA1_R09	Residential (Townhouse)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA1_R10	Residential (Townhouse)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA1_R11	Residential (Townhouse)	5.3	5.1	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA1_R12	Residential (Townhouse)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA1_R13	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA1_R14	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
NSA1_R15	Residential (Townhouse)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA1_R16	Residential (Townhouse)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA1_R17	Residential (Townhouse)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA1_R18	Residential (Townhouse)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA1_R19	Residential (Townhouse)	5.3	5.1	5.1	0%	5.12	1%	0%	275	2%	2%	2%
NSA1_R20	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.08	0%	0%	275	2%	2%	2%
NSA1_R21	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA1_R22	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.08	0%	0%	275	2%	2%	2%
NSA1_R23	Residential (Townhouse)	5.3	5.1	5.1	0%	5.08	0%	0%	275	2%	2%	2%
NSA1_R24	Residential (Townhouse)	5.3	5.1	5.1	0%	5.08	0%	0%	275	2%	2%	2%
NSA1_R25	Residential (Townhouse)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA1_R26	Residential (Townhouse)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
NSA1_R27	Residential (Townhouse)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA1_R28	Residential (Townhouse)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA1_R29	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA1_R30	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA1_R31	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA1_R32	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA1_R33	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA1_R34	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.09	0%	0%	275	2%	2%	2%
NSA1_R35	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA1_R36	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA1_R37	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
NSA1_R38	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
 NSA1_R39	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
 NSA1_R40	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
 NSA1_R41	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA1 R42	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R43	Residential (Single dwelling)	ξ.3	ξ.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
 NSA1_R44	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA2_R01	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA2_R02	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA2_R03	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA2_R04	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA2_R05	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA2_R06	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
NSA2_R07	Residential (Townhouse)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA2_R08	Residential (Townhouse)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA2_R09	Residential (Townhouse)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA2_R10	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA2_R11	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA2_R12	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
	Residential (Townhouse)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA2_R14	Residential (Townhouse)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA2_R15	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA2_R16	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.11	1%	0%	275	2%	2%	2%
NSA2_R17	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
NSA2_R18	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2% 2%
NSA2_R19	Residential (Single dwelling)	5.3 5.3	5.0 5.0	5.1 5.1	0% 0%	5.05 5.06	0%	0% 0%	275 275	2% 2%	2% 2%	2%
NSA2_R20	Residential (Single dwelling) Residential (Townhouse)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA2_R21 NSA2_R22	Residential (Fownhouse)  Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
NSA2_R22	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
NSA2 R24	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA2_R25	Residential (Townhouse)	5.3	5.0	5.0	0%	5.02	0%	0%	275	2%	2%	2%
	Residential (Townhouse)	5.3	5.0	5.0	0%	5.02	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.02	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA2_R29	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA2_R30	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA2_R32	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.02	0%	0%	275	2%	2%	2%
NSA2_R33	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.02	0%	0%	275	2%	2%	2%
NSA2_R34	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.02	0%	0%	275	2%	2%	2%
NSA3_R01	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA3_R02	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA3_R03	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA3_R04	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA3_R05	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA3_R06	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.02	0%	0%	275	2%	2%	2%
NSA4_R01	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R02	Residential (Single dwelling)	ξ.3	5.0	ξ.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA4_R03	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA4_R04	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA4_R05	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA5_R01	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA5_R02	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA6_R01	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA6_R02	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA6_R03	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.07	1%	0%	275	2%	2%	2%
NSA6_R04	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA6_R05	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA6_R06	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA7_R01	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA8_R01	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA8_R02	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA8_R03	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	1%	0%	275	2%	2%	2%
NSA8_R04	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
NSA8_R05	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA8_R06	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2% 2%
NSA8_R08	Residential (Single dwelling)	5.3 5.3	5.0 5.0	5.0 5.0	0%	5.03 5.03	0%	0% 0%	275 275	2% 2%	2% 2%	2%
NSA8_R09 NSA8_R10	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA8_R10	Residential (Single dwelling) Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA8_R12	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA8 R13	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA8 R14	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
	Residential (Townhouse)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R01	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R02	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R03	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R04	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R05	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R06	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R07	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R08	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R09	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R10	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R11	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R13	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA9_R14	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	-Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration μg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9_R15	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA10_R01	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.03	0%	0%	275	2%	2%	2%
NSA10_R02	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA10_R03	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA10_R04	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA10_R05	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA10_R06	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA10_R07	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA10_R08	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA10_R09	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA10_R10	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA10_R11	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA10_R12	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA10_R13	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.05	0%	0%	275	2%	2%	2%
NSA10_R14	Residential (Single dwelling)	5.3	5.1	5.1	1%	5.12	1%	0%	275	2%	2%	2%
NSA10_R15	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA10_R16	Residential (Single dwelling)	5.3	5.2	5.2	1%	5.22	1%	0%	275	2%	2%	2%
NSA11_R01	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA12_R02	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
NSA12_R03	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.06	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R05	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R07	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R08	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.08	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.11	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.06	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.06	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.05	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3 5.3	5.0	5.1	0%	5.05 5.09	0% 0%	0% 0%	275 275	2%	2% 2%	2%
_	Residential (Townhouse)		5.1	5.1	0%					2%		2%
_	Residential (Townhouse)	5.3	5.1 5.1	5.1	0%	5.15	0% 0%	0%	275 275	2%	2%	2%
	Residential (Townhouse)	5.3 5.3	5.1	5.1	0%	5.13	0%	0% 0%		2%	2%	2%
	Residential (Townhouse)	5.3	5.0	5.1	0%	5.09 5.05	0%	0%	275 275	2%	2% 2%	2%
_	Residential (Townhouse)	5.3	5.0	5.1	0%	5.06	0%	0%	275			2%
_	Residential (Townhouse)			5.1	0%		0%		275	2%	2%	
NSA12_R25	Residential (Single dwelling)	5.3	5.1	5.1	U%	5.08	U%	0%	2/5	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration μg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA12_R26	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA12_R27	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA12_R28	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.07	0%	0%	275	2%	2%	2%
NSA12_R29	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.08	0%	0%	275	2%	2%	2%
NSA12_R30	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.10	0%	0%	275	2%	2%	2%
NSA12_R31	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.14	0%	0%	275	2%	2%	2%
NSA12_R32	Residential (Single dwelling)	5.3	5.1	5.2	0%	5.15	0%	0%	275	2%	2%	2%
NSA12_R33	Residential (Single dwelling)	5.3	5.0	5.1	0%	5.06	0%	0%	275	2%	2%	2%
NSA12_R34	Residential (Townhouse)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R35	Residential (Townhouse)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R36	Residential (Townhouse)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R37	Residential (Townhouse)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R38	Residential (Townhouse)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R39	Residential (Townhouse)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R40	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R41	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R42	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R43	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R44	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R45	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R46	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R47	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R48	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R49	Residential (Townhouse)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R50	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.15	0%	0%	275	2%	2%	2%
NSA12_R51	Residential (Single dwelling)	5.3	5.1	5.2	0%	5.15	0%	0%	275	2%	2%	2%
NSA12_R52	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.14	0%	0%	275	2%	2%	2%
NSA12_R53	Residential (Single dwelling)	5.3	5.1	5.2	0%	5.15	0%	0%	275	2%	2%	2%
NSA12_R54	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.15	0%	0%	275	2%	2%	2%
NSA12_R55	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.14	0%	0%	275	2%	2%	2%
NSA12_R56	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.15	0%	0%	275	2%	2%	2%
NSA12_R57	Residential (Single dwelling)	5.3	5.1	5.2	0%	5.15	0%	0%	275	2%	2%	2%
NSA12_R58	Residential (Single dwelling)	5.3	5.1	5.2	0%	5.15	0%	0%	275	2%	2%	2%
NSA12_R59	Residential (Single dwelling)	5.3	5.1	5.2	0%	5.15	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3	5.1	5.2	0%	5.15	0%	0%	275	2%	2%	2%
	Residential (Single dwelling)	5.3	5.1	5.1	0%	5.13	0%	0%	275	2%	2%	2%
NSA12_R62	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
NSA12_R63	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
_	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%
<del>-</del>	Residential (Single dwelling)	5.3	5.0	5.0	0%	5.04	0%	0%	275	2%	2%	2%

Table B-11 Average Annual SO<sub>2</sub> Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from	Annual Average Concentration	% change from	% change from No-	CAAQS (μg/m³)	Existing	Future No-Build	Future Build (2041)
	i i	(µg/m³)	(µg/m³)	(µg/m³)	Existing Conditions	μg/m³	Existing Conditions	Build		Conditions (2018)	(2041)	
NSA1_R01	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R02	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R03	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R04	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R05	Residential (Condominium)	3.15	3.16	3.16	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R06	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R07	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R08	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R09	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R10	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R11	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R12	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R13	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R14	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R15	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R16	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R17	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R18	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R19	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R20	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R21	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R22	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R23	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R24	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R25	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R26	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R27	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R28	Residential (Townhouse)	3.15	3.16	3.16	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R29	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R30	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R31	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R32	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA1_R33	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R34	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R35	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R36	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R37	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R38	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R39	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R40	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R41	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-E	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m³		00/	40		000/	000/
NSA1_R42	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA1_R44	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA2_R01	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R02	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R03	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R05	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R06	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R07	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R08	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
_	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R10	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R11	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R12	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R13	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
_	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R15	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R16	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R17	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32% 32%	32%	32% 32%
NSA2_R18	Residential (Single dwelling)	3.15 3.15	3.16 3.16	3.16 3.17	0%	3.16 3.17	0%	0%	10	32%	32% 32%	32%
NSA2_R19	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R20	Residential (Single dwelling) Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA2_R21 NSA2_R22		3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA2_R22 NSA2_R23	Residential (Single dwelling) Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Townhouse)	3.15	3.15	3.16	0%	3.16	0%	0%	10	32%	32%	32%
_	Residential (Townhouse)	3.15	3.15	3.16	0%	3.16	0%	0%	10	32%	32%	32%
_	Residential (Single dwelling)	3.15	3.15	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA2_R28	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA2_R29	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
_	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
_	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA2_R33	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
_	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
_	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
_	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA3_R05	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
_	Residential (Single dwelling)	3.15	3.15	3.15	0%	3.15	0%	0%	10	32%	32%	32%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m³						
NSA4_R01	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA4_R02	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA4_R03	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA4_R04	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA4_R05	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA5_R01	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA5_R02	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA6_R01	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA6_R02	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA6_R03	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA6_R04	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA6_R05	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA6_R06	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA7_R01	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8_R01	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8_R02	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0% 0%	10	32% 32%	32% 32%	32% 32%
NSA8_R03	Residential (Single dwelling)	3.15 3.15	3.17 3.16	3.18	0%	3.18 3.17	0%	0%	10	32%	32%	32%
NSA8_R04	Residential (Single dwelling)				0%		0%	0%	10	32%	32%	32%
NSA8_R05	Residential (Single dwelling)	3.15 3.15	3.16 3.16	3.16 3.16	0%	3.16 3.16	0%	0%	10 10	32%	32%	32%
NSA8_R06	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8_R07 NSA8_R08	Residential (Single dwelling)  Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8 R09	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8 R10	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8 R11	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8 R12	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8_R13	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8 R14	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8 R15	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8_R16	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA8_R17	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
 NSA9_R01	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R02	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R03	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R04	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R05	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R06	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R07	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R08	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R09	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R10	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R11	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA9_R13	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	CAAQS (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		µg/m³		201	40			000/
NSA9_R14	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA10_R01	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R02	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R03	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R04	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R06	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R07	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R08	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R09	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R11	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R12	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R13	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA10_R14	Residential (Single dwelling)	3.15	3.17	3.18	0%	3.18	0%	0%	10	32%	32%	32%
NSA10_R15	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA10_R16	Residential (Single dwelling)	3.15	3.19	3.20	0%	3.20	0%	0%	10	32%	32%	32%
NSA11_R01	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R01	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R02	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R03	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R04	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R05	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R06	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R07	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.18	3.18	0%	3.18	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.17	3.18	0%	3.18	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R12	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.17	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.18	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
	Residential (Townhouse)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
	Residential (Townhouse)	3.15	3.18	3.18	0%	3.18	0%	0%	10	32%	32%	32%
	Residential (Townhouse)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R23	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R24	Residential (Townhouse)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the CAAQS	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from	Annual Average Concentration	% change from	% change from No- Build	CAAQS (µg/m³)	Existing	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Existing Conditions	μg/m³	Existing Conditions	Build		Conditions (2018)	(2041)	
NSA12_R25	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R26	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R27	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R28	Residential (Single dwelling)	3.15	3.16	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R29	Residential (Single dwelling)	3.15	3.17	3.17	0%	3.17	0%	0%	10	32%	32%	32%
NSA12_R30	Residential (Single dwelling)	3.15	3.17	3.18	0%	3.18	0%	0%	10	32%	32%	32%
NSA12_R31	Residential (Single dwelling)	3.15	3.18	3.18	0%	3.18	0%	0%	10	32%	32%	32%
NSA12_R32	Residential (Single dwelling)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R33	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R34	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R35	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R36	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R37	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R38	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R39	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R40	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R41	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R42	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R43	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R44	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R45	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R46	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R47	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R48	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R49	Residential (Townhouse)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R50	Residential (Single dwelling)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R51	Residential (Single dwelling)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R52	Residential (Single dwelling)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R53	Residential (Single dwelling)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R54	Residential (Single dwelling)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R55	Residential (Single dwelling)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R56	Residential (Single dwelling)	3.15	3.18	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R57	Residential (Single dwelling)	3.15	3.19	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R58	Residential (Single dwelling)	3.15	3.19	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R59	Residential (Single dwelling)	3.15	3.19	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R60	Residential (Single dwelling)	3.15	3.19	3.19	0%	3.19	0%	0%	10	32%	32%	32%
NSA12_R61	Residential (Single dwelling)	3.15	3.18	3.18	0%	3.18	0%	0%	10	32%	32%	32%
NSA12_R62	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R63	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R64	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%
NSA12_R65	Residential (Single dwelling)	3.15	3.16	3.16	0%	3.16	0%	0%	10	32%	32%	32%

Table B-12 1-hr Maximum CO Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	-nr Maximum CO Concentrations for Ex	Background	<b>Existing Conditions</b>	Future No-			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	(2018) 1-hr Max Concentration	1-hr Max Concentration	% change from Existing Conditions	1-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m³					,	
NSA1_R01	Residential (Single dwelling)	419	827	644	-22%	644	-22%	0%	36,200	2%	2%	2%
NSA1_R02	Residential (Single dwelling)	419	817	639	-22%	639	-22%	0%	36,200	2%	2%	2%
NSA1_R03 NSA1_R04	Residential (Single dwelling)  Residential (Single dwelling)	419 419	784 832	621 648	-21% -22%	621 649	-21% -22%	0% 0%	36,200 36,200	2% 2%	2% 2%	2% 2%
NSA1_R05	Residential (Single dwelling)  Residential (Condominium)	419	731	592	-19%	592	-19%	0%	36,200	2%	2%	2%
NSA1_R06	Residential (Condominant)  Residential (Townhouse)	419	808	638	-21%	638	-21%	0%	36,200	2%	2%	2%
NSA1_R07	Residential (Townhouse)	419	820	645	-21%	645	-21%	0%	36,200	2%	2%	2%
NSA1_R08	Residential (Townhouse)	419	856	665	-22%	665	-22%	0%	36,200	2%	2%	2%
NSA1_R09	Residential (Townhouse)	419	851	662	-22%	662	-22%	0%	36,200	2%	2%	2%
NSA1_R10	Residential (Townhouse)	419	862	668	-22%	668	-22%	0%	36,200	2%	2%	2%
NSA1 R11	Residential (Townhouse)	419	824	647	-22%	647	-22%	0%	36,200	2%	2%	2%
NSA1_R11	Residential (Townhouse)	419	770	616	-20%	616	-20%	0%	36,200	2%	2%	2%
NSA1_R12 NSA1_R13	Residential (Fownhouse)  Residential (Single dwelling)	419	785	624	-20%	624	-20%	0%	36,200	2%	2%	2%
NSA1_R14	Residential (Single dwelling)	419	752	606	-19%	606	-19%	0%	36,200	2%	2%	2%
	· · · · · · · · · · · · · · · · · · ·	419	812	640	-21%	640	-21%	0%	36,200	2%	2%	2%
NSA1_R15	Residential (Townhouse)  Residential (Townhouse)	419	780	622	-20%	622	-20%	0%	36,200	2%	2%	2%
NSA1_R16	,	419	703	578	-18%	578	-18%	0%	36,200	2%	2%	2%
NSA1_R17	Residential (Townhouse)	419	804	633	-21%	633	-21%	0%	36,200	2%	2%	2%
NSA1_R18	Residential (Townhouse)				-21%		-21%			+		2%
NSA1_R19	Residential (Townhouse)	419	823	643		643		0%	36,200	2%	2%	
NSA1_R20	Residential (Single dwelling)	419	671	560	-17%	560	-17%	0%	36,200	2%	2%	2%
NSA1_R21	Residential (Single dwelling)	419	740	598	-19%	598	-19%	0%	36,200	2%	2%	2%
NSA1_R22	Residential (Single dwelling)	419	682	566	-17%	566	-17%	0%	36,200	2%	2%	2%
NSA1_R23	Residential (Townhouse)	419	686	568	-17%	568	-17%	0%	36,200	2%	2%	2%
NSA1_R24	Residential (Townhouse)	419	658	553	-16%	553	-16%	0%	36,200	2%	2%	2%
NSA1_R25	Residential (Townhouse)	419	627	541	-14%	541	-14%	0%	36,200	2%	1%	1%
NSA1_R26	Residential (Townhouse)	419	592	523	-12%	523	-12%	0%	36,200	2%	1%	1%
NSA1_R27	Residential (Townhouse)	419	640	544	-15%	545	-15%	0%	36,200	2%	2%	2%
NSA1_R28	Residential (Townhouse)	419	735	595	-19%	595	-19%	0%	36,200	2%	2%	2%
NSA1_R29	Residential (Single dwelling)	419	631	537	-15%	538	-15%	0%	36,200	2%	1%	1%
NSA1_R30	Residential (Single dwelling)	419	655	551	-16%	551	-16%	0%	36,200	2%	2%	2%
NSA1_R31	Residential (Single dwelling)	419	724	590	-18%	590	-18%	0%	36,200	2%	2%	2%
NSA1_R32	Residential (Single dwelling)	419	701	577	-18%	577	-18%	0%	36,200	2%	2%	2%
NSA1_R33	Residential (Single dwelling)	419	731	594	-19%	594	-19%	0%	36,200	2%	2%	2%
NSA1_R34	Residential (Single dwelling)	419	732	593	-19%	594	-19%	0%	36,200	2%	2%	2%
NSA1_R35	Residential (Single dwelling)	419	748	602	-19%	602	-19%	0%	36,200	2%	2%	2%
NSA1_R36	Residential (Single dwelling)	419	753	605	-20%	605	-20%	0%	36,200	2%	2%	2%
NSA1_R37	Residential (Single dwelling)	419	753	606	-19%	606	-19%	0%	36,200	2%	2%	2%
NSA1_R38	Residential (Single dwelling)	419	778	621	-20%	621	-20%	0%	36,200	2%	2%	2%
NSA1_R39	Residential (Single dwelling)	419	751	604	-20%	604	-20%	0%	36,200	2%	2%	2%
NSA1_R40	Residential (Single dwelling)	419	762	610	-20%	610	-20%	0%	36,200	2%	2%	2%
NSA1_R41	Residential (Single dwelling)	419	740	599	-19%	599	-19%	0%	36,200	2%	2%	2%
NSA1_R42	Residential (Single dwelling)	419	743	600	-19%	600	-19%	0%	36,200	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	1-hr Max Concentration (µg/m³)	1-hr Max Concentration (µg/m³)	% change from Existing Conditions	1-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R43	Residential (Single dwelling)	419	758	(μg//// ) 608	-20%	608	-20%	0%	36,200	2%	2%	2%
NSA1 R44	Residential (Single dwelling)	419	692	572	-17%	572	-17%	0%	36,200	2%	2%	2%
NSA2_R01	Residential (Single dwelling)	419	774	617	-20%	617	-20%	0%	36,200	2%	2%	2%
NSA2_R02	Residential (Single dwelling)	419	760	609	-20%	609	-20%	0%	36,200	2%	2%	2%
NSA2_R03	Residential (Single dwelling)	419	777	618	-20%	618	-20%	0%	36,200	2%	2%	2%
	Residential (Single dwelling)	419	738	598	-19%	598	-19%	0%	36,200	2%	2%	2%
NSA2_R05	Residential (Single dwelling)	419	785	624	-20%	624	-20%	0%	36,200	2%	2%	2%
NSA2_R06	Residential (Single dwelling)	419	745	604	-19%	604	-19%	0%	36,200	2%	2%	2%
NSA2_R07	Residential (Townhouse)	419	758	616	-19%	616	-19%	0%	36,200	2%	2%	2%
NSA2_R08	Residential (Townhouse)	419	735	609	-17%	609	-17%	0%	36,200	2%	2%	2%
NSA2_R09	Residential (Townhouse)	419	757	618	-18%	619	-18%	0%	36,200	2%	2%	2%
NSA2_R10	Residential (Single dwelling)	419	796	631	-21%	631	-21%	0%	36,200	2%	2%	2%
NSA2_R11	Residential (Single dwelling)	419	811	640	-21%	640	-21%	0%	36,200	2%	2%	2%
NSA2_R12	Residential (Single dwelling)	419	807	637	-21%	637	-21%	0%	36,200	2%	2%	2%
NSA2_R13	Residential (Townhouse)	419	747	616	-18%	616	-18%	0%	36,200	2%	2%	2%
NSA2_R14	Residential (Townhouse)	419	764	625	-18%	626	-18%	0%	36,200	2%	2%	2%
NSA2_R15	Residential (Single dwelling)	419	775	632	-19%	632	-18%	0%	36,200	2%	2%	2%
NSA2_R16	Residential (Single dwelling)	419	796	644	-19%	644	-19%	0%	36,200	2%	2%	2%
NSA2_R17	Residential (Single dwelling)	419	848	672	-21%	672	-21%	0%	36,200	2%	2%	2%
NSA2_R18	Residential (Single dwelling)	419	877	686	-22%	686	-22%	0%	36,200	2%	2%	2%
NSA2_R19	Residential (Single dwelling)	419	738	597	-19%	598	-19%	0%	36,200	2%	2%	2%
NSA2_R20	Residential (Single dwelling)	419	754	609	-19%	609	-19%	0%	36,200	2%	2%	2%
NSA2_R21	Residential (Townhouse)	419	1001	734	-27%	734	-27%	0%	36,200	3%	2%	2%
NSA2_R22	Residential (Single dwelling)	419	731	593	-19%	593	-19%	0%	36,200	2%	2%	2%
NSA2_R23	Residential (Single dwelling)	419	710	584	-18%	584	-18%	0%	36,200	2%	2%	2%
NSA2_R24	Residential (Single dwelling)	419	674	584	-13%	585	-13%	0%	36,200	2%	2%	2%
	Residential (Townhouse)	419	636	537	-16%	537	-16%	0%	36,200	2%	1%	1%
NSA2_R26	Residential (Townhouse)	419	583	509	-13%	509	-13%	0%	36,200	2%	1%	1%
	Residential (Single dwelling)	419	582	512	-12%	512	-12%	0%	36,200	2%	1%	1%
NSA2_R28	Residential (Single dwelling)	419	583	520	-11%	524	-10%	1%	36,200	2%	1%	1%
NSA2_R29	Residential (Single dwelling)	419	584	521	-11%	523	-10%	0%	36,200	2%	1%	1%
	Residential (Single dwelling)	419	591	526	-11%	527	-11%	0%	36,200	2%	1%	1%
	Residential (Single dwelling)	419 419	579 552	521 504	-10% -9%	521 504	-10% -9%	0% 0%	36,200 36,200	2% 2%	1% 1%	1% 1%
	Residential (Single dwelling)	419	547	504	-8%	504	-9%	0%	36,200	2%	1%	1%
NSA2_R33 NSA2_R34	Residential (Single dwelling) Residential (Single dwelling)	419	548	506	-8%	506	-8%	0%	36,200	2%	1%	1%
	Residential (Single dwelling)  Residential (Single dwelling)	419	571	521	-9%	521	-9%	0%	36,200	2%	1%	1%
	Residential (Single dwelling)  Residential (Single dwelling)	419	585	530	-9%	530	-9%	0%	36,200	2%	1%	1%
	Residential (Single dwelling)	419	618	552	-11%	552	-11%	0%	36,200	2%	2%	2%
NSA3_R04	Residential (Single dwelling)	419	688	598	-13%	598	-13%	0%	36,200	2%	2%	2%
NSA3 R05	Residential (Single dwelling)	419	674	590	-12%	590	-12%	0%	36,200	2%	2%	2%
	Residential (Single dwelling)	419	595	527	-11%	527	-11%	0%	36,200	2%	1%	1%
	Residential (Single dwelling)	419	743	642	-14%	642	-14%	0%	36,200	2%	2%	2%
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Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	1-hr Max Concentration (µg/m³)	1-hr Max Concentration (ug/m³)	% change from Existing Conditions	1-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4_R02	Residential (Single dwelling)	419	616	551	-10%	551	-10%	0%	36,200	2%	2%	2%
NSA4_R03	Residential (Single dwelling)	419	642	574	-11%	574	-11%	0%	36,200	2%	2%	2%
NSA4_R04	Residential (Single dwelling)	419	608	538	-11%	538	-11%	0%	36,200	2%	1%	1%
NSA4_R05	Residential (Single dwelling)	419	597	537	-10%	537	-10%	0%	36,200	2%	1%	1%
NSA5_R01	Residential (Single dwelling)	419	661	584	-12%	585	-12%	0%	36,200	2%	2%	2%
NSA5_R02	Residential (Single dwelling)	419	655	578	-12%	579	-12%	0%	36,200	2%	2%	2%
NSA6_R01	Residential (Single dwelling)	419	904	753	-17%	753	-17%	0%	36,200	2%	2%	2%
NSA6_R02	Residential (Single dwelling)	419	876	729	-17%	729	-17%	0%	36,200	2%	2%	2%
NSA6_R03	Residential (Single dwelling)	419	897	742	-17%	743	-17%	0%	36,200	2%	2%	2%
NSA6_R04	Residential (Single dwelling)	419	776	659	-15%	659	-15%	0%	36,200	2%	2%	2%
NSA6_R05	Residential (Single dwelling)	419	820	692	-16%	692	-16%	0%	36,200	2%	2%	2%
NSA6_R06	Residential (Single dwelling)	419	855	724	-15%	724	-15%	0%	36,200	2%	2%	2%
NSA7_R01	Residential (Single dwelling)	419	711	594	-16%	594	-16%	0%	36,200	2%	2%	2%
	Residential (Single dwelling)	419	608	539	-11%	539	-11%	0%	36,200	2%	1%	1%
NSA8_R02	Residential (Single dwelling)	419	874	716	-18%	716	-18%	0%	36,200	2%	2%	2%
NSA8_R03	Residential (Single dwelling)	419	915	742	-19%	743	-19%	0%	36,200	3%	2%	2%
NSA8_R04	Residential (Single dwelling)	419	735	626	-15%	626	-15%	0%	36,200	2%	2%	2%
NSA8_R05	Residential (Single dwelling)	419	691 684	597 593	-14% -13%	597 593	-14% -13%	0% 0%	36,200 36,200	2% 2%	2%	2% 2%
NSA8_R06	Residential (Single dwelling)	419 419	647	569	-12%	569	-12%	0%	36,200	2%	2% 2%	2%
NSA8_R07 NSA8_R08	Residential (Single dwelling)	419	611	540	-12%	540	-12%	0%	36,200	2%	1%	1%
NSA8 R09	Residential (Single dwelling) Residential (Single dwelling)	419	598	531	-11%	532	-11%	0%	36,200	2%	1%	1%
NSA8_R10	Residential (Single dwelling)  Residential (Single dwelling)	419	620	545	-12%	545	-12%	0%	36,200	2%	2%	2%
NSA8 R11	Residential (Single dwelling)	419	618	542	-12%	542	-12%	0%	36,200	2%	1%	1%
NSA8 R12	Residential (Single dwelling)	419	608	535	-12%	535	-12%	0%	36,200	2%	1%	1%
NSA8 R13	Residential (Single dwelling)	419	580	524	-10%	524	-10%	0%	36,200	2%	1%	1%
NSA8 R14	Residential (Single dwelling)	419	575	517	-10%	518	-10%	0%	36,200	2%	1%	1%
NSA8 R15	Residential (Single dwelling)	419	609	536	-12%	536	-12%	0%	36,200	2%	1%	1%
	Residential (Single dwelling)	419	622	535	-14%	535	-14%	0%	36,200	2%	1%	1%
_	Residential (Townhouse)	419	615	533	-13%	533	-13%	0%	36,200	2%	1%	1%
 NSA9_R01	Residential (Single dwelling)	419	620	541	-13%	541	-13%	0%	36,200	2%	1%	1%
NSA9_R02	Residential (Single dwelling)	419	569	512	-10%	512	-10%	0%	36,200	2%	1%	1%
NSA9_R03	Residential (Single dwelling)	419	577	517	-10%	517	-10%	0%	36,200	2%	1%	1%
NSA9_R04	Residential (Single dwelling)	419	580	518	-11%	519	-11%	0%	36,200	2%	1%	1%
NSA9_R05	Residential (Single dwelling)	419	567	509	-10%	509	-10%	0%	36,200	2%	1%	1%
NSA9_R06	Residential (Single dwelling)	419	594	525	-12%	526	-12%	0%	36,200	2%	1%	1%
NSA9_R07	Residential (Single dwelling)	419	580	515	-11%	516	-11%	0%	36,200	2%	1%	1%
NSA9_R08	Residential (Single dwelling)	419	621	537	-14%	537	-14%	0%	36,200	2%	1%	1%
NSA9_R09	Residential (Single dwelling)	419	625	537	-14%	538	-14%	0%	36,200	2%	1%	1%
NSA9_R10	Residential (Single dwelling)	419	673	560	-17%	560	-17%	0%	36,200	2%	2%	2%
NSA9_R11	Residential (Single dwelling)	419	665	557	-16%	557	-16%	0%	36,200	2%	2%	2%
NSA9_R13	Residential (Single dwelling)	419	622	539	-13%	547	-12%	1%	36,200	2%	1%	2%
NSA9_R14	Residential (Single dwelling)	419	613	533	-13%	534	-13%	0%	36,200	2%	1%	1%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	1-hr Max Concentration (μg/m³)	1-hr Max Concentration (µg/m³)	% change from Existing Conditions	1-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R15	Residential (Single dwelling)	419	725	603	-17%	603	-17%	0%	36,200	2%	2%	2%
_	Residential (Single dwelling)	419	644	556	-14%	556	-14%	0%	36,200	2%	2%	2%
	Residential (Single dwelling)	419	700	591	-16%	591	-16%	0%	36,200	2%	2%	2%
NSA10_R03	Residential (Single dwelling)	419	657	563	-14%	563	-14%	0%	36,200	2%	2%	2%
NSA10 R04	Residential (Single dwelling)	419	650	559	-14%	559	-14%	0%	36,200	2%	2%	2%
NSA10_R05	Residential (Single dwelling)	419	657	564	-14%	564	-14%	0%	36,200	2%	2%	2%
NSA10_R06	Residential (Single dwelling)	419	678	577	-15%	577	-15%	0%	36,200	2%	2%	2%
NSA10_R07	Residential (Single dwelling)	419	689	583	-15%	584	-15%	0%	36,200	2%	2%	2%
NSA10_R08	Residential (Single dwelling)	419	694	586	-16%	587	-16%	0%	36,200	2%	2%	2%
NSA10_R09	Residential (Single dwelling)	419	698	589	-16%	589	-16%	0%	36,200	2%	2%	2%
NSA10_R10	Residential (Single dwelling)	419	706	593	-16%	594	-16%	0%	36,200	2%	2%	2%
NSA10_R11	Residential (Single dwelling)	419	711	596	-16%	597	-16%	0%	36,200	2%	2%	2%
NSA10_R12	Residential (Single dwelling)	419	701	590	-16%	591	-16%	0%	36,200	2%	2%	2%
NSA10_R13	Residential (Single dwelling)	419	704	592	-16%	593	-16%	0%	36,200	2%	2%	2%
NSA10_R14	Residential (Single dwelling)	419	1310	949	-28%	949	-28%	0%	36,200	4%	3%	3%
NSA10_R15	Residential (Single dwelling)	419	998	766	-23%	766	-23%	0%	36,200	3%	2%	2%
NSA10_R16	Residential (Single dwelling)	419	1880	1287	-32%	1287	-32%	0%	36,200	5%	4%	4%
NSA11_R01	Residential (Single dwelling)	419	988	756	-23%	756	-23%	0%	36,200	3%	2%	2%
NSA12_R01	Residential (Single dwelling)	419	1130	790	-30%	790	-30%	0%	36,200	3%	2%	2%
NSA12_R02	Residential (Single dwelling)	419	1102	776	-30%	776	-30%	0%	36,200	3%	2%	2%
NSA12_R03	Residential (Single dwelling)	419	1127	788	-30%	788	-30%	0%	36,200	3%	2%	2%
NSA12_R04	Residential (Single dwelling)	419	833	657	-21%	657	-21%	0%	36,200	2%	2%	2%
NSA12_R05	Residential (Single dwelling)	419	824	652	-21%	652	-21%	0%	36,200	2%	2%	2%
NSA12_R06	Residential (Single dwelling)	419	818	649	-21%	649	-21%	0%	36,200	2%	2%	2%
NSA12_R07	Residential (Single dwelling)	419	799	638	-20%	638	-20%	0%	36,200	2%	2%	2%
NSA12_R08	Residential (Single dwelling)	419	1169	811	-31%	811	-31%	0%	36,200	3%	2%	2%
NSA12_R09	Residential (Single dwelling)	419	948	700	-26%	700	-26%	0%	36,200	3%	2%	2%
NSA12_R10	Residential (Single dwelling)	419	1133	792	-30%	792	-30%	0%	36,200	3%	2%	2%
NSA12_R11	Residential (Single dwelling)	419	1087	767	-29%	767	-29%	0%	36,200	3%	2%	2%
NSA12_R12	Residential (Single dwelling)	419	1061	757	-29%	757	-29%	0%	36,200	3%	2%	2%
NSA12_R13	Residential (Single dwelling)	419	1028	741	-28%	741	-28%	0%	36,200	3%	2%	2%
NSA12_R14	Residential (Single dwelling)	419	1063	771	-27%	771	-27%	0%	36,200	3%	2%	2%
NSA12_R15	Residential (Single dwelling)	419	1085	782	-28%	783	-28%	0%	36,200	3%	2%	2%
NSA12_R16	Residential (Single dwelling)	419	1076	763	-29%	763	-29%	0%	36,200	3%	2%	2%
NSA12_R17	Residential (Single dwelling)	419	1093	787	-28%	787	-28%	0%	36,200	3%	2%	2%
NSA12_R18	Residential (Single dwelling)	419	1102	792	-28%	792	-28%	0%	36,200	3%	2%	2%
NSA12_R19	Residential (Townhouse)	419	1049	751	-28%	751	-28%	0%	36,200	3%	2%	2%
NSA12_R20	Residential (Townhouse)	419	1608	1045	-35%	1045	-35%	0%	36,200	4%	3%	3%
NSA12_R21	Residential (Townhouse)	419	1453	963	-34%	964	-34%	0%	36,200	4%	3%	3%
NSA12_R22	Residential (Townhouse)	419	1173	816	-30%	816	-30%	0%	36,200	3%	2%	2%
NSA12_R23	Residential (Townhouse)	419	883	669	-24%	669	-24%	0%	36,200	2%	2%	2%
NSA12_R24	Residential (Townhouse)	419	979	720	-26%	720	-26%	0%	36,200	3%	2%	2%
NSA12_R25	Residential (Single dwelling)	419	1119	795	-29%	795	-29%	0%	36,200	3%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	1-hr Max Concentration (µg/m³)	1-hr Max Concentration (µg/m³)	% change from Existing Conditions	1-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA12_R26	Residential (Single dwelling)	(μg/m ) 419	1027	746	-27%	746	-27%	0%	36,200	3%	2%	2%
NSA12_R27	Residential (Single dwelling)	419	989	726	-27%	726	-27%	0%	36,200	3%	2%	2%
NSA12_R28	Residential (Single dwelling)	419	979	714	-27%	714	-27%	0%	36,200	3%	2%	2%
NSA12_R29	Residential (Single dwelling)	419	1080	774	-28%	775	-28%	0%	36,200	3%	2%	2%
NSA12_R30	Residential (Single dwelling)	419	1284	884	-31%	884	-31%	0%	36,200	4%	2%	2%
NSA12_R31	Residential (Single dwelling)	419	1559	1031	-34%	1031	-34%	0%	36,200	4%	3%	3%
NSA12_R32	Residential (Single dwelling)	419	1633	1071	-34%	1071	-34%	0%	36,200	5%	3%	3%
NSA12_R33	Residential (Single dwelling)	419	892	673	-24%	673	-24%	0%	36,200	2%	2%	2%
NSA12_R34	Residential (Townhouse)	419	974	723	-26%	723	-26%	0%	36,200	3%	2%	2%
NSA12_R35	Residential (Townhouse)	419	938	701	-25%	701	-25%	0%	36,200	3%	2%	2%
NSA12_R36	Residential (Townhouse)	419	924	693	-25%	693	-25%	0%	36,200	3%	2%	2%
	Residential (Townhouse)	419	904	682	-25%	683	-25%	0%	36,200	2%	2%	2%
NSA12_R38	Residential (Townhouse)	419	893	676	-24%	676	-24%	0%	36,200	2%	2%	2%
NSA12_R39	Residential (Townhouse)	419	877	667	-24%	667	-24%	0%	36,200	2%	2%	2%
NSA12_R40	Residential (Single dwelling)	419	834	645	-23%	645	-23%	0%	36,200	2%	2%	2%
NSA12_R41	Residential (Single dwelling)	419	859	657	-23%	657	-23%	0%	36,200	2%	2%	2%
NSA12_R42	Residential (Single dwelling)	419	854	655	-23%	655	-23%	0%	36,200	2%	2%	2%
NSA12_R43	Residential (Single dwelling)	419	839	646	-23%	646	-23%	0%	36,200	2%	2%	2%
NSA12_R44	Residential (Single dwelling)	419	832	642	-23%	642	-23%	0%	36,200	2%	2%	2%
NSA12_R45	Residential (Single dwelling)	419	821	636	-22%	636	-22%	0%	36,200	2%	2%	2%
NSA12_R46	Residential (Single dwelling)	419	814	633	-22%	633	-22%	0%	36,200	2%	2%	2%
NSA12_R47	Residential (Single dwelling)	419	805	627	-22%	627	-22%	0%	36,200	2%	2%	2%
NSA12_R48	Residential (Single dwelling)	419	803	626	-22%	626	-22%	0%	36,200	2%	2%	2%
NSA12_R49	Residential (Townhouse)	419	774	610	-21%	610	-21%	0%	36,200	2%	2%	2%
NSA12_R50	Residential (Single dwelling)	419	1619	1063	-34%	1063	-34%	0%	36,200	4%	3%	3%
NSA12_R51	Residential (Single dwelling)	419	1792	1157	-35%	1157	-35%	0%	36,200	5%	3%	3%
NSA12_R52	Residential (Single dwelling)	419	1719	1118	-35%	1118	-35%	0%	36,200	5%	3%	3%
NSA12_R53	Residential (Single dwelling)	419	1950	1242	-36%	1242	-36%	0%	36,200	5%	3%	3%
NSA12 R54	Residential (Single dwelling)	419	1969	1253	-36%	1253	-36%	0%	36,200	5%	3%	3%
NSA12 R55	Residential (Single dwelling)	419	1847	1188	-36%	1188	-36%	0%	36,200	5%	3%	3%
NSA12_R56	Residential (Single dwelling)	419	1919	1227	-36%	1227	-36%	0%	36,200	5%	3%	3%
NSA12_R57	Residential (Single dwelling)	419	1930	1233	-36%	1233	-36%	0%	36,200	5%	3%	3%
NSA12_R58	Residential (Single dwelling)	419	1920	1228	-36%	1228	-36%	0%	36,200	5%	3%	3%
NSA12_R59	Residential (Single dwelling)	419	1907	1221	-36%	1221	-36%	0%	36,200	5%	3%	3%
	Residential (Single dwelling)	419	1851	1191	-36%	1191	-36%	0%	36,200	5%	3%	3%
NSA12_R61	Residential (Single dwelling)	419	1503	1004	-33%	1004	-33%	0%	36,200	4%	3%	3%
NSA12_R62	Residential (Single dwelling)	419	761	603	-21%	603	-21%	0%	36,200	2%	2%	2%
NSA12 R63	Residential (Single dwelling)	419	752	598	-20%	598	-20%	0%	36,200	2%	2%	2%
NSA12 R64	Residential (Single dwelling)	419	740	591	-20%	591	-20%	0%	36,200	2%	2%	2%
	Residential (Single dwelling)	419	729	586	-20%	586	-20%	0%	36,200	2%	2%	2%

Table B-13 8-hr Maximum CO Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No	o-Build (2041)	F	uture Build (2041)				% of the AAQC	
ID	Туре	Concentration	8-hr Max Concentration	8-hr Max Concentration	% change from	8-hr Max Concentration	% change from Existing	% change from No-Build	AAQC (μg/m³)	Existing	Future No-Build	Future Build (2041)
		(µg/m <sup>3</sup> )	(µg/m³)	(µg/m³)	Existing Conditions	μg/m <sup>3</sup>	Conditions	NO-Build		Conditions (2018)	(2041)	
NSA1_R01	Residential (Single dwelling)	403	644	540	-16%	540	-16%	0%	15,700	4%	3%	3%
NSA1_R02	Residential (Single dwelling)	403	642	539	-16%	539	-16%	0%	15,700	4%	3%	3%
NSA1_R03	Residential (Single dwelling)	403	626	530	-15%	530	-15%	0%	15,700	4%	3%	3%
NSA1_R04	Residential (Single dwelling)	403	655	547	-17%	547	-17%	0%	15,700	4%	3%	3%
NSA1_R05	Residential (Condominium)	403	598	515	-14%	515	-14%	0%	15,700	4%	3%	3%
NSA1_R06	Residential (Townhouse)	403	530	476	-10%	476	-10%	0%	15,700	3%	3%	3%
NSA1_R07	Residential (Townhouse)	403	534	479	-10%	479	-10%	0%	15,700	3%	3%	3%
NSA1_R08	Residential (Townhouse)	403	546	486	-11%	486	-11%	0%	15,700	3%	3%	3%
NSA1_R09	Residential (Townhouse)	403	545	485	-11%	485	-11%	0%	15,700	3%	3%	3%
NSA1_R10	Residential (Townhouse)	403	549	488	-11%	488	-11%	0%	15,700	3%	3%	3%
NSA1_R11	Residential (Townhouse)	403	536	480	-10%	480	-10%	0%	15,700	3%	3%	3%
NSA1_R12	Residential (Townhouse)	403	517	469	-9%	469	-9%	0%	15,700	3%	3%	3%
NSA1_R13	Residential (Single dwelling)	403	522	472	-10%	472	-10%	0%	15,700	3%	3%	3%
NSA1_R14	Residential (Single dwelling)	403	512	466	-9%	466	-9%	0%	15,700	3%	3%	3%
NSA1_R15	Residential (Townhouse)	403	532	477	-10%	478	-10%	0%	15,700	3%	3%	3%
NSA1_R16	Residential (Townhouse)	403	519	470	-9%	470	-9%	0%	15,700	3%	3%	3%
NSA1_R17	Residential (Townhouse)	403	493	455	-8%	455	-8%	0%	15,700	3%	3%	3%
NSA1_R18	Residential (Townhouse)	403	635	535	-16%	536	-16%	0%	15,700	4%	3%	3%
NSA1_R19	Residential (Townhouse)	403	644	541	-16%	541	-16%	0%	15,700	4%	3%	3%
NSA1_R20	Residential (Single dwelling)	403	564	496	-12%	496	-12%	0%	15,700	4%	3%	3%
NSA1_R21	Residential (Single dwelling)	403	603	518	-14%	518	-14%	0%	15,700	4%	3%	3%
NSA1_R22	Residential (Single dwelling)	403	571	500	-12%	500	-12%	0%	15,700	4%	3%	3%
NSA1_R23	Residential (Townhouse)	403	574	501	-13%	502	-13%	0%	15,700	4%	3%	3%
NSA1_R24	Residential (Townhouse)	403	558	493	-12%	493	-12%	0%	15,700	4%	3%	3%
NSA1_R25	Residential (Townhouse)	403	541	483	-11%	483	-11%	0%	15,700	3%	3%	3%
NSA1_R26	Residential (Townhouse)	403	515	468	-9%	468	-9%	0%	15,700	3%	3%	3%
NSA1_R27	Residential (Townhouse)	403	547	486	-11%	487	-11%	0%	15,700	3%	3%	3%
NSA1_R28	Residential (Townhouse)	403	598	515	-14%	515	-14%	0%	15,700	4%	3%	3%
NSA1_R29	Residential (Single dwelling)	403	471	442	-6%	442	-6%	0%	15,700	3%	3%	3%
NSA1_R30	Residential (Single dwelling)	403	479	447	-7%	447	-7%	0%	15,700	3%	3%	3%
NSA1_R31	Residential (Single dwelling)	403	502	460	-8%	460	-8%	0%	15,700	3%	3%	3%
NSA1_R32	Residential (Single dwelling)	403	494	456	-8%	456	-8%	0%	15,700	3%	3%	3%
NSA1_R33	Residential (Single dwelling)	403	503	461	-8%	461	-8%	0%	15,700	3%	3%	3%
NSA1_R34	Residential (Single dwelling)	403	595	514	-14%	514	-14%	0%	15,700	4%	3%	3%
NSA1_R35	Residential (Single dwelling)	403	602	517	-14%	518	-14%	0%	15,700	4%	3%	3%
NSA1_R36	Residential (Single dwelling)	403	605	519	-14%	519	-14%	0%	15,700	4%	3%	3%
NSA1_R37	Residential (Single dwelling)	403	511	465	-9%	465	-9%	0%	15,700	3%	3%	3%
NSA1_R38	Residential (Single dwelling)	403	518	469	-9%	469	-9%	0%	15,700	3%	3%	3%
NSA1_R39	Residential (Single dwelling)	403	604	518	-14%	518	-14%	0%	15,700	4%	3%	3%
NSA1_R40	Residential (Single dwelling)	403	610	522	-14%	522	-14%	0%	15,700	4%	3%	3%
NSA1_R41	Residential (Single dwelling)	403	508	464	-9%	464	-9%	0%	15,700	3%	3%	3%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No	-Build (2041)	F	uture Build (2041)				% of the AAQC	
ID	Туре	Concentration	8-hr Max Concentration	8-hr Max Concentration	% change from Existing Conditions	8-hr Max Concentration	% change from Existing Conditions	% change from No-Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R42	Posidential (Single dwelling)	(µg/m³) 403	(μg/m³) 599	(µg/m³) 516	-14%	μg/m³ 516	-14%	0%	15,700	4%	3%	3%
	Residential (Single dwelling)	403	609	521	-14%	522	-14%	0%	15,700	4%	3%	3%
NSA1_R43	Residential (Single dwelling)	403	492	455	-8%	455	-8%	0%	15,700	3%	3%	3%
NSA1_R44	Residential (Single dwelling)	403	619	527	-15%	528	-6% -15%	0%	15,700	4%	3%	3%
NSA2_R01	Residential (Single dwelling)	403	613	524	-15%	524	-14%	0%	15,700	4%	3%	3%
NSA2_R02	Residential (Single dwelling)	403	625	530	-15%	524	-14%	0%	15,700	4%	3%	3%
NSA2_R03	Residential (Single dwelling)	403	507	463	-9%	463	-13%	0%		3%	3%	3%
NSA2_R04	Residential (Single dwelling)	403	523	403	-9% -10%	403	-9% -10%		15,700	3%	3%	3%
NSA2_R05	Residential (Single dwelling)	403	512	466	-9%	466	-10%	0% 0%	15,700 15,700	3%	3%	3%
NSA2_R06	Residential (Single dwelling)				-9% -15%		-9% -15%			4%	3%	
NSA2_R07	Residential (Townhouse)	403	623	530		530		0%	15,700	4%		3%
NSA2_R08	Residential (Townhouse)	403 403	609 624	522 530	-14% -15%	522 530	-14% -15%	0% 0%	15,700 15,700	4%	3% 3%	3%
NSA2_R09	Residential (Townhouse)	403	526	474	-10%	474	-10%			-	3%	3%
NSA2_R10	Residential (Single dwelling)	403	530	474	-10%	474	-10%	0% 0%	15,700 15,700	3% 3%	3%	3%
NSA2_R11	Residential (Single dwelling)				-10%		-10%			3%	3%	
NSA2_R12	Residential (Single dwelling)	403	530 617	476 526	-10%	476 526	-15%	0%	15,700	+	3%	3%
NSA2_R13	Residential (Townhouse)	403 403	628	532	-15%	533	-15%	0%	15,700 15,700	4%	3%	3%
NSA2_R14	Residential (Circle deselling)	403	633	535	-15%	535	-15%	0% 0%	15,700	4% 4%	3%	3%
NSA2_R15	Residential (Single dwelling)											
NSA2_R16	Residential (Single dwelling)	403	643 647	541 543	-16% -16%	541 543	-16% -16%	0% 0%	15,700	4% 4%	3% 3%	3%
NSA2_R17	Residential (Single dwelling)	403 403	617	526	-15%	543	-15%	0%	15,700 15,700	4%	3%	3%
NSA2_R18	Residential (Single dwelling)	403	516	468	-9%	468	-13%	0%	15,700	3%	3%	3%
NSA2_R19	Residential (Single dwelling)	403	524	473	-9%	473	-10%	0%	15,700	3%	3%	3%
NSA2_R20	Residential (Single dwelling) Residential (Townhouse)	403	606	513	-15%	513	-15%	0%	15,700	4%	3%	3%
NSA2_R21	,	403	530	471	-11%	471	-11%	0%	15,700	3%	3%	3%
NSA2_R22	Residential (Single dwelling)	403	523	471	-10%	471	-10%	0%	15,700	3%	3%	3%
NSA2_R23 NSA2_R24	Residential (Single dwelling) Residential (Single dwelling)	403	530	478	-10%	478	-10%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)  Residential (Townhouse)	403	452	431	-5%	431	-5%	0%	15,700	3%	3%	3%
NSA2_R25 NSA2_R26	Residential (Townhouse)	403	441	425	-4%	425	-4%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)	403	437	425	-3%	425	-3%	0%	15,700	3%	3%	3%
NSA2_R28	Residential (Single dwelling)	403	443	429	-3%	430	-3%	0%	15,700	3%	3%	3%
NSA2_R20 NSA2_R29	Residential (Single dwelling)  Residential (Single dwelling)	403	451	434	-4%	434	-4%	0%	15,700	3%	3%	3%
NSA2_R29 NSA2_R30	Residential (Single dwelling)	403	454	436	-4%	436	-4%	0%	15,700	3%	3%	3%
NSA2_R30 NSA2_R31	Residential (Single dwelling)	403	451	434	-4%	434	-4%	0%	15,700	3%	3%	3%
NSA2_R31 NSA2_R32	Residential (Single dwelling)  Residential (Single dwelling)	403	443	429	-3%	429	-3%	0%	15,700	3%	3%	3%
NSA2_R33	Residential (Single dwelling)	403	440	427	-3%	427	-3%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)	403	439	426	-3%	426	-3%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)  Residential (Single dwelling)	403	448	433	-3%	433	-3%	0%	15,700	3%	3%	3%
NSA3_R01 NSA3_R02	Residential (Single dwelling)  Residential (Single dwelling)	403	448	432	-3%	432	-3%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)	403	458	439	-4%	439	-4%	0%	15,700	3%	3%	3%
NSA3_R03 NSA3_R04	Residential (Single dwelling)	403	479	459	-6%	452	-5%	0%	15,700	3%	3%	3%
NSA3_R04 NSA3_R05	Residential (Single dwelling)  Residential (Single dwelling)	403	472	448	-5%	448	-5%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)  Residential (Single dwelling)	403	440	427	-3%	427	-3%	0%	15,700	3%	3%	3%
NSA3_R06	Residential (Single dwelling)	403	440	421	-3%	421	-3%	υ%	15,700	<b>ა</b> %	5%	3%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No	-Build (2041)	F	uture Build (2041)				% of the AAQC	
ID	Туре	Concentration	8-hr Max Concentration	8-hr Max Concentration	% change from Existing Conditions	8-hr Max Concentration	% change from Existing Conditions	% change from No-Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	(µg/m³) 403	(μg/m³) 477	(μg/m³) 454	-5%	μg/m³ 454	-5%	0%	15,700	3%	3%	3%
NSA4_R01	Residential (Single dwelling)	403	459	442	-4%	442	-4%	0%	15,700	3%	3%	3%
NSA4_R03	Residential (Single dwelling)	403	464	443	-5%	443	-5%	0%	15,700	3%	3%	3%
NSA4_R04	Residential (Single dwelling)	403	449	434	-4%	434	-4%	0%	15,700	3%	3%	3%
NSA4_R05	Residential (Single dwelling)	403	475	449	-6%	449	-6%	0%	15,700	3%	3%	3%
NSA5 R01	Residential (Single dwelling)	403	486	460	-5%	460	-5%	0%	15,700	3%	3%	3%
NSA5 R02	Residential (Single dwelling)	403	444	431	-3%	431	-3%	0%	15,700	3%	3%	3%
NSA6_R01	Residential (Single dwelling)	403	527	489	-7%	489	-7%	0%	15,700	3%	3%	3%
NSA6 R02	Residential (Single dwelling)	403	519	482	-7%	482	-7%	0%	15,700	3%	3%	3%
NSA6 R03	Residential (Single dwelling)	403	518	482	-7%	482	-7%	0%	15,700	3%	3%	3%
NSA6_R04	Residential (Single dwelling)	403	482	457	-5%	457	-5%	0%	15,700	3%	3%	3%
NSA6 R05	Residential (Single dwelling)	403	491	463	-6%	463	-6%	0%	15,700	3%	3%	3%
NSA6_R06	Residential (Single dwelling)	403	506	475	-6%	475	-6%	0%	15,700	3%	3%	3%
NSA7_R01	Residential (Single dwelling)	403	483	455	-6%	456	-6%	0%	15,700	3%	3%	3%
NSA8 R01	Residential (Single dwelling)	403	467	444	-5%	444	-5%	0%	15,700	3%	3%	3%
NSA8_R02	Residential (Single dwelling)	403	536	487	-9%	487	-9%	0%	15,700	3%	3%	3%
 NSA8_R03	Residential (Single dwelling)	403	565	506	-11%	506	-11%	0%	15,700	4%	3%	3%
 NSA8_R04	Residential (Single dwelling)	403	502	465	-7%	465	-7%	0%	15,700	3%	3%	3%
NSA8 R05	Residential (Single dwelling)	403	489	457	-6%	457	-6%	0%	15,700	3%	3%	3%
NSA8 R06	Residential (Single dwelling)	403	487	456	-6%	456	-6%	0%	15,700	3%	3%	3%
NSA8_R07	Residential (Single dwelling)	403	476	449	-6%	449	-6%	0%	15,700	3%	3%	3%
NSA8_R08	Residential (Single dwelling)	403	462	441	-5%	441	-5%	0%	15,700	3%	3%	3%
NSA8_R09	Residential (Single dwelling)	403	455	436	-4%	436	-4%	0%	15,700	3%	3%	3%
NSA8_R10	Residential (Single dwelling)	403	457	437	-4%	437	-4%	0%	15,700	3%	3%	3%
NSA8_R11	Residential (Single dwelling)	403	457	437	-4%	437	-4%	0%	15,700	3%	3%	3%
NSA8_R12	Residential (Single dwelling)	403	467	443	-5%	443	-5%	0%	15,700	3%	3%	3%
NSA8_R13	Residential (Single dwelling)	403	456	437	-4%	437	-4%	0%	15,700	3%	3%	3%
NSA8_R14	Residential (Single dwelling)	403	452	434	-4%	434	-4%	0%	15,700	3%	3%	3%
NSA8_R15	Residential (Single dwelling)	403	453	434	-4%	434	-4%	0%	15,700	3%	3%	3%
NSA8_R16	Residential (Single dwelling)	403	456	434	-5%	435	-5%	0%	15,700	3%	3%	3%
NSA8_R17	Residential (Townhouse)	403	454	435	-4%	435	-4%	0%	15,700	3%	3%	3%
NSA9_R01	Residential (Single dwelling)	403	458	437	-5%	438	-5%	0%	15,700	3%	3%	3%
NSA9_R02	Residential (Single dwelling)	403	454	435	-4%	435	-4%	0%	15,700	3%	3%	3%
NSA9_R03	Residential (Single dwelling)	403	458	438	-4%	438	-4%	0%	15,700	3%	3%	3%
NSA9_R04	Residential (Single dwelling)	403	457	437	-4%	437	-4%	0%	15,700	3%	3%	3%
NSA9_R05	Residential (Single dwelling)	403	450	433	-4%	433	-4%	0%	15,700	3%	3%	3%
NSA9_R06	Residential (Single dwelling)	403	456	437	-4%	437	-4%	0%	15,700	3%	3%	3%
NSA9_R07	Residential (Single dwelling)	403	449	433	-4%	433	-4%	0%	15,700	3%	3%	3%
NSA9_R08	Residential (Single dwelling)	403	459	436	-5%	436	-5%	0%	15,700	3%	3%	3%
NSA9_R09	Residential (Single dwelling)	403	460	436	-5%	437	-5%	0%	15,700	3%	3%	3%
NSA9_R10	Residential (Single dwelling)	403	460	436	-5%	436	-5%	0%	15,700	3%	3%	3%
NSA9_R11	Residential (Single dwelling)	403	458	436	-5%	436	-5%	0%	15,700	3%	3%	3%
NSA9_R13	Residential (Single dwelling)	403	456	436	-4%	437	-4%	0%	15,700	3%	3%	3%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No	-Build (2041)	F	uture Build (2041)				% of the AAQC	
ID	Туре	Concentration	8-hr Max Concentration	8-hr Max Concentration	% change from Existing Conditions	8-hr Max Concentration	% change from Existing Conditions	% change from No-Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R14	Residential (Single dwelling)	(μg/m³) 403	(μg/m³) 458	(µg/m³) 437	-5%	μg/m³ 437	-5%	0%	15,700	3%	3%	3%
NSA9_R15	Residential (Single dwelling)	403	531	480	-10%	480	-10%	0%	15,700	3%	3%	3%
NSA10 R01	Residential (Single dwelling)	403	464	440	-5%	440	-5%	0%	15,700	3%	3%	3%
NSA10 R02	Residential (Single dwelling)	403	484	453	-6%	453	-6%	0%	15,700	3%	3%	3%
NSA10_R03	Residential (Single dwelling)	403	472	446	-6%	446	-6%	0%	15,700	3%	3%	3%
NSA10_R04	Residential (Single dwelling)	403	476	448	-6%	448	-6%	0%	15,700	3%	3%	3%
NSA10_R05	Residential (Single dwelling)	403	482	451	-6%	451	-6%	0%	15,700	3%	3%	3%
NSA10_R06	Residential (Single dwelling)	403	487	454	-7%	454	-7%	0%	15,700	3%	3%	3%
NSA10_R07	Residential (Single dwelling)	403	490	456	-7%	456	-7%	0%	15,700	3%	3%	3%
NSA10_R08	Residential (Single dwelling)	403	492	457	-7%	457	-7%	0%	15,700	3%	3%	3%
NSA10_R09	Residential (Single dwelling)	403	493	458	-7%	458	-7%	0%	15,700	3%	3%	3%
NSA10_R10	Residential (Single dwelling)	403	494	458	-7%	458	-7%	0%	15,700	3%	3%	3%
NSA10_R11	Residential (Single dwelling)	403	493	458	-7%	458	-7%	0%	15,700	3%	3%	3%
NSA10_R12	Residential (Single dwelling)	403	494	458	-7%	458	-7%	0%	15,700	3%	3%	3%
NSA10_R13	Residential (Single dwelling)	403	494	458	-7%	458	-7%	0%	15,700	3%	3%	3%
NSA10_R14	Residential (Single dwelling)	403	619	533	-14%	533	-14%	0%	15,700	4%	3%	3%
NSA10_R15	Residential (Single dwelling)	403	574	506	-12%	506	-12%	0%	15,700	4%	3%	3%
NSA10_R16	Residential (Single dwelling)	403	841	663	-21%	663	-21%	0%	15,700	5%	4%	4%
NSA11_R01	Residential (Single dwelling)	403	552	487	-12%	487	-12%	0%	15,700	4%	3%	3%
NSA12_R01	Residential (Single dwelling)	403	527	467	-11%	467	-11%	0%	15,700	3%	3%	3%
NSA12_R02	Residential (Single dwelling)	403	524	465	-11%	465	-11%	0%	15,700	3%	3%	3%
NSA12_R03	Residential (Single dwelling)	403	527	469	-11%	469	-11%	0%	15,700	3%	3%	3%
NSA12_R04	Residential (Single dwelling)	403	494	452	-8%	452	-8%	0%	15,700	3%	3%	3%
NSA12_R05	Residential (Single dwelling)	403	492	451	-8%	451	-8%	0%	15,700	3%	3%	3%
NSA12_R06	Residential (Single dwelling)	403	493	451	-8%	451	-8%	0%	15,700	3%	3%	3%
NSA12_R07	Residential (Single dwelling)	403	491	451	-8%	451	-8%	0%	15,700	3%	3%	3%
NSA12_R08	Residential (Single dwelling)	403	650	533	-18%	533	-18%	0%	15,700	4%	3%	3%
_	Residential (Single dwelling)	403	577	494	-14%	495	-14%	0%	15,700	4%	3%	3%
	Residential (Single dwelling)	403 403	635 533	525 472	-17% -11%	525 472	-17% -11%	0% 0%	15,700 15,700	4% 3%	3% 3%	3% 3%
	Residential (Single dwelling)	403	533	472	-11%	472	-11%	0%	15,700	3%	3%	3%
NSA12_R12 NSA12_R13	Residential (Single dwelling) Residential (Single dwelling)	403	526	469	-11%	469	-11%	0%	15,700	3%	3%	3%
_	Residential (Single dwelling)  Residential (Single dwelling)	403	519	465	-10%	465	-10%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)  Residential (Single dwelling)	403	510	461	-10%	461	-10%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)	403	616	515	-16%	515	-16%	0%	15,700	4%	3%	3%
NSA12_R17	Residential (Single dwelling)	403	507	459	-9%	459	-9%	0%	15,700	3%	3%	3%
	Residential (Single dwelling)	403	506	459	-9%	459	-9%	0%	15,700	3%	3%	3%
_	Residential (Townhouse)	403	595	504	-15%	504	-15%	0%	15,700	4%	3%	3%
	Residential (Townhouse)	403	744	583	-22%	583	-22%	0%	15,700	5%	4%	4%
_	Residential (Townhouse)	403	698	559	-20%	559	-20%	0%	15,700	4%	4%	4%
NSA12_R22	Residential (Townhouse)	403	612	513	-16%	513	-16%	0%	15,700	4%	3%	3%
NSA12_R23	Residential (Townhouse)	403	519	464	-11%	464	-11%	0%	15,700	3%	3%	3%
NSA12_R24	Residential (Townhouse)	403	548	480	-12%	480	-12%	0%	15,700	3%	3%	3%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No	-Build (2041)	F	uture Build (2041)				% of the AAQC	
ID	Туре	Concentration	8-hr Max Concentration	8-hr Max Concentration	% change from Existing Conditions	8-hr Max Concentration	% change from Existing	% change from No-Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m³	Conditions	001	45.500	10/	201	201
NSA12_R25	Residential (Single dwelling)	403	586	500	-15%	500	-15%	0%	15,700	4%	3%	3%
NSA12_R26	Residential (Single dwelling)	403	566	489	-14%	489	-14%	0%	15,700	4%	3%	3%
NSA12_R27	Residential (Single dwelling)	403	561	487	-13%	487	-13%	0%	15,700	4%	3%	3%
NSA12_R28	Residential (Single dwelling)	403	562	488	-13%	488	-13%	0%	15,700	4%	3%	3%
NSA12_R29	Residential (Single dwelling)	403	590	503	-15%	503	-15%	0%	15,700	4%	3%	3%
NSA12_R30	Residential (Single dwelling)	403	634	527	-17%	527	-17%	0%	15,700	4%	3%	3%
NSA12_R31	Residential (Single dwelling)	403	704	564	-20%	564	-20%	0%	15,700	4%	4%	4%
NSA12_R32	Residential (Single dwelling)	403	739	583	-21%	583	-21%	0%	15,700	5%	4%	4%
NSA12_R33	Residential (Single dwelling)	403	528	469	-11%	469	-11%	0%	15,700	3%	3%	3%
NSA12_R34	Residential (Townhouse)	403	504	458	-9%	458	-9%	0%	15,700	3%	3%	3%
NSA12_R35	Residential (Townhouse)	403	505	459	-9%	459	-9%	0%	15,700	3%	3%	3%
NSA12_R36	Residential (Townhouse)	403	506	459	-9%	459	-9%	0%	15,700	3%	3%	3%
NSA12_R37	Residential (Townhouse)	403	504	458	-9%	458	-9%	0%	15,700	3%	3%	3%
NSA12_R38	Residential (Townhouse)	403	505	459	-9%	459	-9%	0%	15,700	3%	3%	3%
NSA12_R39	Residential (Townhouse)	403	503	458	-9%	458	-9%	0%	15,700	3%	3%	3%
NSA12_R40	Residential (Single dwelling)	403	485	448	-8%	448	-8%	0%	15,700	3%	3%	3%
NSA12_R41	Residential (Single dwelling)	403	503	457	-9%	457	-9%	0%	15,700	3%	3%	3%
NSA12_R42	Residential (Single dwelling)	403	502	457	-9%	457	-9%	0%	15,700	3%	3%	3%
NSA12_R43	Residential (Single dwelling)	403	499	455	-9%	455	-9%	0%	15,700	3%	3%	3%
NSA12_R44	Residential (Single dwelling)	403	497	454	-9%	454	-9%	0%	15,700	3%	3%	3%
NSA12_R45	Residential (Single dwelling)	403	494	453	-8%	453	-8%	0%	15,700	3%	3%	3%
NSA12_R46	Residential (Single dwelling)	403	491	451	-8%	452	-8%	0%	15,700	3%	3%	3%
NSA12_R47	Residential (Single dwelling)	403	491	451	-8%	451	-8%	0%	15,700	3%	3%	3%
NSA12_R48	Residential (Single dwelling)	403	490	451	-8%	451	-8%	0%	15,700	3%	3%	3%
NSA12_R49	Residential (Townhouse)	403	490	450	-8%	450	-8%	0%	15,700	3%	3%	3%
NSA12_R50	Residential (Single dwelling)	403	737	583	-21%	583	-21%	0%	15,700	5%	4%	4%
NSA12_R51	Residential (Single dwelling)	403	740	584	-21%	584	-21%	0%	15,700	5%	4%	4%
NSA12_R52	Residential (Single dwelling)	403	713	570	-20%	570	-20%	0%	15,700	5%	4%	4%
NSA12_R53	Residential (Single dwelling)	403	735	581	-21%	582	-21%	0%	15,700	5%	4%	4%
NSA12_R54	Residential (Single dwelling)	403	722	575	-20%	575	-20%	0%	15,700	5%	4%	4%
NSA12_R55	Residential (Single dwelling)	403	697	561	-19%	561	-19%	0%	15,700	4%	4%	4%
NSA12_R56	Residential (Single dwelling)	403	717	572	-20%	572	-20%	0%	15,700	5%	4%	4%
NSA12_R57	Residential (Single dwelling)	403	724	576	-20%	576	-20%	0%	15,700	5%	4%	4%
NSA12_R58	Residential (Single dwelling)	403	727	577	-21%	578	-21%	0%	15,700	5%	4%	4%
NSA12_R59	Residential (Single dwelling)	403	728	578	-21%	578	-21%	0%	15,700	5%	4%	4%
NSA12_R60	Residential (Single dwelling)	403	724	576	-20%	576	-20%	0%	15,700	5%	4%	4%
NSA12_R61	Residential (Single dwelling)	403	666	545	-18%	545	-18%	0%	15,700	4%	3%	3%
NSA12_R62	Residential (Single dwelling)	403	495	453	-9%	453	-9%	0%	15,700	3%	3%	3%
 NSA12_R63	Residential (Single dwelling)	403	492	451	-8%	451	-8%	0%	15,700	3%	3%	3%
 NSA12_R64	Residential (Single dwelling)	403	496	453	-9%	453	-9%	0%	15,700	3%	3%	3%
NSA12_R65	Residential (Single dwelling)	403	496	453	-9%	453	-9%	0%	15,700	3%	3%	3%

Table B-14 24-hr Maximum Acetaldehyde Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	Ambient Air Quality Criteria (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1_R01	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA1_R02	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA1_R03	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA1_R04	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA1_R05	Residential (Condominium)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R06	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R07	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R08	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R09	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R10	Residential (Townhouse)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R11	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R12	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R13	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R14	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R15	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R16	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R17	Residential (Townhouse)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA1_R18	Residential (Townhouse)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA1_R19	Residential (Townhouse)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA1_R20	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R21	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R22	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R23	Residential (Townhouse)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R24	Residential (Townhouse)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R25	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R26	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R27	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R28	Residential (Townhouse)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R29	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA1_R30	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA1_R31	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R32	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA1_R33	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R34	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R35	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R36	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R37	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R38	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R39	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R40	Residential (Single dwelling)	1.76	1.80	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA1_R41	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	suild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	Ambient Air Quality Criteria (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA4 D40	Desidential (Cingle desilling)	(µg/m³)	(μg/m³)	(μg/m³) 1.77	-1%	μg/m³ 1.77	-1%	00/	500	00/	00/	0%
NSA1_R42	Residential (Single dwelling)	1.76 1.76	1.79 1.79	1.77	-1%	1.77	-1%	0% 0%	500	0% 0%	0%	0%
NSA1_R43	Residential (Single dwelling)							<b>.</b>				
NSA1_R44	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA2_R01	Residential (Single dwelling)	1.76	1.80	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R02	Residential (Single dwelling)	1.76	1.80	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R03	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R04	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R05	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R06	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R07	Residential (Townhouse)	1.76	1.80	1.77	-2%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R08	Residential (Townhouse)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R09	Residential (Townhouse)	1.76	1.80	1.77	-2%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R10	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R11	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R12	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R13	Residential (Townhouse)	1.76	1.80	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R14	Residential (Townhouse)	1.76	1.80	1.77	-2%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R15	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA2_R16	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA2_R17	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA2_R18	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R19	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R20	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R21	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R22	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R23	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R24	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA2_R25	Residential (Townhouse)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R26	Residential (Townhouse)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R27	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R28	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R29	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R30	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R31	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R32	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R33	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA2_R34	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA3_R01	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA3_R02	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA3_R03	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA3_R04	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA3_R05	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA3_R06	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	Ambient Air Quality Criteria (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Conditions	μg/m³	, in the second					
NSA4_R01	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA4_R02	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA4_R03	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA4_R04	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA4_R05	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA5_R01	Residential (Single dwelling)	1.76	1.77	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA5_R02	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA6_R01	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA6_R02	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA6_R03	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA6_R04	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA6_R05	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA6_R06	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA7_R01	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R01	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	0%	0%	500	0%	0%	0%
NSA8_R02	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA8_R03	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA8_R04	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA8_R05	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA8_R06	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA8_R07	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA8_R08	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R09	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R10	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R11	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R12	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R13	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R14	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R15	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA8_R17	Residential (Townhouse)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R01	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R02	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R03	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R04	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R05	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R06	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R07	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R08	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R09	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R10	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R11	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R13	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	Ambient Air Quality Criteria (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Conditions	μg/m³	, in the second					
NSA9_R14	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA9_R15	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R01	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA10_R02	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA10_R03	Residential (Single dwelling)	1.76	1.77	1.76	0%	1.76	0%	0%	500	0%	0%	0%
NSA10_R04	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA10_R05	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA10_R06	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R07	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R08	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R09	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R10	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R11	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R12	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R13	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R14	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA10_R15	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA10_R16	Residential (Single dwelling)	1.76	1.84	1.78	-3%	1.78	-3%	0%	500	0%	0%	0%
NSA11_R01	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R01	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R02	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R03	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R04	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R05	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R06	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R07	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R08	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R09	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R10	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R11	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R12	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R13	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R14	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R15	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R16	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R17	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R18	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R19	Residential (Townhouse)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R20	Residential (Townhouse)	1.76	1.82	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R21	Residential (Townhouse)	1.76	1.81	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R22	Residential (Townhouse)	1.76	1.80	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R23	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R24	Residential (Townhouse)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	Ambient Air Quality Criteria (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NO. 40 DO.		(µg/m³)	(µg/m³)	(µg/m°)	Conditions	μg/m³	40/	00/	500	00/	00/	00/
NSA12_R25	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R26	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R27	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R28	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R29	Residential (Single dwelling)	1.76	1.79	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
NSA12_R30	Residential (Single dwelling)	1.76	1.80	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R31	Residential (Single dwelling)	1.76	1.81	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R32	Residential (Single dwelling)	1.76	1.82	1.78	-2%	1.78	-2%	0%	500	0%	0%	0%
NSA12_R33	Residential (Single dwelling)	1.76	1.78	1.77	-1%	1.77	-1%	0%	500	0%	0%	0%
	Residential (Townhouse)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R35	Residential (Townhouse)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R36	Residential (Townhouse)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R37	Residential (Townhouse)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R38	Residential (Townhouse)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R39	Residential (Townhouse)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R40	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R41	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R42	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R43	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R44	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R45	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R46	Residential (Single dwelling)	1.76	1.77	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R47	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R48	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R49	Residential (Townhouse)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R50	Residential (Single dwelling)	1.76	1.82	1.77	-2%	1.78	-2%	0%	500	0%	0%	0%
NSA12_R51	Residential (Single dwelling)	1.76	1.82	1.78	-2%	1.78	-2%	0%	500	0%	0%	0%
NSA12_R52	Residential (Single dwelling)	1.76	1.81	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R53	Residential (Single dwelling)	1.76	1.82	1.78	-2%	1.78	-2%	0%	500	0%	0%	0%
NSA12_R54	Residential (Single dwelling)	1.76	1.82	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R55	Residential (Single dwelling)	1.76	1.81	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R56	Residential (Single dwelling)	1.76	1.82	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R57	Residential (Single dwelling)	1.76	1.82	1.77	-2%	1.78	-2%	0%	500	0%	0%	0%
NSA12_R58	Residential (Single dwelling)	1.76	1.82	1.77	-2%	1.78	-2%	0%	500	0%	0%	0%
NSA12_R59	Residential (Single dwelling)	1.76	1.82	1.78	-2%	1.78	-2%	0%	500	0%	0%	0%
NSA12_R60	Residential (Single dwelling)	1.76	1.82	1.78	-2%	1.78	-2%	0%	500	0%	0%	0%
NSA12_R61	Residential (Single dwelling)	1.76	1.81	1.77	-2%	1.77	-2%	0%	500	0%	0%	0%
NSA12_R62	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R63	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R64	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%
NSA12_R65	Residential (Single dwelling)	1.76	1.78	1.76	-1%	1.76	-1%	0%	500	0%	0%	0%

Table B-15 1-hr Maximum Acrolein Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	-nr Maximum Acrolein Concentrations  Receptor	Background <sup>(1)</sup>	Existing Conditions (2018)	Future No-l			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	1-hr Max Concentration	1-hr Max Concentration	% change from Existing Conditions	1-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NCA4 DO4	Desidential (Circula durallina)	(μg/m³) 0.17	(µg/m³) 0.186	(μg/m³) 0.175	-6%	μg/m³ 0.1749	-6%	0.2%	4.5	4%	4%	4%
NSA1_R01	Residential (Single dwelling)	0.17	0.185	0.175	-6%	0.1748	-6%	0.1%	4.5	4%	4%	4%
NSA1_R02	Residential (Single dwelling)  Residential (Single dwelling)	0.17	0.184	0.173	-5%	0.1745	-5%	0.1%	4.5	4%	4%	4%
NSA1_R03	, , ,	0.17	0.186	0.174	-6%	0.1750	-6%	0.1%	4.5	4%	4%	4%
NSA1_R04 NSA1_R05	Residential (Single dwelling)  Residential (Condominium)	0.17	0.183	0.174	-5%	0.1739	-5%	0.1%	4.5	4%	4%	4%
NSA1_R05 NSA1_R06	Residential (Condominum)  Residential (Townhouse)	0.17	0.183	0.174	-5%	0.1740	-5%	0.1%	4.5	4%	4%	4%
NSA1_R00	Residential (Townhouse)	0.17	0.184	0.174	-5%	0.1741	-5%	0.1%	4.5	4%	4%	4%
NSA1_R08	Residential (Townhouse)	0.17	0.185	0.174	-6%	0.1744	-6%	0.1%	4.5	4%	4%	4%
NSA1 R09	Residential (Townhouse)	0.17	0.185	0.174	-6%	0.1744	-6%	0.1%	4.5	4%	4%	4%
NSA1_R10	Residential (Townhouse)	0.17	0.185	0.174	-6%	0.1744	-6%	0.1%	4.5	4%	4%	4%
NSA1 R11	Residential (Townhouse)	0.17	0.184	0.174	-5%	0.1742	-5%	0.1%	4.5	4%	4%	4%
NSA1_R12	Residential (Townhouse)	0.17	0.182	0.173	-5%	0.1736	-5%	0.1%	4.5	4%	4%	4%
NSA1 R13	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1737	-5%	0.1%	4.5	4%	4%	4%
NSA1 R14	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1734	-4%	0.1%	4.5	4%	4%	4%
NSA1 R15	Residential (Townhouse)	0.17	0.183	0.174	-5%	0.1740	-5%	0.1%	4.5	4%	4%	4%
NSA1_R16	Residential (Townhouse)	0.17	0.182	0.174	-5%	0.1737	-5%	0.1%	4.5	4%	4%	4%
NSA1_R17	Residential (Townhouse)	0.17	0.179	0.173	-4%	0.1728	-4%	0.1%	4.5	4%	4%	4%
NSA1 R18	Residential (Townhouse)	0.17	0.185	0.174	-6%	0.1746	-5%	0.1%	4.5	4%	4%	4%
NSA1 R19	Residential (Townhouse)	0.17	0.185	0.174	-6%	0.1748	-6%	0.1%	4.5	4%	4%	4%
NSA1 R20	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1734	-4%	0.1%	4.5	4%	4%	4%
NSA1_R21	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1741	-5%	0.1%	4.5	4%	4%	4%
 NSA1_R22	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1735	-4%	0.1%	4.5	4%	4%	4%
NSA1 R23	Residential (Townhouse)	0.17	0.181	0.173	-4%	0.1736	-4%	0.1%	4.5	4%	4%	4%
NSA1 R24	Residential (Townhouse)	0.17	0.180	0.173	-4%	0.1733	-4%	0.1%	4.5	4%	4%	4%
NSA1 R25	Residential (Townhouse)	0.17	0.179	0.173	-4%	0.1730	-4%	0.1%	4.5	4%	4%	4%
 NSA1_R26	Residential (Townhouse)	0.17	0.178	0.172	-3%	0.1725	-3%	0.1%	4.5	4%	4%	4%
NSA1_R27	Residential (Townhouse)	0.17	0.180	0.173	-4%	0.1731	-4%	0.1%	4.5	4%	4%	4%
NSA1_R28	Residential (Townhouse)	0.17	0.183	0.174	-5%	0.1740	-5%	0.1%	4.5	4%	4%	4%
NSA1_R29	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1722	-3%	0.0%	4.5	4%	4%	4%
NSA1_R30	Residential (Single dwelling)	0.17	0.178	0.172	-3%	0.1724	-3%	0.0%	4.5	4%	4%	4%
NSA1_R31	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1731	-4%	0.1%	4.5	4%	4%	4%
NSA1_R32	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1729	-4%	0.1%	4.5	4%	4%	4%
NSA1_R33	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1732	-4%	0.1%	4.5	4%	4%	4%
NSA1_R34	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1739	-5%	0.1%	4.5	4%	4%	4%
NSA1_R35	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1740	-5%	0.1%	4.5	4%	4%	4%
NSA1_R36	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1741	-5%	0.1%	4.5	4%	4%	4%
NSA1_R37	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1735	-4%	0.1%	4.5	4%	4%	4%
NSA1_R38	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1737	-5%	0.1%	4.5	4%	4%	4%
NSA1_R39	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1741	-5%	0.1%	4.5	4%	4%	4%
NSA1_R40	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1741	-5%	0.1%	4.5	4%	4%	4%
NSA1_R41	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1733	-4%	0.1%	4.5	4%	4%	4%

Receptor	Receptor	Background (1)	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	1-hr Max Concentration (μg/m³)	1-hr Max Concentration (μg/m³)	% change from Existing Conditions	1-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R42	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1739	-5%	0.1%	4.5	4%	4%	4%
NSA1 R43	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1741	-5%	0.1%	4.5	4%	4%	4%
NSA1 R44	Residential (Single dwelling)	0.17	0.179	0.173	-4%	0.1728	-4%	0.0%	4.5	4%	4%	4%
NSA2_R01	Residential (Single dwelling)	0.17	0.184	0.174	-5%	0.1743	-5%	0.1%	4.5	4%	4%	4%
NSA2_R02	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1742	-5%	0.1%	4.5	4%	4%	4%
NSA2_R03	Residential (Single dwelling)	0.17	0.184	0.174	-5%	0.1744	-5%	0.1%	4.5	4%	4%	4%
NSA2_R04	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1734	-4%	0.1%	4.5	4%	4%	4%
NSA2_R05	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1741	-5%	0.1%	4.5	4%	4%	4%
NSA2_R06	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1738	-5%	0.1%	4.5	4%	4%	4%
NSA2_R07	Residential (Townhouse)	0.17	0.184	0.174	-5%	0.1745	-5%	0.1%	4.5	4%	4%	4%
	Residential (Townhouse)	0.17	0.184	0.174	-5%	0.1743	-5%	0.1%	4.5	4%	4%	4%
NSA2_R09	Residential (Townhouse)	0.17	0.184	0.174	-5%	0.1745	-5%	0.1%	4.5	4%	4%	4%
NSA2_R10	Residential (Single dwelling)	0.17	0.184	0.174	-5%	0.1743	-5%	0.1%	4.5	4%	4%	4%
	Residential (Single dwelling)	0.17	0.184	0.174	-5%	0.1744	-5%	0.1%	4.5	4%	4%	4%
NSA2_R12	Residential (Single dwelling)	0.17	0.184	0.174	-5%	0.1743	-5%	0.1%	4.5	4%	4%	4%
	Residential (Townhouse)	0.17 0.17	0.184 0.185	0.174 0.174	-5% -6%	0.1744 0.1746	-5% -5%	0.1% 0.1%	4.5 4.5	4% 4%	4% 4%	4% 4%
NSA2_R14 NSA2_R15	Residential (Townhouse)	0.17	0.185	0.174	-6%	0.1747	-6%	0.1%	4.5	4%	4%	4%
NSA2_R16	Residential (Single dwelling) Residential (Single dwelling)	0.17	0.186	0.175	-6%	0.1750	-6%	0.1%	4.5	4%	4%	4%
NSA2_R17	Residential (Single dwelling)	0.17	0.187	0.175	-6%	0.1753	-6%	0.1%	4.5	4%	4%	4%
NSA2_R18	Residential (Single dwelling)	0.17	0.186	0.175	-6%	0.1751	-6%	0.1%	4.5	4%	4%	4%
NSA2_R19	Residential (Single dwelling)	0.17	0.182	0.173	-5%	0.1736	-4%	0.1%	4.5	4%	4%	4%
NSA2_R20	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1736	-5%	0.1%	4.5	4%	4%	4%
	Residential (Townhouse)	0.17	0.189	0.175	-7%	0.1753	-7%	0.0%	4.5	4%	4%	4%
NSA2_R22	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1730	-4%	0.0%	4.5	4%	4%	4%
NSA2_R23	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1731	-4%	0.0%	4.5	4%	4%	4%
NSA2_R24	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1734	-4%	0.1%	4.5	4%	4%	4%
NSA2_R25	Residential (Townhouse)	0.17	0.176	0.172	-3%	0.1718	-3%	0.0%	4.5	4%	4%	4%
NSA2_R26	Residential (Townhouse)	0.17	0.175	0.171	-2%	0.1714	-2%	0.0%	4.5	4%	4%	4%
NSA2_R27	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1716	-2%	0.0%	4.5	4%	4%	4%
NSA2_R28	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1723	-2%	0.3%	4.5	4%	4%	4%
NSA2_R29	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1721	-2%	0.2%	4.5	4%	4%	4%
NSA2_R30	Residential (Single dwelling)	0.17	0.176	0.172	-3%	0.1722	-2%	0.1%	4.5	4%	4%	4%
	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1719	-2%	0.1%	4.5	4%	4%	4%
NSA2_R32	Residential (Single dwelling)	0.17	0.175	0.172	-2%	0.1717	-2%	0.0%	4.5	4%	4%	4%
	Residential (Single dwelling)	0.17 0.17	0.175 0.175	0.172 0.172	-2% -2%	0.1717 0.1718	-2% -2%	0.0%	4.5 4.5	4% 4%	4% 4%	4% 4%
NSA2_R34 NSA3_R01	Residential (Single dwelling)	0.17	0.175	0.172	-2% -2%	0.1718	-2%	0.0%	4.5	4%	4%	4%
	Residential (Single dwelling) Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1721	-2%	0.0%	4.5	4%	4%	4%
	Residential (Single dwelling)  Residential (Single dwelling)	0.17	0.178	0.172	-3%	0.1727	-3%	0.0%	4.5	4%	4%	4%
NSA3_R03 NSA3_R04	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1736	-4%	0.0%	4.5	4%	4%	4%
NSA3_R05	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1734	-3%	0.0%	4.5	4%	4%	4%
NSA3_R06	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1721	-2%	0.1%	4.5	4%	4%	4%

Receptor	Receptor	Background (1)	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	1-hr Max Concentration (μg/m³)	1-hr Max Concentration (µg/m³)	% change from Existing Conditions	1-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	0.17	0.183	0.174	-4%	0.1745	-4%	0.1%	4.5	4%	4%	4%
NSA4 R02	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1725	-3%	0.0%	4.5	4%	4%	4%
NSA4 R03	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1731	-4%	0.0%	4.5	4%	4%	4%
NSA4_R04	Residential (Single dwelling)	0.17	0.178	0.173	-3%	0.1726	-3%	0.0%	4.5	4%	4%	4%
NSA4_R05	Residential (Single dwelling)	0.17	0.177	0.172	-2%	0.1724	-2%	0.0%	4.5	4%	4%	4%
NSA5_R01	Residential (Single dwelling)	0.17	0.179	0.173	-3%	0.1733	-3%	0.0%	4.5	4%	4%	4%
NSA5_R02	Residential (Single dwelling)	0.17	0.179	0.173	-3%	0.1730	-3%	0.1%	4.5	4%	4%	4%
NSA6_R01	Residential (Single dwelling)	0.17	0.187	0.176	-6%	0.1762	-6%	0.1%	4.5	4%	4%	4%
NSA6_R02	Residential (Single dwelling)	0.17	0.188	0.176	-6%	0.1763	-6%	0.1%	4.5	4%	4%	4%
NSA6_R03	Residential (Single dwelling)	0.17	0.188	0.176	-6%	0.1769	-6%	0.4%	4.5	4%	4%	4%
NSA6_R04	Residential (Single dwelling)	0.17	0.184	0.175	-5%	0.1748	-5%	0.1%	4.5	4%	4%	4%
NSA6_R05	Residential (Single dwelling)	0.17	0.184	0.175	-5%	0.1752	-5%	0.1%	4.5	4%	4%	4%
NSA6_R06	Residential (Single dwelling)	0.17	0.183	0.175	-5%	0.1746	-5%	0.0%	4.5	4%	4%	4%
NSA7_R01	Residential (Single dwelling)	0.17	0.180	0.173	-3%	0.1734	-3%	0.0%	4.5	4%	4%	4%
NSA8_R01	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1723	-3%	0.0%	4.5	4%	4%	4%
NSA8_R02	Residential (Single dwelling)	0.17	0.187	0.175	-6%	0.1757	-6%	0.1%	4.5	4%	4%	4%
NSA8_R03	Residential (Single dwelling)	0.17	0.188	0.176	-7%	0.1763	-6%	0.2%	4.5	4%	4%	4%
NSA8_R04	Residential (Single dwelling)	0.17	0.182	0.174	-4%	0.1739	-4%	0.1%	4.5	4%	4%	4%
NSA8_R05	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1733	-4%	0.1%	4.5	4%	4%	4%
NSA8_R06	Residential (Single dwelling)	0.17 0.17	0.180 0.178	0.173 0.173	-4% -3%	0.1733 0.1728	-4% -3%	0.1% 0.0%	4.5 4.5	4% 4%	4% 4%	4% 4%
NSA8_R07 NSA8_R08	Residential (Single dwelling) Residential (Single dwelling)	0.17	0.177	0.173	-3%	0.1725	-3%	0.1%	4.5	4%	4%	4%
NSA8_R09	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1724	-2%	0.1%	4.5	4%	4%	4%
NSA8 R10	Residential (Single dwelling)	0.17	0.178	0.172	-3%	0.1728	-3%	0.2%	4.5	4%	4%	4%
NSA8 R11	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1727	-3%	0.2%	4.5	4%	4%	4%
NSA8_R12	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1722	-3%	0.1%	4.5	4%	4%	4%
NSA8_R13	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1720	-2%	0.0%	4.5	4%	4%	4%
 NSA8_R14	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1720	-2%	0.1%	4.5	4%	4%	4%
NSA8_R15	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1722	-2%	0.1%	4.5	4%	4%	4%
NSA8_R16	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1722	-2%	0.2%	4.5	4%	4%	4%
NSA8_R17	Residential (Townhouse)	0.17	0.176	0.172	-2%	0.1720	-2%	0.1%	4.5	4%	4%	4%
NSA9_R01	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1720	-2%	0.1%	4.5	4%	4%	4%
NSA9_R02	Residential (Single dwelling)	0.17	0.175	0.172	-2%	0.1718	-2%	0.0%	4.5	4%	4%	4%
NSA9_R03	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1720	-2%	0.1%	4.5	4%	4%	4%
NSA9_R04	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1720	-2%	0.1%	4.5	4%	4%	4%
NSA9_R05	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1718	-2%	0.0%	4.5	4%	4%	4%
NSA9_R06	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1721	-3%	0.0%	4.5	4%	4%	4%
NSA9_R07	Residential (Single dwelling)	0.17	0.176	0.172	-2%	0.1719	-2%	0.0%	4.5	4%	4%	4%
NSA9_R08	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1720	-3%	0.0%	4.5	4%	4%	4%
NSA9_R09	Residential (Single dwelling)	0.17	0.176	0.172	-3%	0.1720	-2%	0.0%	4.5	4%	4%	4%
NSA9_R10	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1721	-3%	0.0%	4.5	4%	4%	4%
NSA9_R11	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1721	-3%	0.0%	4.5	4%	4%	4%
NSA9_R13	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1722	-3%	0.1%	4.5	4%	4%	4%

Receptor	Receptor	Background (1)	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	1-hr Max Concentration (μg/m³)	1-hr Max Concentration (µg/m³)	% change from Existing Conditions	1-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R14	Residential (Single dwelling)	0.17	0.177	0.172	-3%	0.1722	-3%	0.0%	4.5	4%	4%	4%
	Residential (Single dwelling)	0.17	0.183	0.174	-5%	0.1737	-5%	0.0%	4.5	4%	4%	4%
NSA10_R01	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1729	-4%	0.0%	4.5	4%	4%	4%
NSA10_R02	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1737	-5%	0.1%	4.5	4%	4%	4%
NSA10_R03	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1731	-4%	0.1%	4.5	4%	4%	4%
NSA10_R04	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1731	-4%	0.1%	4.5	4%	4%	4%
NSA10_R05	Residential (Single dwelling)	0.17	0.180	0.173	-4%	0.1731	-4%	0.1%	4.5	4%	4%	4%
NSA10_R06	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1734	-4%	0.1%	4.5	4%	4%	4%
	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1735	-4%	0.1%	4.5	4%	4%	4%
NSA10_R08	Residential (Single dwelling)	0.17	0.182	0.173	-5%	0.1736	-4%	0.1%	4.5	4%	4%	4%
NSA10_R09	Residential (Single dwelling)	0.17	0.182	0.173	-5%	0.1737	-4%	0.2%	4.5	4%	4%	4%
NSA10_R10	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1737	-5%	0.1%	4.5	4%	4%	4%
NSA10_R11	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1737	-5%	0.1%	4.5	4%	4%	4%
NSA10_R12	Residential (Single dwelling)	0.17	0.182	0.173	-5%	0.1737	-4%	0.1%	4.5	4%	4%	4%
NSA10_R13	Residential (Single dwelling)	0.17	0.182	0.174	-5%	0.1737	-5%	0.1%	4.5	4%	4%	4%
NSA10_R14	Residential (Single dwelling)	0.17	0.204	0.180	-12%	0.1798	-12%	0.0%	4.5	5%	4%	4%
NSA10_R15	Residential (Single dwelling)	0.17	0.191	0.176	-8%	0.1762	-8%	0.0%	4.5	4%	4%	4%
NSA10_R16	Residential (Single dwelling)	0.17	0.230	0.187	-18%	0.1874	-18%	0.0%	4.5	5%	4%	4%
NSA11_R01	Residential (Single dwelling)	0.17	0.193	0.177	-9%	0.1769	-8%	0.1%	4.5	4%	4%	4%
NSA12_R01	Residential (Single dwelling)	0.17	0.196	0.177	-10%	0.1769	-10%	0.1%	4.5	4%	4%	4%
NSA12_R02	Residential (Single dwelling)	0.17	0.195	0.177	-9%	0.1767	-9%	0.0%	4.5	4%	4%	4%
NSA12_R03	Residential (Single dwelling)	0.17	0.196	0.177	-10%	0.1769	-10%	0.0%	4.5	4%	4%	4%
NSA12_R04	Residential (Single dwelling)	0.17	0.186	0.175	-6%	0.1747	-6%	0.1%	4.5	4%	4%	4%
NSA12_R05	Residential (Single dwelling)	0.17	0.186	0.175	-6%	0.1746	-6%	0.1%	4.5	4%	4%	4%
NSA12_R06	Residential (Single dwelling)	0.17	0.186	0.174	-6%	0.1746	-6%	0.1%	4.5	4%	4%	4%
NSA12_R07	Residential (Single dwelling)	0.17	0.185	0.174	-6%	0.1743	-6%	0.0%	4.5	4%	4%	4%
NSA12_R08	Residential (Single dwelling)	0.17	0.197	0.177	-10%	0.1774	-10%	0.1%	4.5	4%	4%	4%
NSA12_R09	Residential (Single dwelling)	0.17	0.189	0.175	-7%	0.1752	-7%	0.1%	4.5	4%	4%	4%
NSA12_R10	Residential (Single dwelling)	0.17	0.196	0.177	-10%	0.1770	-10%	0.1%	4.5	4%	4%	4%
	Residential (Single dwelling)	0.17	0.195	0.177	-9%	0.1768	-9%	0.0%	4.5	4%	4%	4%
NSA12_R12	Residential (Single dwelling)	0.17	0.195	0.177	-9%	0.1768	-9%	0.1%	4.5	4%	4%	4%
NSA12_R13	Residential (Single dwelling)	0.17	0.194	0.176	-9%	0.1765	-9%	0.1%	4.5	4%	4%	4%
NSA12_R14	Residential (Single dwelling)	0.17	0.194	0.177	-9%	0.1768	-9%	0.0%	4.5	4%	4%	4%
	Residential (Single dwelling)	0.17	0.195	0.177	-9%	0.1770	-9%	0.0%	4.5	4%	4%	4%
_	Residential (Single dwelling)	0.17	0.194	0.176	-9%	0.1764	-9%	0.1%	4.5	4%	4%	4%
	Residential (Single dwelling)	0.17	0.195	0.177	-9%	0.1771	-9%	0.0%	4.5	4%	4%	4%
NSA12_R18	Residential (Single dwelling)	0.17	0.196	0.177	-10%	0.1771	-9%	0.1%	4.5	4%	4%	4%
	Residential (Townhouse)	0.17	0.193	0.176	-9% 15%	0.1764	-9% 15%	0.0%	4.5	4%	4%	4% 4%
	Residential (Townhouse)	0.17 0.17	0.213 0.207	0.181	-15% -13%	0.1815	-15% -13%	0.1% 0.1%	4.5 4.5	5%	4% 4%	4%
	Residential (Townhouse)	0.17	0.207	0.180	-13% -10%	0.1800 0.1773	-13% -10%	0.1%	4.5	5% 4%	4%	4%
NSA12_R22	Residential (Townhouse)	0.17	0.197	0.177	-6%	0.1773	-6%	0.0%	4.5		4%	4%
NSA12_R23	Residential (Townhouse)	0.17	0.188	0.174	-7%	0.1740	-7%	0.0%		4%	4%	4%
NSA12_R24	Residential (Townhouse)	0.17	U. 188	0.1/5	-1 %	0.1750	-1 %	0.0%	4.5	4%	4%	4%

Receptor	Receptor	Background <sup>(1)</sup>	Existing Conditions (2018)	Future No-	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	1-hr Max Concentration	1-hr Max Concentration	% change from Existing Conditions	1-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA40 DOS		(µg/m³)	(µg/m³)	(µg/m³)	00/	μg/m³	00/	0.00/	4.5	40/	40/	40/
NSA12_R25	Residential (Single dwelling)	0.17	0.194	0.176	-9%	0.1764	-9%	0.0%	4.5	4%	4%	4%
NSA12_R26	Residential (Single dwelling)	0.17	0.191	0.176	-8%	0.1757	-8%	0.0%	4.5	4%	4%	4%
NSA12_R27	Residential (Single dwelling)	0.17	0.190	0.175	-8%	0.1755	-8%	0.0%	4.5	4%	4%	4%
NSA12_R28	Residential (Single dwelling)	0.17	0.190	0.175	-8%	0.1754	-8%	0.0%	4.5	4%	4%	4%
NSA12_R29	Residential (Single dwelling)	0.17	0.193	0.176	-9%	0.1762	-9%	0.0%	4.5	4%	4%	4%
NSA12_R30	Residential (Single dwelling)	0.17	0.198	0.178	-10%	0.1777	-10%	0.1%	4.5	4%	4%	4%
NSA12_R31	Residential (Single dwelling)	0.17	0.206	0.180	-13%	0.1799	-13%	0.1%	4.5	5%	4%	4%
NSA12_R32	Residential (Single dwelling)	0.17	0.211	0.181	-14%	0.1811	-14%	0.1%	4.5	5%	4%	4%
NSA12_R33	Residential (Single dwelling)	0.17	0.186	0.174	-6%	0.1743	-6%	0.0%	4.5	4%	4%	4%
NSA12_R34	Residential (Townhouse)	0.17	0.191	0.176	-8%	0.1759	-8%	0.1%	4.5	4%	4%	4%
NSA12_R35	Residential (Townhouse)	0.17	0.189	0.175	-7%	0.1754	-7%	0.1%	4.5	4%	4%	4%
NSA12_R36	Residential (Townhouse)	0.17	0.189	0.175	-7%	0.1752	-7%	0.1%	4.5	4%	4%	4%
NSA12_R37	Residential (Townhouse)	0.17	0.188	0.175	-7%	0.1750	-7%	0.1%	4.5	4%	4%	4%
NSA12_R38	Residential (Townhouse)	0.17	0.188	0.175	-7%	0.1749	-7%	0.1%	4.5	4%	4%	4%
NSA12_R39	Residential (Townhouse)	0.17	0.187	0.175	-7%	0.1747	-7%	0.1%	4.5	4%	4%	4%
NSA12_R40	Residential (Single dwelling)	0.17	0.185	0.174	-6%	0.1743	-6%	0.0%	4.5	4%	4%	4%
NSA12_R41	Residential (Single dwelling)	0.17	0.186	0.174	-6%	0.1745	-6%	0.1%	4.5	4%	4%	4%
NSA12_R42	Residential (Single dwelling)	0.17	0.186	0.174	-6%	0.1745	-6%	0.1%	4.5	4%	4%	4%
NSA12_R43	Residential (Single dwelling)	0.17	0.186	0.174	-6%	0.1743	-6%	0.1%	4.5	4%	4%	4%
NSA12_R44	Residential (Single dwelling)	0.17	0.185	0.174	-6%	0.1743	-6%	0.1%	4.5	4%	4%	4%
NSA12_R45	Residential (Single dwelling)	0.17	0.185	0.174	-6%	0.1741	-6%	0.1%	4.5	4%	4%	4%
NSA12_R46	Residential (Single dwelling)	0.17	0.185	0.174	-6%	0.1741	-6%	0.0%	4.5	4%	4%	4%
NSA12_R47	Residential (Single dwelling)	0.17	0.184	0.174	-6%	0.1740	-6%	0.0%	4.5	4%	4%	4%
NSA12_R48	Residential (Single dwelling)	0.17	0.184	0.174	-6%	0.1739	-6%	0.0%	4.5	4%	4%	4%
NSA12_R49	Residential (Townhouse)	0.17	0.183	0.174	-5%	0.1736	-5%	0.0%	4.5	4%	4%	4%
NSA12_R50	Residential (Single dwelling)	0.17	0.212	0.181	-14%	0.1814	-14%	0.1%	4.5	5%	4%	4%
NSA12_R51	Residential (Single dwelling)	0.17	0.214	0.182	-15%	0.1821	-15%	0.1%	4.5	5%	4%	4%
NSA12_R52	Residential (Single dwelling)	0.17	0.211	0.181	-14%	0.1813	-14%	0.1%	4.5	5%	4%	4%
NSA12_R53	Residential (Single dwelling)	0.17	0.216	0.182	-16%	0.1823	-16%	0.1%	4.5	5%	4%	4%
NSA12_R54	Residential (Single dwelling)	0.17	0.217	0.183	-16%	0.1828	-16%	0.1%	4.5	5%	4%	4%
NSA12_R55	Residential (Single dwelling)	0.17	0.214	0.182	-15%	0.1821	-15%	0.1%	4.5	5%	4%	4%
NSA12_R56	Residential (Single dwelling)	0.17	0.217	0.183	-16%	0.1829	-16%	0.1%	4.5	5%	4%	4%
NSA12_R57	Residential (Single dwelling)	0.17	0.218	0.183	-16%	0.1832	-16%	0.1%	4.5	5%	4%	4%
NSA12_R58	Residential (Single dwelling)	0.17	0.218	0.183	-16%	0.1833	-16%	0.1%	4.5	5%	4%	4%
NSA12_R59	Residential (Single dwelling)	0.17	0.218	0.183	-16%	0.1833	-16%	0.1%	4.5	5%	4%	4%
NSA12_R60	Residential (Single dwelling)	0.17	0.217	0.183	-16%	0.1829	-16%	0.1%	4.5	5%	4%	4%
NSA12_R61	Residential (Single dwelling)	0.17	0.205	0.180	-12%	0.1797	-12%	0.1%	4.5	5%	4%	4%
NSA12_R62	Residential (Single dwelling)	0.17	0.183	0.173	-5%	0.1735	-5%	0.0%	4.5	4%	4%	4%
NSA12_R63	Residential (Single dwelling)	0.17	0.182	0.173	-5%	0.1734	-5%	0.0%	4.5	4%	4%	4%
NSA12_R64	Residential (Single dwelling)	0.17	0.182	0.173	-5%	0.1733	-5%	0.0%	4.5	4%	4%	4%
NSA12_R65	Residential (Single dwelling)	0.17	0.181	0.173	-4%	0.1731	-4%	0.0%	4.5	4%	4%	4%

Note

<sup>(1)</sup> The 24-hr background concentration for acrolein is used as a surrogate for the 1-hr averaging period since 1-hour concentrations are unavailable.

Table B-16 24-hr Maximum Acrolein Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Name	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1_R01	Residential (Single dwelling)	0.07	0.075	0.072	-5%	0.072	-5%	0%	0.4	19%	18%	18%
NSA1_R02	Residential (Single dwelling)	0.07	0.075	0.072	-5%	0.072	-5%	0%	0.4	19%	18%	18%
NSA1_R03	Residential (Single dwelling)	0.07	0.075	0.071	-5%	0.072	-5%	0%	0.4	19%	18%	18%
NSA1_R04	Residential (Single dwelling)	0.07	0.076	0.072	-5%	0.072	-5%	0%	0.4	19%	18%	18%
NSA1_R05	Residential (Condominium)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R06	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R07	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R08	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R09	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R10	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R11	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R12	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R13	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R14	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R15	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R16	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R17	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R18	Residential (Townhouse)	0.07	0.075	0.071	-5%	0.072	-5%	0%	0.4	19%	18%	18%
NSA1_R19	Residential (Townhouse)	0.07	0.075	0.072	-5%	0.072	-5%	0%	0.4	19%	18%	18%
NSA1_R20	Residential (Single dwelling)	0.07	0.074	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R21	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R22	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R23	Residential (Townhouse)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	18%	18%	18%
NSA1_R24	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R25	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R26	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R27	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA1_R28	Residential (Townhouse)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R29	Residential (Single dwelling)	0.07	0.072	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA1_R30	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R31	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R32	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R33	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R34	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R35	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R36	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R37	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R38	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-2%	0%	0.4	18%	18%	18%
NSA1_R39	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R40	Residential (Single dwelling)	0.07	0.075	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R41	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Name	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (μg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R42	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R43	Residential (Single dwelling)	0.07	0.075	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA1_R44	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA2_R01	Residential (Single dwelling)	0.07	0.075	0.071	-5%	0.071	-4%	0%	0.4	19%	18%	18%
NSA2_R02	Residential (Single dwelling)	0.07	0.075	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA2_R03	Residential (Single dwelling)	0.07	0.075	0.071	-5%	0.072	-4%	0%	0.4	19%	18%	18%
NSA2_R04	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA2_R05	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA2_R06	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA2_R07	Residential (Townhouse)	0.07	0.075	0.071	-5%	0.071	-4%	0%	0.4	19%	18%	18%
NSA2_R08	Residential (Townhouse)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA2_R09	Residential (Townhouse)	0.07	0.075	0.071	-5%	0.071	-4%	0%	0.4	19%	18%	18%
NSA2_R10	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA2_R11	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA2_R12	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA2_R13	Residential (Townhouse)	0.07	0.075	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA2_R14	Residential (Townhouse)	0.07	0.075	0.071	-5%	0.072	-4%	0%	0.4	19%	18%	18%
NSA2_R15	Residential (Single dwelling)	0.07	0.075	0.071	-5% -5%	0.072	-5% -5%	0%	0.4	19% 19%	18%	18% 18%
NSA2_R16	Residential (Single dwelling)	0.07 0.07	0.075 0.075	0.071	-5% -5%	0.072	-5% -5%	0%	0.4	19%	18% 18%	18%
NSA2_R17 NSA2_R18	Residential (Single dwelling)	0.07	0.073	0.071	-4%	0.072	-4%	0%	0.4	19%	18%	18%
NSA2_R19	Residential (Single dwelling) Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA2_R20	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA2_R21	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA2 R22	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA2_R23	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
	Residential (Single dwelling)	0.07	0.073	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA2_R25	Residential (Townhouse)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA2_R26	Residential (Townhouse)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA2_R27	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA2_R28	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA2_R29	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA2_R30	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA2_R31	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA2_R32	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
_	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA2_R34	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
_	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA3_R02	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA3_R03	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
	Residential (Single dwelling)	0.07	0.072	0.071	-1%	0.071	-1%	0%	0.4	18%	18%	18%
NSA3_R05	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA3_R06	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Name	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (μg/m³)	% change from Existing Conditions	24-hr Max Concentration μg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	0.07	0.072	0.071	-1%	0.071	-1%	0%	0.4	18%	18%	18%
NSA4 R02	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA4_R03	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.071	-1%	0%	0.4	18%	18%	18%
NSA4_R04	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA4_R05	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA5_R01	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA5_R02	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA6_R01	Residential (Single dwelling)	0.07	0.073	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA6_R02	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA6_R03	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA6_R04	Residential (Single dwelling)	0.07	0.072	0.071	-1%	0.071	-1%	0%	0.4	18%	18%	18%
NSA6_R05	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA6_R06	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA7_R01	Residential (Single dwelling)	0.07	0.072	0.071	-1%	0.071	-1%	0%	0.4	18%	18%	18%
NSA8_R01	Residential (Single dwelling)	0.07	0.072	0.070	-1%	0.071	-1%	0%	0.4	18%	18%	18%
NSA8_R02	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA8_R03	Residential (Single dwelling)	0.07	0.074	0.071	-4% -2%	0.071	-3% -2%	0% 0%	0.4	18% 18%	18% 18%	18% 18%
NSA8_R04	Residential (Single dwelling)	0.07	0.072 0.072	0.071	-2%	0.071	-2%	0%	0.4		18%	18%
NSA8_R05	Residential (Single dwelling)	0.07 0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18% 18%	18%	18%
NSA8_R06 NSA8_R07	Residential (Single dwelling) Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA8_R08	Residential (Single dwelling)	0.07	0.072	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA8 R09	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA8 R10	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA8_R12	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA8_R13	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA8_R15	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA8_R16	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA8_R17	Residential (Townhouse)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R01	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R02	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R03	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R04	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R05	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R06	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
_	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R08	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R09	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R13	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Name	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R14	Posidontial (Single dwalling)	(µg/m³) 0.07	(μg/m³) 0.071	(μg/m³) 0.070	-1%	μg/m³ 0.070	-1%	0%	0.4	18%	18%	18%
NSA9_R14 NSA9_R15	Residential (Single dwelling)  Residential (Single dwelling)	0.07	0.073	0.070	-3%	0.070	-3%	0%	0.4	18%	18%	18%
NSA10_R01	Residential (Single dwelling)	0.07	0.071	0.070	-1%	0.070	-1%	0%	0.4	18%	18%	18%
NSA10_R02	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R03	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R04	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R05	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R06	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R07	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R08	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R09	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R10	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R11	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R12	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R13	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA10_R14	Residential (Single dwelling)	0.07	0.076	0.072	-5%	0.072	-5%	0%	0.4	19%	18%	18%
NSA10_R15	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA10_R16	Residential (Single dwelling)	0.07	0.080	0.073	-9%	0.073	-9%	0%	0.4	20%	18%	18%
NSA11_R01	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R01	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R02	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R03	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R04	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R05	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R06	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R07	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R08	Residential (Single dwelling)	0.07	0.076	0.071	-5%	0.072	-5%	0%	0.4	19%	18%	18%
NSA12_R09	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	18%	18%	18%
NSA12_R10	Residential (Single dwelling)	0.07	0.075	0.071	-5%	0.071	-5%	0%	0.4	19%	18%	18%
NSA12_R11	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R12	Residential (Single dwelling)	0.07 0.07	0.073	0.071	-3% -3%	0.071	-3%	0%	0.4	18%	18%	18% 18%
NSA12_R13	Residential (Single dwelling)		0.073	0.071		0.071	-3%	0%	0.4	18%	18%	
NSA12_R14	Residential (Single dwelling)	0.07 0.07	0.073 0.073	0.071	-3% -3%	0.071 0.071	-3% -3%	0% 0%	0.4	18% 18%	18% 18%	18% 18%
NSA12_R15	Residential (Single dwelling)	0.07	0.073	0.071	-3% -5%	0.071	-3% -5%	0%	0.4	19%	18%	18%
NSA12_R16 NSA12_R17	Residential (Single dwelling)  Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R17 NSA12_R18	Residential (Single dwelling)  Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R16 NSA12_R19	Residential (Single dwelling) Residential (Townhouse)	0.07	0.073	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA12_R19 NSA12_R20	Residential (Townhouse)	0.07	0.077	0.072	-7%	0.071	-7%	0%	0.4	19%	18%	18%
NSA12_R20 NSA12_R21	Residential (Townhouse)	0.07	0.076	0.072	-6%	0.072	-6%	0%	0.4	19%	18%	18%
NSA12_R21	Residential (Townhouse)	0.07	0.075	0.072	-4%	0.072	-4%	0%	0.4	19%	18%	18%
NSA12_R23	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R24	Residential (Townhouse)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
110/11/2_11/24	Troolacitial (Townhouse)	0.07	0.070	0.07 1	1 3/0	0.07 1	370	J / 0	<b>V.</b> ¬	1570	1570	1070

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Name	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m <sup>3</sup>		004	2.1	400/	100/	100/
NSA12_R25	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	18%	18%	18%
NSA12_R26	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R27	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R28	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R29	Residential (Single dwelling)	0.07	0.074	0.071	-4%	0.071	-4%	0%	0.4	19%	18%	18%
NSA12_R30	Residential (Single dwelling)	0.07	0.075	0.071	-5%	0.071	-5%	0%	0.4	19%	18%	18%
NSA12_R31	Residential (Single dwelling)	0.07	0.077	0.072	-6%	0.072	-6%	0%	0.4	19%	18%	18%
NSA12_R32	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12_R33	Residential (Single dwelling)	0.07	0.073	0.071	-3%	0.071	-3%	0%	0.4	18%	18%	18%
NSA12_R34	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R35	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R36	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R37	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R38	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R39	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R40	Residential (Single dwelling)	0.07	0.072	0.070	-2%	0.070	-2%	0%	0.4	18%	18%	18%
NSA12_R41	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R42	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R43	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R44	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R45	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R46	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R47	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R48	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R49	Residential (Townhouse)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R50	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12 R51	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12 R52	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-6%	0%	0.4	19%	18%	18%
NSA12_R53	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12_R54	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12_R55	Residential (Single dwelling)	0.07	0.077	0.072	-6%	0.072	-6%	0%	0.4	19%	18%	18%
NSA12_R56	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12_R57	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12_R58	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12_R59	Residential (Single dwelling)	0.07	0.077	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12_R60	Residential (Single dwelling)	0.07	0.078	0.072	-7%	0.072	-7%	0%	0.4	19%	18%	18%
NSA12_R61	Residential (Single dwelling)	0.07	0.076	0.072	-6%	0.072	-6%	0%	0.4	19%	18%	18%
NSA12_R62	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R63	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R03 NSA12_R64	Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NSA12_R04 NSA12_R65	Residential (Single dwelling)  Residential (Single dwelling)	0.07	0.072	0.071	-2%	0.071	-2%	0%	0.4	18%	18%	18%
NOA 12_R00	rvesideriliai (Sirigle dwelling)	0.07	0.012	0.07 1	- <u>/</u> /0	0.07 1	-Z /0	U /0	0.4	10 /0	10 /0	10 /0

Table B-17 24-hr Maximum Benzene Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R01	Residential (Single dwelling)	0.82	0.89	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA1 R02	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA1 R03	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA1 R04	Residential (Single dwelling)	0.82	0.89	0.84	-6%	0.84	-6%	0%	2.3	39%	36%	36%
 NSA1_R05	Residential (Condominium)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA1 R06	Residential (Townhouse)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1 R07	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1 R08	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R09	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R10	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1 R11	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R12	Residential (Townhouse)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R13	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R14	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA1_R15	Residential (Townhouse)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R16	Residential (Townhouse)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R17	Residential (Townhouse)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA1_R18	Residential (Townhouse)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA1_R19	Residential (Townhouse)	0.82	0.89	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA1_R20	Residential (Single dwelling)	0.82	0.86	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA1_R21	Residential (Single dwelling)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA1_R22	Residential (Single dwelling)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA1_R23	Residential (Townhouse)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA1_R24	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R25	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R26	Residential (Townhouse)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA1_R27	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R28	Residential (Townhouse)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA1_R29	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	36%	36%	36%
NSA1_R30	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA1_R31	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA1_R32	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA1_R33	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA1_R34	Residential (Single dwelling)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA1_R35	Residential (Single dwelling)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA1_R36	Residential (Single dwelling)	0.82	0.87	0.83	-5%	0.83	-5%	0%	2.3	38%	36%	36%
NSA1_R37	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA1_R38	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA1_R39	Residential (Single dwelling)	0.82	0.87	0.83	-5%	0.83	-5%	0%	2.3	38%	36%	36%
NSA1_R40	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA1_R41	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NCA4 D40	Desidential (Circula desalling)	(µg/m³) 0.82	(µg/m³) 0.87	(μg/m³) 0.83	-4%	μg/m <sup>3</sup> 0.83	-4%	0%	2.3	38%	36%	36%
NSA1_R42 NSA1_R43	Residential (Single dwelling) Residential (Single dwelling)	0.82	0.88	0.83	-4 % -5%	0.84	-4%	0%	2.3	38%	36%	36%
NSA1_R44	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA2_R01	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2 R02	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2_R03	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
 NSA2_R04	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA2_R05	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA2_R06	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA2_R07	Residential (Townhouse)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2_R08	Residential (Townhouse)	0.82	0.87	0.83	-5%	0.83	-5%	0%	2.3	38%	36%	36%
NSA2_R09	Residential (Townhouse)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2_R10	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA2_R11	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA2_R12	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA2_R13	Residential (Townhouse)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2_R14	Residential (Townhouse)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2_R15	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2_R16	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2_R17	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA2_R18	Residential (Single dwelling)	0.82	0.87	0.83	-5%	0.83	-5%	0%	2.3	38%	36%	36%
NSA2_R19	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA2_R20	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA2_R21	Residential (Townhouse)	0.82	0.86	0.83	-4%	0.83	-4%	0%	2.3	37%	36%	36%
NSA2_R22	Residential (Single dwelling)	0.82	0.85	0.83	-3% -3%	0.83	-3% -3%	0% 0%	2.3	37% 37%	36%	36% 36%
NSA2_R23	Residential (Single dwelling)	0.82 0.82	0.85 0.85	0.83	-3%	0.83 0.83	-3%	0%	2.3	37%	36% 36%	36%
NSA2_R24 NSA2_R25	Residential (Single dwelling) Residential (Townhouse)	0.82	0.83	0.82	-3%	0.82	-1%	0%	2.3	36%	36%	36%
NSA2_R25 NSA2_R26	Residential (Townhouse)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA2_R27	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA2_R27 NSA2_R28	Residential (Single dwelling)  Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA2_R29	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA2_R30	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA2_R31	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA2_R32	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA2_R33	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
 NSA2_R34	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA3_R01	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA3_R02	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA3_R03	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA3_R04	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	36%	36%	36%
NSA3_R05	Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
NSA3_R06	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
NSA4_R02	Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
NSA4_R03	Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
NSA4_R04	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA4_R05	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA5_R01	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA5_R02	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA6_R01	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA6_R02	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA6_R03	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA6_R04	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	36%	36%	36%
NSA6_R05	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA6_R06	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA7_R01	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA8_R01	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	36%	36%	36%
NSA8_R02	Residential (Single dwelling)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA8_R03	Residential (Single dwelling)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA8_R04	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA8_R05	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA8_R06	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA8_R07	Residential (Single dwelling)	0.82	0.84	0.83	-2% -1%	0.83	-2% -1%	0%	2.3	37% 36%	36% 36%	36% 36%
NSA8_R08	Residential (Single dwelling)	0.82 0.82	0.84 0.84	0.83 0.82	-1%	0.83 0.82	-1%	0% 0%	2.3	36%	36%	36%
NSA8_R09 NSA8_R10	Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
NSA8_R10	Residential (Single dwelling) Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
NSA8 R12	Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
NSA8 R13	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA8 R14	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA8 R15	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA8 R16	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
 NSA8_R17	Residential (Townhouse)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R01	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R02	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R03	Residential (Single dwelling)	0.82	0.84	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R04	Residential (Single dwelling)	0.82	0.84	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R05	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R06	Residential (Single dwelling)	0.82	0.84	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R07	Residential (Single dwelling)	0.82	0.83	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R08	Residential (Single dwelling)	0.82	0.84	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R09	Residential (Single dwelling)	0.82	0.84	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R10	Residential (Single dwelling)	0.82	0.84	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R11	Residential (Single dwelling)	0.82	0.84	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%
NSA9_R13	Residential (Single dwelling)	0.82	0.84	0.82	-1%	0.82	-1%	0%	2.3	36%	36%	36%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (μg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R14	Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
 NSA9_R15	Residential (Single dwelling)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA10_R01	Residential (Single dwelling)	0.82	0.84	0.83	-1%	0.83	-1%	0%	2.3	36%	36%	36%
NSA10_R02	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R03	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	36%	36%	36%
NSA10_R04	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R05	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R06	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R07	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R08	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R09	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R10	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R11	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R12	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R13	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA10_R14	Residential (Single dwelling)	0.82	0.89	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA10_R15	Residential (Single dwelling)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA10_R16	Residential (Single dwelling)	0.82	0.94	0.85	-9%	0.85	-9%	0%	2.3	41%	37%	37%
NSA11_R01	Residential (Single dwelling)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R01	Residential (Single dwelling)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R02	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R03	Residential (Single dwelling)	0.82 0.82	0.86 0.85	0.83	-3% -2%	0.83 0.83	-3% -2%	0% 0%	2.3	37% 37%	36% 36%	36% 36%
NSA12_R04	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R05 NSA12_R06	Residential (Single dwelling) Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R00	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R07 NSA12_R08	Residential (Single dwelling)	0.82	0.89	0.84	-6%	0.84	-6%	0%	2.3	39%	36%	36%
NSA12_R09	Residential (Single dwelling)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA12 R10	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA12_R11	Residential (Single dwelling)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12 R12	Residential (Single dwelling)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
	Residential (Single dwelling)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R14	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R15	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
	Residential (Single dwelling)	0.82	0.88	0.83	-5%	0.83	-5%	0%	2.3	38%	36%	36%
NSA12_R17	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R18	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R19	Residential (Townhouse)	0.82	0.87	0.83	-5%	0.83	-5%	0%	2.3	38%	36%	36%
NSA12_R20	Residential (Townhouse)	0.82	0.91	0.84	-8%	0.84	-8%	0%	2.3	40%	37%	37%
NSA12_R21	Residential (Townhouse)	0.82	0.90	0.84	-7%	0.84	-7%	0%	2.3	39%	36%	36%
NSA12_R22	Residential (Townhouse)	0.82	0.88	0.83	-5%	0.83	-5%	0%	2.3	38%	36%	36%
NSA12_R23	Residential (Townhouse)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R24	Residential (Townhouse)	0.82	0.86	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA40 DOE	Desired and the Local Control of the	(µg/m³)	(µg/m³)	(µg/m³)		μg/m³	40/	00/	2.2	200/	260/	260/
NSA12_R25	Residential (Single dwelling)	0.82	0.87	0.83	-4% -4%	0.83	-4% -4%	0%	2.3	38%	36% 36%	36%
NSA12_R26	Residential (Single dwelling)	0.82	0.86	0.83	-4% -4%	0.83		0%	2.3	38% 37%		36% 36%
NSA12_R27	Residential (Single dwelling)	0.82	0.86 0.86	0.83	-4% -4%	0.83 0.83	-4% -4%	0%	2.3	37%	36% 36%	36%
NSA12_R28	Residential (Single dwelling)	0.82		0.83				0%	2.3			
NSA12_R29	Residential (Single dwelling)	0.82	0.87	0.83	-4%	0.83	-4%	0%	2.3	38%	36%	36%
NSA12_R30	Residential (Single dwelling)	0.82	0.88	0.84	-5%	0.84	-5%	0%	2.3	38%	36%	36%
NSA12_R31	Residential (Single dwelling)	0.82	0.90	0.84	-7%	0.84	-7%	0%	2.3	39%	37%	37%
NSA12_R32	Residential (Single dwelling)	0.82	0.91	0.84	-7%	0.84	-7%	0%	2.3	40%	37%	37%
NSA12_R33	Residential (Single dwelling)	0.82	0.85	0.83	-3%	0.83	-3%	0%	2.3	37%	36%	36%
NSA12_R34	Residential (Townhouse)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R35	Residential (Townhouse)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R36	Residential (Townhouse)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R37	Residential (Townhouse)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R38	Residential (Townhouse)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R39	Residential (Townhouse)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R40	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R41	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R42	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R43	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R44	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R45	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R46	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R47	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R48	Residential (Single dwelling)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R49	Residential (Townhouse)	0.82	0.84	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R50	Residential (Single dwelling)	0.82	0.91	0.84	-7%	0.84	-7%	0%	2.3	40%	37%	37%
NSA12_R51	Residential (Single dwelling)	0.82	0.91	0.84	-8%	0.84	-8%	0%	2.3	40%	37%	37%
NSA12 R52	Residential (Single dwelling)	0.82	0.90	0.84	-7%	0.84	-7%	0%	2.3	39%	37%	37%
NSA12 R53	Residential (Single dwelling)	0.82	0.91	0.84	-7%	0.84	-7%	0%	2.3	40%	37%	37%
NSA12_R54	Residential (Single dwelling)	0.82	0.91	0.84	-7%	0.84	-7%	0%	2.3	40%	37%	37%
NSA12_R55	Residential (Single dwelling)	0.82	0.90	0.84	-7%	0.84	-7%	0%	2.3	39%	37%	37%
NSA12_R56	Residential (Single dwelling)	0.82	0.91	0.84	-7%	0.84	-7%	0%	2.3	40%	37%	37%
	Residential (Single dwelling)	0.82	0.91	0.84	-7%	0.84	-7%	0%	2.3	40%	37%	37%
	Residential (Single dwelling)	0.82	0.91	0.84	-7%	0.84	-7%	0%	2.3	40%	37%	37%
NSA12_R59	Residential (Single dwelling)	0.82	0.91	0.84	-7%	0.84	-7%	0%	2.3	40%	37%	37%
NSA12_R60	Residential (Single dwelling)	0.82	0.91	0.84	-8%	0.84	-8%	0%	2.3	40%	37%	37%
NSA12_R61	Residential (Single dwelling)	0.82	0.90	0.84	-6%	0.84	-6%	0%	2.3	39%	36%	36%
NSA12 R62	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R63	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R64	Residential (Single dwelling)	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
_	, , , , , , , , , , , , , , , , , , , ,	0.82	0.85	0.83	-2%	0.83	-2%	0%	2.3	37%	36%	36%
NSA12_R65	Residential (Single dwelling)	0.02	0.00	0.03	<b>-</b> 2 70	0.03	<b>-∠</b> 70	U 70	۷.۵	31 70	30 70	3070

Table B-18 Annual Average Benzene Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	<b>Existing Conditions</b>		Build (2041)		Future Build (2041)				% of the AAQC	
	******		(2018) Annual Average	Annual Average	<u> </u>	Annual Max	<u> </u>		AAQC (µg/m³)			<u> </u>
ID	Type	Concentration	Concentration	Concentration	% change from Existing Conditions	Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/III )	Existing	Future No-Build	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Existing Conditions	μg/m <sup>3</sup>	Existing Conditions	Dullu		Conditions (2018)	(2041)	
NSA1_R01	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R02	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R03	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R04	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R05	Residential (Condominium)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R06	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R07	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R08	Residential (Townhouse)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	120%	118%	118%
NSA1_R09	Residential (Townhouse)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	120%	118%	118%
NSA1_R10	Residential (Townhouse)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	120%	118%	118%
NSA1_R11	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R12	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R13	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R14	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R15	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R16	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R17	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R18	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R19	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R20	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R21	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R22	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R23	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R24	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R25	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R26	Residential (Townhouse)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R27	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R28	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R29	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R30	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA1_R31	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R32	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R33	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R34	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R35	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R36	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R37	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R38	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R39	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA1_R40	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
 NSA1_R41	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R42	Residential (Single dwelling)	(µg/m³) 0.53	(μg/m³) 0.54	(μg/m³) 0.53	-1%	μg/m³ 0.53	-1%	0%	0.45	120%	118%	118%
	Residential (Single dwelling)  Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
_	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
<del></del>	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R02	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
_	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R05	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R06	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
_	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
<del>                                     </del>	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R10	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R11	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R12	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R13	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R14	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R15	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R16	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R17	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R18	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA2_R19	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R20	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R21	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R22	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA2_R23	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA2_R24	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
_	Residential (Townhouse)	0.53	0.53	0.53	0%	0.53	0%	0%	0.45	118%	118%	118%
	Residential (Townhouse)	0.53	0.53	0.53	0%	0.53	0%	0%	0.45	118%	118%	118%
_	Residential (Single dwelling)	0.53	0.53	0.53	0%	0.53	0%	0%	0.45	118%	118%	118%
	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
	Residential (Single dwelling)	0.53	0.54	0.53	-1% 1%	0.53	-1% 1%	0%	0.45	119%	118%	118% 118%
	Residential (Single dwelling)	0.53	0.53	0.53	-1% -1%	0.53	-1% -1%	0%	0.45	119%	118% 118%	118%
	Residential (Single dwelling)	0.53	0.53	0.53		0.53	-1%	0%	0.45	119%		118%
_	Residential (Single dwelling)	0.53 0.53	0.53 0.53	0.53	0% 0%	0.53 0.53	0%	0% 0%	0.45 0.45	118% 118%	118% 118%	118%
<del>                                     </del>	Residential (Single dwelling) Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
_	Residential (Single dwelling)  Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
_	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
	Residential (Single dwelling)	0.53	0.53	0.53	0%	0.53	0%	0%	0.45	118%	118%	118%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-l	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	Annual Average Concentration (µg/m³)	Annual Average Concentration (µg/m³)	% change from Existing Conditions	Annual Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA4_R02	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA4 R03	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA4 R04	Residential (Single dwelling)	0.53	0.53	0.53	0%	0.53	0%	0%	0.45	118%	118%	118%
NSA4 R05	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA5_R01	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA5_R02	Residential (Single dwelling)	0.53	0.53	0.53	0%	0.53	0%	0%	0.45	118%	118%	118%
NSA6 R01	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA6 R02	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA6_R03	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA6_R04	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA6_R05	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA6_R06	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA7_R01	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R01	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R02	Residential (Single dwelling)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	120%	118%	118%
NSA8_R03	Residential (Single dwelling)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	121%	119%	119%
NSA8_R04	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA8_R05	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R06	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R07	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R08	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R09	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R10	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R11	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R12	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R13	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R14	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R15	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R16	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA8_R17	Residential (Townhouse)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R01	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R02	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R03	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R04	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R05	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R06	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R07	Residential (Single dwelling)	0.53	0.53	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R08	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R09	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R10	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R11	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R13	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R14	Residential (Single dwelling)	(µg/m³) 0.53	(μg/m³) 0.54	(μg/m³) 0.53	-1%	μg/m³ 0.53	-1%	0%	0.45	119%	118%	118%
NSA9_R14 NSA9_R15	Residential (Single dwelling)  Residential (Single dwelling)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	120%	118%	118%
NSA9_K13	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10_R01	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10_R03	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10 R04	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10_R06	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10 R07	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10 R08	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10 R09	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10_R10	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10_R11	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10_R12	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10_R13	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA10_R14	Residential (Single dwelling)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	121%	119%	119%
NSA10_R15	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA10_R16	Residential (Single dwelling)	0.53	0.56	0.54	-4%	0.54	-4%	0%	0.45	124%	120%	120%
NSA11_R01	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA12_R01	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA12_R02	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA12_R03	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA12_R04	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R05	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R06	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R07	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R08	Residential (Single dwelling)	0.53	0.55	0.53	-3%	0.53	-3%	0%	0.45	122%	119%	119%
NSA12_R09	Residential (Single dwelling)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	121%	118%	118%
NSA12_R10	Residential (Single dwelling)	0.53	0.55	0.53	-2%	0.53	-2%	0%	0.45	122%	119%	119%
	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
_	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
_	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
_	Residential (Single dwelling)	0.53	0.55	0.53	-2%	0.53	-2%	0%	0.45	121%	119%	119%
NSA12_R17	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
_	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
	Residential (Townhouse)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	121%	118%	118%
	Residential (Townhouse)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
_	Residential (Townhouse)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	122%	119%	119%
NSA12_R22	Residential (Townhouse)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	121%	118%	118%
	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R24	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Existing Conditions	μg/m <sup>3</sup>	Existing Conditions	Balla		Containons (2010)	(2041)	
NSA12_R25	Residential (Single dwelling)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	120%	118%	118%
NSA12_R26	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA12_R27	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA12_R28	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA12_R29	Residential (Single dwelling)	0.53	0.54	0.53	-2%	0.53	-2%	0%	0.45	120%	118%	118%
NSA12_R30	Residential (Single dwelling)	0.53	0.55	0.53	-2%	0.53	-2%	0%	0.45	121%	119%	119%
NSA12_R31	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	122%	119%	119%
NSA12_R32	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R33	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	120%	118%	118%
NSA12_R34	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R35	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R36	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R37	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R38	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R39	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R40	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R41	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R42	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R43	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R44	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R45	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R46	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R47	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R48	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R49	Residential (Townhouse)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R50	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R51	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R52	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R53	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R54	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R55	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R56	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R57	Residential (Single dwelling)	0.53	0.56	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R58	Residential (Single dwelling)	0.53	0.56	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R59	Residential (Single dwelling)	0.53	0.56	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R60	Residential (Single dwelling)	0.53	0.56	0.54	-3%	0.54	-3%	0%	0.45	123%	119%	119%
NSA12_R61	Residential (Single dwelling)	0.53	0.55	0.54	-3%	0.54	-3%	0%	0.45	122%	119%	119%
NSA12_R62	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R63	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R64	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%
NSA12_R65	Residential (Single dwelling)	0.53	0.54	0.53	-1%	0.53	-1%	0%	0.45	119%	118%	118%

Table B-19 24-hr Maximum 1,3 Butadiene Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)				Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (μg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1_R01	Residential (Single dwelling)	0.08	0.090	0.082	-9%	0.083	-8%	1.2%	10	1%	1%	1%
NSA1 R02	Residential (Single dwelling)	0.08	0.090	0.082	-9%	0.083	-8%	1.2%	10	1%	1%	1%
NSA1_R03	Residential (Single dwelling)	0.08	0.090	0.082	-9%	0.083	-7%	1.1%	10	1%	1%	1%
NSA1 R04	Residential (Single dwelling)	0.08	0.091	0.082	-10%	0.083	-8%	1.3%	10	1%	1%	1%
NSA1 R05	Residential (Condominium)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R06	Residential (Townhouse)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA1_R07	Residential (Townhouse)	0.08	0.086	0.082	-5%	0.083	-4%	0.7%	10	1%	1%	1%
NSA1_R08	Residential (Townhouse)	0.08	0.087	0.082	-6%	0.083	-5%	0.7%	10	1%	1%	1%
NSA1 R09	Residential (Townhouse)	0.08	0.087	0.082	-6%	0.083	-5%	0.7%	10	1%	1%	1%
NSA1_R10	Residential (Townhouse)	0.08	0.087	0.082	-6%	0.083	-5%	0.8%	10	1%	1%	1%
NSA1_R11	Residential (Townhouse)	0.08	0.087	0.082	-5%	0.083	-5%	0.7%	10	1%	1%	1%
NSA1_R12	Residential (Townhouse)	0.08	0.086	0.082	-4%	0.083	-4%	0.6%	10	1%	1%	1%
NSA1_R13	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA1_R14	Residential (Single dwelling)	0.08	0.086	0.082	-4%	0.083	-4%	0.5%	10	1%	1%	1%
NSA1_R15	Residential (Townhouse)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA1_R16	Residential (Townhouse)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA1_R17	Residential (Townhouse)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA1_R18	Residential (Townhouse)	0.08	0.090	0.082	-9%	0.083	-8%	1.2%	10	1%	1%	1%
NSA1_R19	Residential (Townhouse)	0.08	0.090	0.082	-9%	0.083	-8%	1.2%	10	1%	1%	1%
NSA1_R20	Residential (Single dwelling)	0.08	0.088	0.082	-6%	0.083	-5%	0.8%	10	1%	1%	1%
NSA1_R21	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R22	Residential (Single dwelling)	0.08	0.088	0.082	-6%	0.083	-6%	0.9%	10	1%	1%	1%
NSA1_R23	Residential (Townhouse)	0.08	0.088	0.082	-7%	0.083	-6%	0.9%	10	1%	1%	1%
NSA1_R24	Residential (Townhouse)	0.08	0.087	0.082	-6%	0.083	-5%	0.8%	10	1%	1%	1%
NSA1_R25	Residential (Townhouse)	0.08	0.087	0.082	-5%	0.083	-5%	0.7%	10	1%	1%	1%
NSA1_R26	Residential (Townhouse)	0.08	0.086	0.082	-4%	0.083	-4%	0.6%	10	1%	1%	1%
NSA1_R27	Residential (Townhouse)	0.08	0.087	0.082	-6%	0.083	-5%	0.7%	10	1%	1%	1%
NSA1_R28	Residential (Townhouse)	0.08	0.089	0.082	-7%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R29	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.3%	10	1%	1%	1%
NSA1_R30	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.4%	10	1%	1%	1%
NSA1_R31	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA1_R32	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA1_R33	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA1_R34	Residential (Single dwelling)	0.08	0.089	0.082	-7%	0.083	-6%	1.0%	10	1%	1%	1%
NSA1_R35	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R36	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R37	Residential (Single dwelling)	0.08	0.086	0.082	-4%	0.083	-4%	0.5%	10	1%	1%	1%
NSA1_R38	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA1_R39	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R40	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R41	Residential (Single dwelling)	0.08	0.086	0.082	-4%	0.082	-4%	0.5%	10	1%	1%	1%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA1 R42	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R43	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA1_R44	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA2_R01	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.1%	10	1%	1%	1%
NSA2_R02	Residential (Single dwelling)	0.08	0.089	0.082	-8%	0.083	-7%	1.1%	10	1%	1%	1%
NSA2_R03	Residential (Single dwelling)	0.08	0.090	0.082	-8%	0.083	-7%	1.1%	10	1%	1%	1%
NSA2_R04	Residential (Single dwelling)	0.08	0.086	0.082	-4%	0.082	-4%	0.5%	10	1%	1%	1%
NSA2_R05	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA2_R06	Residential (Single dwelling)	0.08	0.086	0.082	-4%	0.082	-4%	0.5%	10	1%	1%	1%
NSA2_R07	Residential (Townhouse)	0.08	0.090	0.082	-8%	0.083	-7%	1.1%	10	1%	1%	1%
NSA2_R08	Residential (Townhouse)	0.08	0.089	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA2_R09	Residential (Townhouse)	0.08	0.090	0.082	-8%	0.083	-7%	1.1%	10	1%	1%	1%
NSA2_R10	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA2_R11	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA2_R12	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA2_R13	Residential (Townhouse)	0.08	0.089	0.082	-8%	0.083	-7%	1.1%	10	1%	1%	1%
NSA2_R14	Residential (Townhouse)	0.08	0.090	0.082	-8%	0.083	-7%	1.1%	10	1%	1%	1%
NSA2_R15	Residential (Single dwelling)	0.08	0.090	0.082	-9%	0.083	-8%	1.1%	10	1%	1%	1%
NSA2_R16	Residential (Single dwelling)	0.08	0.090	0.082	-9% -9%	0.083	-8% -8%	1.2%	10	1% 1%	1%	1% 1%
NSA2_R17	Residential (Single dwelling)	0.08	0.090 0.089	0.082	-9% -8%	0.083	-8% -7%	1.1% 1.0%	10 10	1%	1% 1%	1%
NSA2_R18	Residential (Single dwelling)	0.08	0.089	0.082	-4%	0.083	-4%	0.5%	10	1%	1%	1%
NSA2_R19 NSA2_R20	Residential (Single dwelling)  Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA2_R21	Residential (Townhouse)	0.08	0.087	0.082	-6%	0.083	-5%	0.6%	10	1%	1%	1%
NSA2_R22	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.082	-4%	0.5%	10	1%	1%	1%
NSA2_R23	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.082	-4%	0.5%	10	1%	1%	1%
-	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA2 R25	Residential (Townhouse)	0.08	0.084	0.082	-2%	0.082	-2%	0.2%	10	1%	1%	1%
NSA2_R26	Residential (Townhouse)	0.08	0.083	0.082	-1%	0.082	-1%	0.2%	10	1%	1%	1%
NSA2_R27	Residential (Single dwelling)	0.08	0.083	0.082	-2%	0.082	-1%	0.3%	10	1%	1%	1%
NSA2_R28	Residential (Single dwelling)	0.08	0.083	0.082	-2%	0.082	-1%	0.3%	10	1%	1%	1%
NSA2_R29	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA2_R30	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA2_R31	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA2_R32	Residential (Single dwelling)	0.08	0.083	0.082	-2%	0.082	-1%	0.2%	10	1%	1%	1%
NSA2_R33	Residential (Single dwelling)	0.08	0.083	0.082	-2%	0.082	-1%	0.2%	10	1%	1%	1%
NSA2_R34	Residential (Single dwelling)	0.08	0.083	0.082	-2%	0.082	-1%	0.2%	10	1%	1%	1%
NSA3_R01	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA3_R02	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA3_R03	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA3_R04	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.4%	10	1%	1%	1%
NSA3_R05	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.4%	10	1%	1%	1%
NSA3_R06	Residential (Single dwelling)	0.08	0.083	0.082	-2%	0.082	-1%	0.2%	10	1%	1%	1%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.4%	10	1%	1%	1%
NSA4_R02	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA4_R03	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.4%	10	1%	1%	1%
NSA4 R04	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA4_R05	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.4%	10	1%	1%	1%
NSA5_R01	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.5%	10	1%	1%	1%
NSA5_R02	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA6 R01	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.7%	10	1%	1%	1%
NSA6_R02	Residential (Single dwelling)	0.08	0.086	0.082	-4%	0.083	-4%	0.7%	10	1%	1%	1%
NSA6 R03	Residential (Single dwelling)	0.08	0.086	0.082	-4%	0.083	-3%	0.8%	10	1%	1%	1%
 NSA6_R04	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.5%	10	1%	1%	1%
NSA6_R05	Residential (Single dwelling)	0.08	0.086	0.082	-4%	0.083	-4%	0.6%	10	1%	1%	1%
NSA6 R06	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.6%	10	1%	1%	1%
NSA7 R01	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.4%	10	1%	1%	1%
NSA8_R01	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.4%	10	1%	1%	1%
NSA8_R02	Residential (Single dwelling)	0.08	0.087	0.082	-5%	0.083	-5%	0.7%	10	1%	1%	1%
NSA8_R03	Residential (Single dwelling)	0.08	0.088	0.082	-7%	0.083	-6%	1.0%	10	1%	1%	1%
NSA8 R04	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA8_R05	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.5%	10	1%	1%	1%
NSA8_R06	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA8_R07	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.4%	10	1%	1%	1%
NSA8_R08	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.3%	10	1%	1%	1%
NSA8_R09	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA8_R10	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.4%	10	1%	1%	1%
NSA8_R11	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA8_R12	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA8_R13	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA8_R14	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA8_R15	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA8_R16	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA8_R17	Residential (Townhouse)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R01	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R02	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R03	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R04	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R05	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.2%	10	1%	1%	1%
NSA9_R06	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R07	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.2%	10	1%	1%	1%
NSA9_R08	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R09	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R10	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R11	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9_R13	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (μg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9 R14	Residential (Single dwelling)	0.08	0.084	0.082	-2%	0.082	-2%	0.3%	10	1%	1%	1%
NSA9 R15	Residential (Single dwelling)	0.08	0.087	0.082	-5%	0.083	-5%	0.6%	10	1%	1%	1%
NSA10_R01	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.3%	10	1%	1%	1%
NSA10_R02	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R03	Residential (Single dwelling)	0.08	0.084	0.082	-3%	0.082	-2%	0.4%	10	1%	1%	1%
NSA10_R04	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.4%	10	1%	1%	1%
NSA10_R05	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R06	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R07	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R08	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R09	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R10	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R11	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R12	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R13	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%
NSA10_R14	Residential (Single dwelling)	0.08	0.091	0.082	-9%	0.083	-8%	1.2%	10	1%	1%	1%
NSA10_R15	Residential (Single dwelling)	0.08	0.089	0.082	-7%	0.083	-6%	0.9%	10	1%	1%	1%
NSA10_R16	Residential (Single dwelling)	0.08	0.097	0.082	-15%	0.084	-14%	2.2%	10	1%	1%	1%
NSA11_R01	Residential (Single dwelling)	0.08	0.087	0.082	-5%	0.083	-5%	0.7%	10	1%	1%	1%
NSA12_R01	Residential (Single dwelling)	0.08	0.087	0.082	-5%	0.082	-5%	0.5%	10	1%	1%	1%
NSA12_R02	Residential (Single dwelling)	0.08	0.086	0.082	-5% -5%	0.082	-5% -5%	0.5%	10	1% 1%	1%	1% 1%
NSA12_R03	Residential (Single dwelling)	0.08	0.087 0.085	0.082	-4%	0.082 0.082	-4%	0.5% 0.4%	10	1%	1% 1%	1%
NSA12_R04 NSA12_R05	Residential (Single dwelling)	0.08	0.085	0.082	-4 <i>%</i>	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R05 NSA12_R06	Residential (Single dwelling)  Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R07	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12 R08	Residential (Single dwelling)	0.08	0.091	0.082	-10%	0.083	-9%	1.1%	10	1%	1%	1%
NSA12 R09	Residential (Single dwelling)	0.08	0.088	0.082	-7%	0.083	-6%	0.8%	10	1%	1%	1%
NSA12 R10	Residential (Single dwelling)	0.08	0.090	0.082	-9%	0.083	-8%	1.1%	10	1%	1%	1%
NSA12_R11	Residential (Single dwelling)	0.08	0.087	0.082	-5%	0.083	-5%	0.5%	10	1%	1%	1%
NSA12_R12	Residential (Single dwelling)	0.08	0.087	0.082	-5%	0.083	-5%	0.5%	10	1%	1%	1%
NSA12_R13	Residential (Single dwelling)	0.08	0.087	0.082	-5%	0.082	-5%	0.5%	10	1%	1%	1%
NSA12_R14	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.082	-4%	0.5%	10	1%	1%	1%
NSA12_R15	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.082	-4%	0.5%	10	1%	1%	1%
NSA12_R16	Residential (Single dwelling)	0.08	0.090	0.082	-8%	0.083	-7%	1.0%	10	1%	1%	1%
NSA12_R17	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.082	-4%	0.5%	10	1%	1%	1%
NSA12_R18	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.082	-4%	0.5%	10	1%	1%	1%
NSA12_R19	Residential (Townhouse)	0.08	0.089	0.082	-8%	0.083	-7%	0.8%	10	1%	1%	1%
NSA12_R20	Residential (Townhouse)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
NSA12_R21	Residential (Townhouse)	0.08	0.092	0.082	-11%	0.083	-10%	1.3%	10	1%	1%	1%
NSA12_R22	Residential (Townhouse)	0.08	0.089	0.082	-8%	0.083	-7%	0.9%	10	1%	1%	1%
NSA12_R23	Residential (Townhouse)	0.08	0.086	0.082	-5%	0.082	-4%	0.5%	10	1%	1%	1%
NSA12_R24	Residential (Townhouse)	0.08	0.087	0.082	-6%	0.083	-5%	0.6%	10	1%	1%	1%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-E	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Conditions	μg/m³	Existing Conditions	Dulla		Conditions (2010)	(2041)	
NSA12_R25	Residential (Single dwelling)	0.08	0.088	0.082	-7%	0.083	-6%	0.8%	10	1%	1%	1%
NSA12_R26	Residential (Single dwelling)	0.08	0.088	0.082	-6%	0.083	-6%	0.7%	10	1%	1%	1%
NSA12_R27	Residential (Single dwelling)	0.08	0.087	0.082	-6%	0.083	-5%	0.7%	10	1%	1%	1%
NSA12_R28	Residential (Single dwelling)	0.08	0.087	0.082	-6%	0.083	-6%	0.7%	10	1%	1%	1%
NSA12_R29	Residential (Single dwelling)	0.08	0.088	0.082	-7%	0.083	-6%	0.8%	10	1%	1%	1%
NSA12_R30	Residential (Single dwelling)	0.08	0.090	0.082	-9%	0.083	-8%	1.0%	10	1%	1%	1%
NSA12_R31	Residential (Single dwelling)	0.08	0.093	0.082	-11%	0.083	-10%	1.4%	10	1%	1%	1%
NSA12_R32	Residential (Single dwelling)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
NSA12_R33	Residential (Single dwelling)	0.08	0.086	0.082	-5%	0.083	-4%	0.5%	10	1%	1%	1%
NSA12_R34	Residential (Townhouse)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R35	Residential (Townhouse)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R36	Residential (Townhouse)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R37	Residential (Townhouse)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R38	Residential (Townhouse)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R39	Residential (Townhouse)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R40	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.4%	10	1%	1%	1%
 NSA12_R41	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
 NSA12_R42	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R43	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12 R44	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R45	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R46	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R47	Residential (Single dwelling)	0.08	0.085	0.082	-3%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R48	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R49	Residential (Townhouse)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R50	Residential (Single dwelling)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
NSA12 R51	Residential (Single dwelling)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
NSA12_R52	Residential (Single dwelling)	0.08	0.093	0.082	-12%	0.083	-10%	1.4%	10	1%	1%	1%
NSA12_R53	Residential (Single dwelling)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
NSA12_R54	Residential (Single dwelling)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
NSA12_R55	Residential (Single dwelling)	0.08	0.093	0.082	-11%	0.083	-10%	1.4%	10	1%	1%	1%
NSA12_R56	Residential (Single dwelling)	0.08	0.093	0.082	-12%	0.083	-11%	1.4%	10	1%	1%	1%
NSA12_R57	Residential (Single dwelling)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
 NSA12_R58	Residential (Single dwelling)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
NSA12_R59	Residential (Single dwelling)	0.08	0.094	0.082	-12%	0.083	-11%	1.5%	10	1%	1%	1%
 NSA12_R60	Residential (Single dwelling)	0.08	0.094	0.082	-13%	0.083	-11%	1.5%	10	1%	1%	1%
 NSA12_R61	Residential (Single dwelling)	0.08	0.092	0.082	-10%	0.083	-9%	1.2%	10	1%	1%	1%
 NSA12_R62	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R63	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
 NSA12_R64	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.4%	10	1%	1%	1%
NSA12_R65	Residential (Single dwelling)	0.08	0.085	0.082	-4%	0.082	-3%	0.5%	10	1%	1%	1%

Table B-20 Annual Average 1,3 Butadiene Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA4 Bod	Desidential (Obselve desall)	(μg/m³)	(µg/m³)	(µg/m³)	20/	μg/m <sup>3</sup>	00/	0.20/	2	20/	20/	20/
NSA1_R01	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2% 2%
NSA1_R02	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	
NSA1_R03	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R04	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA1_R05	Residential (Condominium)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R06	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R07	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA1_R08	Residential (Townhouse)	0.05	0.050	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA1_R09	Residential (Townhouse)	0.05	0.050	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA1_R10	Residential (Townhouse)	0.05	0.050	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA1_R11	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA1_R12	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R13	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R14	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R15	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-2%	0.4%	2	2%	2%	2%
NSA1_R16	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R17	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA1_R18	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R19	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R20	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA1_R21	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R22	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA1_R23	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA1_R24	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA1_R25	Residential (Townhouse)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA1_R26	Residential (Townhouse)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA1_R27	Residential (Townhouse)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA1_R28	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R29	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA1_R30	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA1_R31	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R32	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA1_R33	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R34	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R35	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R36	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R37	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R38	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R39	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R40	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R41	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA4 B40	D : 1 1: 1/0: 1 1 1: )	(µg/m³)	(μg/m³)	(µg/m³)	20/	μg/m <sup>3</sup>	20/	0.20/	2	20/	20/	20/
NSA1_R42	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R43	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA1_R44	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA2_R01	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R02	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R03	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
_	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R05	Residential (Single dwelling)	0.05	0.049	0.048	-3% -2%	0.048 0.048	-2%	0.3% 0.3%	2	2%	2%	2%
NSA2_R06	Residential (Single dwelling)	0.05	0.049	0.048	-2% -2%	0.048	-2%	0.3%	2	2%	2%	2% 2%
NSA2_R07	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-2%		2		2%	
NSA2_R08	Residential (Townhouse)	0.05 0.05	0.049 0.049	0.048	-2%	0.048	-2% -2%	0.3%	2	2%	2% 2%	2% 2%
_	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R10 NSA2_R11	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
<del></del>	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R12 NSA2_R13	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R13 NSA2_R14	Residential (Townhouse)  Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R14	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R16	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R17	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2_R17	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA2_R19	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2 R20	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA2 R21	Residential (Townhouse)	0.05	0.049	0.048	-3%	0.048	-3%	0.3%	2	2%	2%	2%
NSA2 R22	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA2_R23	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
_	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
	Residential (Townhouse)	0.05	0.048	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
	Residential (Townhouse)	0.05	0.048	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.048	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA2_R28	Residential (Single dwelling)	0.05	0.048	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA2_R31	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA2_R32	Residential (Single dwelling)	0.05	0.048	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA2_R33	Residential (Single dwelling)	0.05	0.048	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA2_R34	Residential (Single dwelling)	0.05	0.048	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA3_R01	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA3_R02	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA3_R03	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA3_R04	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA3_R05	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA3_R06	Residential (Single dwelling)	0.05	0.048	0.048	-1%	0.048	0%	0.1%	2	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NCA4 DO1	Decidential (Single dwelling)	(μg/m³) 0.05	(μg/m³) 0.049	(μg/m³) 0.048	-1%	μg/m³ 0.048	-1%	0.2%	2	2%	2%	2%
NSA4_R01	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA4_R02 NSA4_R03	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA4_R03 NSA4_R04	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA4_R04 NSA4_R05	Residential (Single dwelling) Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA5_R01	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA5 R02	Residential (Single dwelling)	0.05	0.048	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA6 R01	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA6 R02	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA6_R03	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.4%	2	2%	2%	2%
NSA6 R04	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA6 R05	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA6 R06	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
 NSA7_R01	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA8 R01	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA8_R02	Residential (Single dwelling)	0.05	0.050	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA8_R03	Residential (Single dwelling)	0.05	0.050	0.048	-4%	0.048	-3%	0.5%	2	2%	2%	2%
NSA8_R04	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA8_R05	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA8_R06	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA8_R07	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA8_R08	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA8_R09	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA8_R10	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA8_R11	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA8_R12	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA8_R15	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA8_R16	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
	Residential (Townhouse)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2% 2%	2%	2%
	Residential (Single dwelling) Residential (Single dwelling)	0.05 0.05	0.049 0.049	0.048 0.048	-1% -1%	0.048	-1% -1%	0.1% 0.1%	2	2%	2% 2%	2%
NSA9_R02 NSA9_R03	Residential (Single dwelling)  Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA9_R03	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
_	Residential (Single dwelling)  Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
	Residential (Single dwelling)  Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA9 R08	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA9 R09	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
_	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOAC D44	Desidential (Circula deselling)	(µg/m³)	(µg/m³)	(µg/m³)	40/	μg/m³ 0.048	-1%	0.2%	2	20/	20/	20/
NSA9_R14	Residential (Single dwelling)	0.05 0.05	0.049 0.050	0.048	-1% -3%	0.048	-3%	0.4%	2	2% 2%	2% 2%	2%
NSA9_R15	Residential (Single dwelling)				-2%	0.048	-1%	0.4%				
NSA10_R01	Residential (Single dwelling)	0.05 0.05	0.049 0.049	0.048	-2%	0.048	-176	0.2%	2	2% 2%	2% 2%	2%
NSA10_R02	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R03	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R04	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R05 NSA10_R06	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R06 NSA10_R07	Residential (Single dwelling) Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R07 NSA10_R08		0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R00	Residential (Single dwelling) Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
<del></del>	, , , ,	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R10 NSA10_R11	Residential (Single dwelling) Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R11	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R12 NSA10_R13	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.2%	2	2%	2%	2%
NSA10_R13	Residential (Single dwelling)	0.05	0.050	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA10_R14	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA10_R16	Residential (Single dwelling)	0.05	0.052	0.048	-7%	0.048	-6%	0.9%	2	3%	2%	2%
NSA11 R01	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-3%	0.3%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA12_R02	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA12_R03	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
NSA12 R04	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12 R05	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12 R06	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R07	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
_	Residential (Single dwelling)	0.05	0.050	0.048	-5%	0.048	-4%	0.5%	2	3%	2%	2%
	Residential (Single dwelling)	0.05	0.050	0.048	-3%	0.048	-3%	0.3%	2	2%	2%	2%
NSA12 R10	Residential (Single dwelling)	0.05	0.050	0.048	-4%	0.048	-4%	0.5%	2	3%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
_	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.3%	2	2%	2%	2%
	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R14	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R15	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R16	Residential (Single dwelling)	0.05	0.050	0.048	-4%	0.048	-3%	0.4%	2	2%	2%	2%
NSA12_R17	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R18	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R19	Residential (Townhouse)	0.05	0.050	0.048	-3%	0.048	-3%	0.3%	2	2%	2%	2%
NSA12_R20	Residential (Townhouse)	0.05	0.051	0.048	-6%	0.048	-5%	0.6%	2	3%	2%	2%
NSA12_R21	Residential (Townhouse)	0.05	0.050	0.048	-5%	0.048	-4%	0.5%	2	3%	2%	2%
NSA12_R22	Residential (Townhouse)	0.05	0.050	0.048	-3%	0.048	-3%	0.4%	2	2%	2%	2%
NSA12_R23	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R24	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-I	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing Conditions	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)		μg/m³				(2010)	(== 1.)	
NSA12_R25	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-3%	0.3%	2	2%	2%	2%
NSA12_R26	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA12_R27	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA12_R28	Residential (Single dwelling)	0.05	0.049	0.048	-3%	0.048	-2%	0.3%	2	2%	2%	2%
NSA12_R29	Residential (Single dwelling)	0.05	0.050	0.048	-3%	0.048	-3%	0.3%	2	2%	2%	2%
NSA12_R30	Residential (Single dwelling)	0.05	0.050	0.048	-4%	0.048	-4%	0.4%	2	2%	2%	2%
NSA12_R31	Residential (Single dwelling)	0.05	0.051	0.048	-5%	0.048	-5%	0.6%	2	3%	2%	2%
NSA12_R32	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-5%	0.6%	2	3%	2%	2%
NSA12_R33	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R34	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R35	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R36	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R37	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R38	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R39	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R40	Residential (Single dwelling)	0.05	0.049	0.048	-1%	0.048	-1%	0.1%	2	2%	2%	2%
NSA12_R41	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R42	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R43	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R44	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R45	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R46	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R47	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R48	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R49	Residential (Townhouse)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R50	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-5%	0.6%	2	3%	2%	2%
NSA12_R51	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-5%	0.6%	2	3%	2%	2%
NSA12_R52	Residential (Single dwelling)	0.05	0.051	0.048	-5%	0.048	-5%	0.6%	2	3%	2%	2%
NSA12_R53	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-5%	0.7%	2	3%	2%	2%
NSA12_R54	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-5%	0.7%	2	3%	2%	2%
NSA12_R55	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-5%	0.6%	2	3%	2%	2%
NSA12_R56	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-5%	0.7%	2	3%	2%	2%
NSA12_R57	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-6%	0.7%	2	3%	2%	2%
NSA12_R58	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-6%	0.7%	2	3%	2%	2%
NSA12_R59	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-6%	0.7%	2	3%	2%	2%
NSA12_R60	Residential (Single dwelling)	0.05	0.051	0.048	-6%	0.048	-6%	0.7%	2	3%	2%	2%
NSA12_R61	Residential (Single dwelling)	0.05	0.051	0.048	-5%	0.048	-5%	0.5%	2	3%	2%	2%
NSA12_R62	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R63	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-1%	0.2%	2	2%	2%	2%
NSA12_R64	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%
NSA12_R65	Residential (Single dwelling)	0.05	0.049	0.048	-2%	0.048	-2%	0.2%	2	2%	2%	2%

Table B-21 24-hr Maximum Formaldehyde Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No-	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Conditions	μg/m³	Existing Conditions	Build		Conditions (2010)	(2041)	
NSA1_R01	Residential (Single dwelling)	3.3	3.38	3.38	-0.1%	3.38	0%	0.1%	65	5%	5%	5%
NSA1_R02	Residential (Single dwelling)	3.3	3.38	3.38	-0.1%	3.38	0%	0.1%	65	5%	5%	5%
NSA1_R03	Residential (Single dwelling)	3.3	3.37	3.37	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA1_R04	Residential (Single dwelling)	3.3	3.38	3.38	-0.1%	3.38	0%	0.1%	65	5%	5%	5%
NSA1_R05	Residential (Condominium)	3.3	3.36	3.36	0.0%	3.36	0%	0.0%	65	5%	5%	5%
NSA1_R06	Residential (Townhouse)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R07	Residential (Townhouse)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R08	Residential (Townhouse)	3.3	3.35	3.35	0.0%	3.35	0%	0.0%	65	5%	5%	5%
NSA1_R09	Residential (Townhouse)	3.3	3.35	3.35	-0.1%	3.35	0%	0.0%	65	5%	5%	5%
NSA1_R10	Residential (Townhouse)	3.3	3.35	3.35	0.0%	3.35	0%	0.0%	65	5%	5%	5%
NSA1_R11	Residential (Townhouse)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R12	Residential (Townhouse)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R13	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R14	Residential (Single dwelling)	3.3	3.34	3.33	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R15	Residential (Townhouse)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R16	Residential (Townhouse)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R17	Residential (Townhouse)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA1_R18	Residential (Townhouse)	3.3	3.38	3.37	-0.1%	3.38	0%	0.1%	65	5%	5%	5%
NSA1_R19	Residential (Townhouse)	3.3	3.38	3.38	-0.1%	3.38	0%	0.1%	65	5%	5%	5%
NSA1_R20	Residential (Single dwelling)	3.3	3.35	3.35	0.0%	3.35	0%	0.0%	65	5%	5%	5%
NSA1_R21	Residential (Single dwelling)	3.3	3.37	3.36	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA1_R22	Residential (Single dwelling)	3.3	3.35	3.35	0.0%	3.35	0%	0.0%	65	5%	5%	5%
NSA1_R23	Residential (Townhouse)	3.3	3.36	3.35	0.0%	3.36	0%	0.0%	65	5%	5%	5%
NSA1_R24	Residential (Townhouse)	3.3	3.35	3.35	0.0%	3.35	0%	0.0%	65	5%	5%	5%
NSA1_R25	Residential (Townhouse)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R26	Residential (Townhouse)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R27	Residential (Townhouse)	3.3	3.35	3.35	0.0%	3.35	0%	0.0%	65	5%	5%	5%
NSA1_R28	Residential (Townhouse)	3.3	3.36	3.36	0.0%	3.36	0%	0.0%	65	5%	5%	5%
NSA1_R29	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA1_R30	Residential (Single dwelling)	3.3	3.33	3.32	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA1_R31	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA1_R32	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA1_R33	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA1_R34	Residential (Single dwelling)	3.3	3.36	3.36	0.0%	3.36	0%	0.0%	65	5%	5%	5%
NSA1_R35	Residential (Single dwelling)	3.3	3.36	3.36	0.0%	3.37	0%	0.1%	65	5%	5%	5%
NSA1_R36	Residential (Single dwelling)	3.3	3.37	3.36	0.0%	3.37	0%	0.1%	65	5%	5%	5%
NSA1_R37	Residential (Single dwelling)	3.3	3.34	3.33	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R38	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA1_R39	Residential (Single dwelling)	3.3	3.37	3.36	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA1_R40	Residential (Single dwelling)	3.3	3.37	3.37	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA1_R41	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NCA4 D40	Danidantial (Cinala duellian)	(µg/m³) 3.3	(μg/m³) 3.36	(µg/m³) 3.36	Conditions 0.0%	μg/m³ 3.36	0%	0.1%	65	5%	5%	5%
NSA1_R42 NSA1_R43	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.37	3.37	0.0%	3.37	0%	0.1%	65	5%	5%	5%
NSA1_R44	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA2_R01	Residential (Single dwelling)	3.3	3.37	3.37	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R02	Residential (Single dwelling)	3.3	3.37	3.37	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R03	Residential (Single dwelling)	3.3	3.37	3.37	0.0%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R04	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA2_R05	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA2_R06	Residential (Single dwelling)	3.3	3.34	3.33	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA2_R07	Residential (Townhouse)	3.3	3.37	3.37	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R08	Residential (Townhouse)	3.3	3.37	3.36	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R09	Residential (Townhouse)	3.3	3.37	3.37	-0.1%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R10	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA2_R11	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA2_R12	Residential (Single dwelling)	3.3 3.3	3.34 3.37	3.34	0.0%	3.34	0% 0%	0.0% 0.1%	65 65	5% 5%	5% 5%	5% 5%
NSA2_R13 NSA2_R14	Residential (Townhouse)  Residential (Townhouse)	3.3	3.37	3.37	0.0%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R15	Residential (Single dwelling)	3.3	3.37	3.37	0.0%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R16	Residential (Single dwelling)	3.3	3.38	3.37	0.0%	3.38	0%	0.1%	65	5%	5%	5%
NSA2_R17	Residential (Single dwelling)	3.3	3.37	3.37	0.0%	3.38	0%	0.1%	65	5%	5%	5%
 NSA2_R18	Residential (Single dwelling)	3.3	3.36	3.36	0.0%	3.37	0%	0.1%	65	5%	5%	5%
NSA2_R19	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA2_R20	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA2_R21	Residential (Townhouse)	3.3	3.35	3.35	0.0%	3.35	0%	0.0%	65	5%	5%	5%
NSA2_R22	Residential (Single dwelling)	3.3	3.34	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA2_R23	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA2_R24	Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA2_R25	Residential (Townhouse)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA2_R26	Residential (Cingle duelling)	3.3 3.3	3.31 3.31	3.31	0.0%	3.31	0% 0%	0.0%	65	5%	5% 5%	5% 5%
NSA2_R27	Residential (Single dwelling)	3.3	3.31	3.31	0.0% 0.1%	3.32	0%	0.0%	65 65	5% 5%	5%	5%
NSA2_R28 NSA2_R29	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.1%	65	5%	5%	5%
NSA2_R29	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA2_R31	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA2_R32	Residential (Single dwelling)	3.3	3.31	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA2_R33	Residential (Single dwelling)	3.3	3.31	3.31	0.0%	3.31	0%	0.0%	65	5%	5%	5%
NSA2_R34	Residential (Single dwelling)	3.3	3.31	3.31	0.1%	3.31	0%	0.0%	65	5%	5%	5%
NSA3_R01	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA3_R02	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA3_R03	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA3_R04	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA3_R05	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA3_R06	Residential (Single dwelling)	3.3	3.31	3.31	0.0%	3.31	0%	0.0%	65	5%	5%	5%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NO.44 - DO.4		(µg/m³)	(μg/m³)	(μg/m³)	Conditions	μg/m³		0.00/	05	50/		50/
NSA4_R01	Residential (Single dwelling)	3.3 3.3	3.32 3.32	3.33	0.1% 0.1%	3.33	0% 0%	0.0%	65 65	5% 5%	5%	5% 5%
NSA4_R02 NSA4_R03	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5% 5%	5%
NSA4_R03 NSA4_R04	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA4_R05	Residential (Single dwelling)	3.3	3.33	3.33	0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA5_R01	Residential (Single dwelling)	3.3	3.33	3.33	0.2%	3.33	0%	0.0%	65	5%	5%	5%
NSA5_R02	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA6_R01	Residential (Single dwelling)	3.3	3.34	3.35	0.2%	3.35	0%	0.0%	65	5%	5%	5%
NSA6_R02	Residential (Single dwelling)	3.3	3.34	3.34	0.2%	3.34	0%	0.0%	65	5%	5%	5%
NSA6_R03	Residential (Single dwelling)	3.3	3.33	3.34	0.2%	3.34	0%	0.1%	65	5%	5%	5%
NSA6_R04	Residential (Single dwelling)	3.3	3.32	3.33	0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA6_R05	Residential (Single dwelling)	3.3	3.33	3.34	0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA6_R06	Residential (Single dwelling)	3.3	3.34	3.34	0.2%	3.34	0%	0.0%	65	5%	5%	5%
NSA7_R01	Residential (Single dwelling)	3.3	3.32	3.33	0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA8_R01	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA8_R02	Residential (Single dwelling)	3.3	3.34	3.35	0.1%	3.35	0%	0.0%	65	5%	5%	5%
NSA8_R03	Residential (Single dwelling)	3.3 3.3	3.36 3.33	3.36	0.1%	3.36	0%	0.1%	65	5% 5%	5%	5% 5%
NSA8_R04	Residential (Single dwelling)	3.3	3.33	3.34	0.1%	3.33	0% 0%	0.0%	65 65	5%	5% 5%	5%
NSA8_R05 NSA8_R06	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.33	3.33	0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA8_R07	Residential (Single dwelling)	3.3	3.33	3.33	0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA8_R08	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA8 R09	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
 NSA8_R10	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.1%	65	5%	5%	5%
NSA8_R11	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.1%	65	5%	5%	5%
NSA8_R12	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA8_R13	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA8_R14	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA8_R15	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.1%	65	5%	5%	5%
NSA8_R16	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA8_R17	Residential (Townhouse)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R01	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R02 NSA9_R03	Residential (Single dwelling)  Residential (Single dwelling)	3.3 3.3	3.32 3.32	3.32	0.1% 0.1%	3.32	0% 0%	0.0%	65 65	5% 5%	5% 5%	5% 5%
NSA9_R03 NSA9_R04	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R04 NSA9_R05	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R06	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA9 R07	Residential (Single dwelling)	3.3	3.32	3.32	0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R08	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R09	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R10	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R11	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA9_R13	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.1%	65	5%	5%	5%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NCAO DAA	Desidential (Cinale desalling)	(µg/m³) 3.3	(μg/m³) 3.32	(μg/m³) 3.32	Conditions 0.0%	μg/m³ 3.32	0%	0.0%	65	5%	5%	5%
NSA9_R14 NSA9_R15	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.34	3.34	0.0%	3.34	0%	0.0%	65	5%	5%	5%
NSA10 R01	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.32	0%	0.0%	65	5%	5%	5%
NSA10 R02	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA10 R03	Residential (Single dwelling)	3.3	3.32	3.32	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA10_R04	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.1%	65	5%	5%	5%
NSA10_R05	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA10_R06	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA10_R07	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.1%	65	5%	5%	5%
NSA10_R08	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.1%	65	5%	5%	5%
NSA10_R09	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.1%	65	5%	5%	5%
NSA10_R10	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA10_R11	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.0%	65	5%	5%	5%
NSA10_R12	Residential (Single dwelling)	3.3	3.33	3.33	0.0%	3.33	0%	0.1%	65	5%	5%	5%
NSA10_R13	Residential (Single dwelling)	3.3 3.3	3.33 3.38	3.33	0.0%	3.33	0% 0%	0.0%	65 65	5% 5%	5% 5%	5% 5%
NSA10_R14 NSA10_R15	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.36	3.36	0.0%	3.36	0%	0.0%	65	5%	5%	5%
NSA10_R15 NSA10_R16	Residential (Single dwelling)	3.3	3.45	3.44	-0.1%	3.45	0%	0.0%	65	5%	5%	5%
NSA11 R01	Residential (Single dwelling)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12 R01	Residential (Single dwelling)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12_R02	Residential (Single dwelling)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12_R03	Residential (Single dwelling)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12_R04	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R05	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R06	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R07	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R08	Residential (Single dwelling)	3.3	3.38	3.37	-0.2%	3.38	0%	0.0%	65	5%	5%	5%
NSA12_R09	Residential (Single dwelling)	3.3	3.36	3.35	-0.2%	3.35	0%	0.0%	65	5%	5%	5%
NSA12_R10	Residential (Single dwelling)	3.3 3.3	3.38 3.34	3.37 3.34	-0.2% -0.1%	3.37 3.34	0% 0%	0.0%	65 65	5%	5% 5%	5% 5%
NSA12_R11 NSA12_R12	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65 65	5% 5%	5%	5%
NSA12_R12 NSA12_R13	Residential (Single dwelling)  Residential (Single dwelling)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12_R14	Residential (Single dwelling)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12_R15	Residential (Single dwelling)	3.3	3.34	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R16	Residential (Single dwelling)	3.3	3.37	3.36	-0.2%	3.36	0%	0.0%	65	5%	5%	5%
NSA12_R17	Residential (Single dwelling)	3.3	3.34	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R18	Residential (Single dwelling)	3.3	3.34	3.33	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12_R19	Residential (Townhouse)	3.3	3.36	3.36	-0.2%	3.36	0%	0.0%	65	5%	5%	5%
NSA12_R20	Residential (Townhouse)	3.3	3.41	3.40	-0.3%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R21	Residential (Townhouse)	3.3	3.39	3.39	-0.3%	3.39	0%	0.0%	65	5%	5%	5%
NSA12_R22	Residential (Townhouse)	3.3	3.37	3.36	-0.2%	3.36	0%	0.0%	65	5%	5%	5%
NSA12_R23	Residential (Townhouse)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12_R24	Residential (Townhouse)	3.3	3.35	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing Conditions	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NO.440 DOS	D : 1 " 1 (O: 1 1 1 III )	(μg/m³)	(μg/m³)	(µg/m³)		µg/m³	00/	0.00/	0.5	F0/	F0/	F0/
NSA12_R25	Residential (Single dwelling)	3.3	3.36	3.35	-0.1%	3.35	0%	0.0%	65	5%	5%	5%
NSA12_R26	Residential (Single dwelling)	3.3	3.35	3.35	-0.1%	3.35	0%	0.0%	65	5%	5%	5%
NSA12_R27	Residential (Single dwelling)	3.3	3.35	3.35	-0.1%	3.35	0%	0.0%	65	5%	5%	5%
NSA12_R28	Residential (Single dwelling)	3.3	3.35	3.35	-0.1%	3.35	0%	0.0%	65	5%	5%	5%
NSA12_R29	Residential (Single dwelling)	3.3	3.36	3.36	-0.1%	3.36	0%	0.0%	65	5%	5%	5%
NSA12_R30	Residential (Single dwelling)	3.3	3.38	3.37	-0.1%	3.37	0%	0.0%	65	5%	5%	5%
NSA12_R31	Residential (Single dwelling)	3.3	3.40	3.39	-0.2%	3.39	0%	0.0%	65	5%	5%	5%
NSA12_R32	Residential (Single dwelling)	3.3	3.41	3.40	-0.3%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R33	Residential (Single dwelling)	3.3	3.34	3.34	-0.1%	3.34	0%	0.0%	65	5%	5%	5%
NSA12_R34	Residential (Townhouse)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R35	Residential (Townhouse)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R36	Residential (Townhouse)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R37	Residential (Townhouse)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R38	Residential (Townhouse)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R39	Residential (Townhouse)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R40	Residential (Single dwelling)	3.3	3.33	3.32	-0.1%	3.32	0%	0.0%	65	5%	5%	5%
NSA12_R41	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R42	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R43	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R44	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R45	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R46	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R47	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R48	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R49	Residential (Townhouse)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R50	Residential (Single dwelling)	3.3	3.41	3.40	-0.2%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R51	Residential (Single dwelling)	3.3	3.41	3.40	-0.2%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R52	Residential (Single dwelling)	3.3	3.40	3.39	-0.2%	3.39	0%	0.0%	65	5%	5%	5%
NSA12_R53	Residential (Single dwelling)	3.3	3.41	3.40	-0.2%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R54	Residential (Single dwelling)	3.3	3.41	3.40	-0.2%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R55	Residential (Single dwelling)	3.3	3.40	3.39	-0.2%	3.39	0%	0.0%	65	5%	5%	5%
NSA12_R56	Residential (Single dwelling)	3.3	3.41	3.40	-0.3%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R57	Residential (Single dwelling)	3.3	3.41	3.40	-0.2%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R58	Residential (Single dwelling)	3.3	3.41	3.40	-0.2%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R59	Residential (Single dwelling)	3.3	3.41	3.40	-0.2%	3.40	0%	0.0%	65	5%	5%	5%
NSA12_R60	Residential (Single dwelling)	3.3	3.41	3.40	-0.3%	3.40	0%	0.0%	65	5%	5%	5%
	Residential (Single dwelling)	3.3	3.39	3.38	-0.2%	3.38	0%	0.0%	65	5%	5%	5%
NSA12_R62	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R63	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R64	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12 R65	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%
NSA12_R65	Residential (Single dwelling)	3.3	3.33	3.33	-0.1%	3.33	0%	0.0%	65	5%	5%	5%

Table B-22 24-hr Maximum B[a]P Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	-hr Maximum B[a]P Concentrations fo	Background	Existing Conditions (2018)	Future No-E			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	24-hr Max Concentration	24-hr Max Concentration	% change from Existing	24-hr Max Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m <sup>3</sup> )	Conditions	μg/m <sup>3</sup>	, and the second	Balla				
NSA1_R01	Residential (Single dwelling)	1.20E-04	3.49E-04	1.97E-04	-44%	1.97E-04	-44%	0%	5.00E-05	699%	394%	394%
NSA1_R02	Residential (Single dwelling)	1.20E-04	3.48E-04	1.96E-04	-44%	1.96E-04	-44%	0%	5.00E-05	695%	393%	393%
NSA1_R03	Residential (Single dwelling)	1.20E-04	3.32E-04	1.91E-04	-42%	1.91E-04	-42%	0%	5.00E-05	663%	382%	382%
NSA1_R04	Residential (Single dwelling)	1.20E-04	3.60E-04	2.01E-04	-44%	2.01E-04	-44%	0%	5.00E-05	720%	401%	401%
NSA1_R05	Residential (Condominium)	1.20E-04	3.05E-04	1.82E-04	-40%	1.82E-04	-40%	0%	5.00E-05	609%	364%	365%
NSA1_R06	Residential (Townhouse)	1.20E-04	2.38E-04	1.60E-04	-33%	1.60E-04	-33%	0%	5.00E-05	476%	321%	321%
NSA1_R07	Residential (Townhouse)	1.20E-04	2.42E-04	1.62E-04	-33%	1.62E-04	-33%	0%	5.00E-05	484%	323%	323%
NSA1_R08	Residential (Townhouse)	1.20E-04	2.54E-04	1.66E-04	-35%	1.66E-04	-35%	0%	5.00E-05	507%	331%	331%
NSA1_R09	Residential (Townhouse)	1.20E-04	2.52E-04	1.65E-04	-34%	1.65E-04	-34%	0%	5.00E-05	504%	330%	330%
NSA1_R10	Residential (Townhouse)	1.20E-04	2.56E-04	1.67E-04	-35%	1.67E-04	-35%	0%	5.00E-05	513%	333%	333%
NSA1_R11	Residential (Townhouse)	1.20E-04	2.44E-04	1.62E-04	-33%	1.62E-04	-33%	0%	5.00E-05	487%	324%	325%
NSA1_R12	Residential (Townhouse)	1.20E-04	2.26E-04	1.56E-04	-31%	1.56E-04	-31%	0%	5.00E-05	452%	312%	312%
NSA1_R13	Residential (Single dwelling)	1.20E-04	2.31E-04	1.58E-04	-32%	1.58E-04	-32%	0%	5.00E-05	461%	316%	316%
NSA1_R14	Residential (Single dwelling)	1.20E-04	2.21E-04	1.55E-04	-30%	1.55E-04	-30%	0%	5.00E-05	443%	309%	309%
NSA1_R15	Residential (Townhouse)	1.20E-04	2.40E-04	1.61E-04	-33%	1.61E-04	-33%	0%	5.00E-05	480%	322%	322%
NSA1_R16	Residential (Townhouse)	1.20E-04	2.28E-04	1.57E-04	-31%	1.57E-04	-31%	0%	5.00E-05	457%	314%	314%
NSA1_R17	Residential (Townhouse)	1.20E-04	2.04E-04	1.49E-04	-27%	1.49E-04	-27%	0%	5.00E-05	407%	297%	297%
NSA1_R18	Residential (Townhouse)	1.20E-04	3.40E-04	1.94E-04	-43%	1.94E-04	-43%	0%	5.00E-05	681%	388%	388%
NSA1_R19	Residential (Townhouse)	1.20E-04	3.50E-04	1.97E-04	-44%	1.97E-04	-44%	0%	5.00E-05	699%	394%	394%
NSA1_R20	Residential (Single dwelling)	1.20E-04	2.71E-04	1.71E-04	-37%	1.71E-04	-37%	0%	5.00E-05	542%	342%	342%
NSA1_R21	Residential (Single dwelling)	1.20E-04	3.09E-04	1.84E-04	-41%	1.84E-04	-41%	0%	5.00E-05	618%	368%	368%
NSA1_R22	Residential (Single dwelling)	1.20E-04	2.78E-04	1.73E-04	-38%	1.73E-04	-38%	0%	5.00E-05	555%	347%	347%
NSA1_R23	Residential (Townhouse)	1.20E-04	2.81E-04	1.74E-04	-38%	1.74E-04	-38%	0%	5.00E-05	561%	349%	349%
NSA1_R24	Residential (Townhouse)	1.20E-04	2.65E-04	1.69E-04	-36%	1.69E-04	-36%	0%	5.00E-05	530%	338%	338%
NSA1_R25	Residential (Townhouse)	1.20E-04	2.48E-04	1.64E-04	-34%	1.64E-04	-34%	0%	5.00E-05	497%	327%	327%
NSA1_R26	Residential (Townhouse)	1.20E-04	2.24E-04	1.55E-04	-31%	1.56E-04	-31%	0%	5.00E-05	448%	311%	311%
NSA1_R27	Residential (Townhouse)	1.20E-04	2.54E-04	1.66E-04	-35%	1.66E-04	-35%	0%	5.00E-05	508%	331%	331%
NSA1_R28	Residential (Townhouse)	1.20E-04	3.04E-04	1.82E-04	-40%	1.82E-04	-40%	0%	5.00E-05	609%	365%	365%
NSA1_R29	Residential (Single dwelling)	1.20E-04	1.84E-04	1.42E-04	-23%	1.42E-04	-23%	0%	5.00E-05	367%	283%	283%
NSA1_R30	Residential (Single dwelling)	1.20E-04	1.91E-04	1.44E-04	-25%	1.44E-04	-25%	0%	5.00E-05	382%	288%	288%
NSA1_R31	Residential (Single dwelling)	1.20E-04	2.12E-04	1.51E-04	-29%	1.52E-04	-29%	0%	5.00E-05	425%	303%	303%
NSA1_R32	Residential (Single dwelling)	1.20E-04	2.05E-04	1.49E-04	-27%	1.49E-04	-27%	0%	5.00E-05	410%	298%	298%
NSA1_R33	Residential (Single dwelling)	1.20E-04	2.13E-04	1.52E-04	-29%	1.52E-04	-29%	0%	5.00E-05	427%	304%	304%
NSA1_R34	Residential (Single dwelling)	1.20E-04	3.02E-04	1.81E-04	-40%	1.81E-04	-40%	0%	5.00E-05	603%	363%	363%
NSA1_R35	Residential (Single dwelling)	1.20E-04	3.08E-04	1.84E-04	-40%	1.84E-04	-40%	0%	5.00E-05	617%	367%	367%
NSA1_R36	Residential (Single dwelling)	1.20E-04	3.11E-04	1.85E-04	-41%	1.85E-04	-41%	0%	5.00E-05	622%	369%	369%
NSA1_R37	Residential (Single dwelling)	1.20E-04	2.21E-04	1.54E-04	-30%	1.54E-04	-30%	0%	5.00E-05	441%	309%	309%
NSA1_R38	Residential (Single dwelling)	1.20E-04	2.27E-04	1.57E-04	-31%	1.57E-04	-31%	0%	5.00E-05	454%	313%	313%
NSA1_R39	Residential (Single dwelling)	1.20E-04	3.10E-04	1.84E-04	-41%	1.84E-04	-41%	0%	5.00E-05	619%	368%	368%
NSA1_R40	Residential (Single dwelling)	1.20E-04	3.16E-04	1.86E-04	-41%	1.86E-04	-41%	0%	5.00E-05	631%	372%	372%
NSA1 R41	Residential (Single dwelling)	1.20E-04	2.18E-04	1.53E-04	-30%	1.53E-04	-30%	0%	5.00E-05	435%	307%	307%

Model   Mode	Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
No. No.   No.	ID	Туре		Concentration	Concentration	Existing	Concentration			AAQC (µg/m³)			Future Build (2041)
NSSE PRO	NSA1 R42	Residential (Single dwelling)		(1.5)		-40%		-40%	0%	5.00E-05	611%	365%	365%
NACE_PRIST   Assistance (Single deselling)   1.079-04   3.799-04   1.970-04   1.970-04   1.970-04   3.799-04   1.970-04   3.799-04   1.970-04   3.799-04   1.970-04   3.799-04   1.970-04   3.799-04	NSA1_R43	Residential (Single dwelling)	1.20E-04	3.15E-04	1.86E-04	-41%	1.86E-04	-41%	0%	5.00E-05	629%	372%	372%
NSS-2 RES	NSA1_R44	Residential (Single dwelling)	1.20E-04	2.03E-04	1.48E-04	-27%	1.48E-04	-27%	0%	5.00E-05	407%	297%	297%
No. 10.	NSA2_R01	Residential (Single dwelling)	1.20E-04	3.25E-04	1.89E-04	-42%	1.89E-04	-42%	0%	5.00E-05	650%	378%	378%
NSS-2 PMS	NSA2_R02	Residential (Single dwelling)	1.20E-04	3.18E-04	1.87E-04	-41%	1.87E-04	-41%	0%	5.00E-05	636%	374%	374%
NASA_PEG   Residential (Single dealling)   1.25C-04   2.25C-04   1.58C-04   -90%   1.58C-04   -90%   5.05C-05   -444%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   2.25C-04   1.58C-04   -90%   5.05C-05   -444%   5.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   3.28C-04   1.98C-04   -42%   5.98C-04   -42%   0.9%   5.05C-05   6.68C   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   3.28C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   6.68C   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   2.38C-04   1.98C-04   -42%   0.9%   5.05C-05   6.68C   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   2.38C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   6.68C   470%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   2.38C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   470%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   2.38C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   470%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   2.38C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   470%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   3.32C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   6.47%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   3.32C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   6.47%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   3.32C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   6.49%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   3.32C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   6.49%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   3.32C-04   1.98C-04   -42%   1.98C-04   -42%   0.9%   5.05C-05   6.49%   3.99%   NASA_PEG   Residential (Single dealling)   1.25C-04   3.32C-04   1.98C-04   -42%   1.98C-04	NSA2_R03	Residential (Single dwelling)	1.20E-04	3.29E-04	1.91E-04	-42%	1.91E-04	-42%	0%	5.00E-05	659%	381%	381%
NSSQ_R10   Residential (Townbrane)   1.200.04   2.220.04   1.500.04   -4.0%   1.550.04   -4.0%   0.0%   5.000.05   4.44%   5.00%   NSSQ_R10	NSA2_R04	Residential (Single dwelling)	1.20E-04	2.17E-04	1.53E-04	-29%	1.53E-04	-29%	0%	5.00E-05	434%	306%	306%
NSAC_RD7   Residential (Townbouse)   1.20E-04   3.28E-04   1.90E-04   4.2%   1.90E-04   4.4%   0%   5.00E-05   5.99%   3.90%   NSAC_RD8   Residential (Townbouse)   1.20E-04   3.48E-04   1.90E-04   4.4%   1.90E-04   4.4%   0%   5.00E-05   6.07%   3.71%   NSAC_RD8   Residential (Townbouse)   1.20E-04   3.26E-04   1.10E-04   4.2%   1.90E-04   4.2%   0%   5.00E-05   6.07%   3.91%   NSAC_RD8   Residential (Townbouse)   1.20E-04   2.36E-04   1.10E-04   4.2%   1.00E-04   4.2%   0%   5.00E-05   4.70%   3.18%   NSAC_RD8   Residential (Townbouse)   1.20E-04   2.36E-04   1.10E-04   3.35%   1.00E-04   3.37%   0%   5.00E-05   4.70%   3.18%   NSAC_RD8   Residential (Townbouse)   1.20E-04   2.36E-04   1.10E-04   3.35%   1.00E-04   3.37%   0%   5.00E-05   4.70%   3.21%   NSAC_RD8   Residential (Townbouse)   1.20E-04   3.20E-04   1.10E-04   3.37%   1.00E-04   4.2%   0.9%   5.00E-05   4.70%   3.21%   NSAC_RD8   Residential (Townbouse)   1.20E-04   3.20E-04   1.10E-04   4.2%   1.92E-04   4.2%   0.9%   5.00E-05   6.64%   3.37%   NSAC_RD8   Residential (Townbouse)   1.20E-04   3.20E-04   1.30E-04   4.2%   1.92E-04   4.2%   0.9%   5.00E-05   6.64%   3.39%   NSAC_RD8   Residential (Townbouse)   1.20E-04   3.37E-04   1.30E-04   4.2%   1.92E-04   4.2%   0.9%   5.00E-05   6.64%   3.39%   NSAC_RD8   Residential (Townbouse)   1.20E-04   3.37E-04   1.30E-04   4.3%   1.30E-04   4.3%   0.9%   5.00E-05   6.64%   3.39%   NSAC_RD8   Residential (Single evenling)   1.20E-04   3.37E-04   1.30E-04   4.3%   1.30E-04   4.3%   0.9%   5.00E-05   6.64%   3.39%   NSAC_RD8   Residential (Single evenling)   1.20E-04   3.30E-04   1.30E-04   4.3%   1.30E-04   4.3%   0.9%   5.00E-05   6.09%   3.30S   NSAC_RD8   Residential (Single evenling)   1.20E-04   3.30E-04   1.30E-04   4.3%   1.30E-04   4.3%   0.9%   5.00E-05   6.09%   3.30S   NSAC_RD8   Residential (Single evenling)   1.20E-04   2.30E-04   1.30E-04   4.39%   1.30E-04   4.3%   0.9%   5.00E-05   6.09%   3.30S   NSAC_RD8   Residential (Single evenling)   1.20E-04   2.30E-04   1.30E-04   4.30S   1.30E-0	NSA2_R05	Residential (Single dwelling)	1.20E-04	2.32E-04	1.58E-04	-32%	1.58E-04	-32%	0%	5.00E-05	464%	316%	316%
NSSC_R05   Residential (Tournbouse)		( 0 0)	+	-			1.55E-04			5.00E-05			309%
NSAZ_RTO  Realcential (Controluce)   1.20E.04   2.28E.04   1.30E.04   -42%   1.50E.04   -32%   0.9%   5.00E.05   5.57%   331%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   2.38E.04   1.50E.04   -32%   1.50E.04   -32%   0.9%   5.00E.05   4.77%   321%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   2.38E.04   1.61E.04   -33%   1.61E.04   -33%   0.9%   5.00E.05   4.77%   321%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   2.38E.04   1.61E.04   -33%   1.61E.04   -33%   0.9%   5.00E.05   4.77%   3.21%     NSAZ_RTO  Realcential (Towntouse)   1.20E.04   3.22E.04   1.80E.04   -4.2%   1.80E.04   -4.2%   0.9%   5.00E.05   6.43%   3.30%     NSAZ_RTO  Realcential (Towntouse)   1.20E.04   3.32E.04   1.30E.04   -4.2%   1.80E.04   -4.2%   0.9%   5.00E.05   6.64%   3.30%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   3.32E.04   1.30E.04   -4.3%   1.00E.04   -4.3%   0.9%   5.00E.05   6.64%   3.30%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   3.47E.04   1.30E.04   -4.3%   1.00E.04   -4.3%   0.9%   5.00E.05   0.045%   3.305%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   3.50E.04   1.37E.04   -4.49%   1.97E.04   -4.49%   0.9%   5.00E.05   0.045%   3.305%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   3.50E.04   1.37E.04   -4.49%   1.37E.04   -4.49%   0.9%   5.00E.05   0.045%   3.305%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   3.50E.04   1.37E.04   -4.49%   1.37E.04   -4.49%   0.9%   5.00E.05   0.045%   3.305%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   2.20E.04   1.37E.04   -4.49%   1.37E.04   -4.49%   0.9%   5.00E.05   0.045%   3.305%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   2.20E.04   1.36E.04   -3.3%   1.57E.04   -3.3%   0.9%   5.00E.05   5.006%   3.345%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   2.20E.04   1.36E.04   -3.3%   1.57E.04   -3.3%   0.9%   5.00E.05   5.006%   3.345%     NSAZ_RTO  Realcential (Single owelling)   1.20E.04   2.20E.04   1.50E.04   -3.3%   1.50E.04   -3.3%   0.9%   5.00E.05	NSA2_R07	Residential (Townhouse)											380%
NSA2_R10   Residental (Single dealling)   1.20E-04   2.38E-04   1.58E-04   -32%   1.58E-04   -32%   0%   5.00E-05   477%   318%   NSA2_R12   Residental (Single dealling)   1.20E-04   2.38E-04   1.6E-04   -33%   1.6E-04   -33%   0%   5.00E-05   478%   321%   NSA2_R13   Residental (Tombouse)   1.20E-04   3.28E-04   1.6E-04   -33%   1.6E-04   -33%   0%   5.00E-05   478%   321%   NSA2_R13   Residental (Tombouse)   1.20E-04   3.28E-04   1.6E-04   -32%   1.6E-04   -42%   0%   5.00E-05   604%   376%   NSA2_R13   Residental (Single dealling)   1.20E-04   3.28E-04   1.6E-04   -42%   1.6E-04   -42%   0%   5.00E-05   604%   383%   NSA2_R13   NSA2_R13   Residental (Single dealling)   1.20E-04   3.37E-04   1.98E-04   -42%   1.98E-04   -42%   0%   5.00E-05   604%   383%   NSA2_R13		,		-									371%
NSA2_R12   Residential (Gingle develling)   1.20E-04   2.39E-04   1.61E-04   -33%   1.61E-04   -33%   0%   5.00E-05   477%   321%     NSA2_R12   Residential (Comple develling)   1.20E-04   3.22E-04   1.61E-04   -33%   0%   5.00E-05   643%   376%     NSA2_R14   Residential (Townbouse)   1.20E-04   3.22E-04   1.62E-04   -42%   1.62E-04   -42%   0%   5.00E-05   643%   376%     NSA2_R15   Residential (Townbouse)   1.20E-04   3.32E-04   1.62E-04   -42%   1.62E-04   -42%   0%   5.00E-05   644%   383%     NSA2_R15   Residential (Gingle develling)   1.20E-04   3.32E-04   1.62E-04   -42%   1.62E-04   -42%   0%   5.00E-05   644%   383%     NSA2_R15   Residential (Gingle develling)   1.20E-04   3.47E-04   1.60E-04   -43%   1.60E-04   -43%   0%   5.00E-05   604%   3093%     NSA2_R15   Residential (Gingle develling)   1.20E-04   3.47E-04   1.60E-04   -43%   1.60E-04   -43%   0%   5.00E-05   604%   3093%     NSA2_R16   Residential (Gingle develling)   1.20E-04   3.20E-04   1.67E-04   -42%   1.60E-04   -43%   0%   5.00E-05   604%   3093%     NSA2_R16   Residential (Gingle develling)   1.20E-04   3.20E-04   1.67E-04   -42%   1.60E-04   -42%   0%   5.00E-05   6040%   3093%     NSA2_R10   Residential (Gingle develling)   1.20E-04   2.20E-04   1.60E-04   -33%   1.60E-04   -33%   0%   5.00E-05   6040%   3774%     NSA2_R10   Residential (Gingle develling)   1.20E-04   2.20E-04   1.60E-04   -33%   1.60E-04   -33%   0%   5.00E-05   6400%   3774%     NSA2_R10   Residential (Gingle develling)   1.20E-04   2.20E-04   1.60E-04   -33%   1.60E-04   -33%   0%   5.00E-05   6400%   3774%     NSA2_R10   Residential (Gingle develling)   1.20E-04   2.20E-04   1.50E-04   -33%   1.50E-04   -33%   0%   5.00E-05   6400%   3774%     NSA2_R10   Residential (Gingle develling)   1.20E-04   2.20E-04   1.50E-04   -33%   1.50E-04   -33%   0%   5.00E-05   477%   314%     NSA2_R10   Residential (Gingle develling)   1.20E-04   2.20E-04   1.50E-04   -33%   1.50E-04   -33%   0%   5.00E-05   477%   314%     NSA2_R20   Residential (Gingle develling)   1.20E-04		,		-									381%
NSAZ_R13   Residential (Single dwelling)   1.20E-04   2.38E-04   1.61E-04   -33%   1.61E-04   -33%   0%   5.00E-05   4.78%   3.71%		( 0 0/		-							+		318%
NSA2_R13   Residential (Townhouse)   1.20E-04   3.22E-04   1.88E-04   4.2%   1.88E-04   4.2%   0%   5.00E-05   643%   3.76%   1.88E-04   4.2%   1.88E-04   4.2%   0%   5.00E-05   664%   3.33%   1.88E-04   4.2%   0.88E-04   4.2%	_	, o	<u> </u>										321%
NSA2_R14   Residential (Tournbuse)   1.20E-04   3.32E-04   1.52E-04   4-2%   1.52E-04   4-2%   0%   5.00E-05   684%   383%   NSA2_R15   Residential (Single dwelling)   1.20E-04   3.37E-04   1.50E-04   4-3%   1.90E-04   4-3%   0%   5.00E-05   684%   383%   NSA2_R17   Residential (Single dwelling)   1.20E-04   3.47E-04   4-43%   1.90E-04   4-43%   0%   5.00E-05   684%   383%   NSA2_R17   Residential (Single dwelling)   1.20E-04   3.50E-04   1.97E-04   4-44%   0%   5.00E-05   699%   3344%   1.97E-04   4-42%   1.				-									321%
NSA2 R16   Residential (Single dwelling)   1.20E-04   3.37E-04   1.98E-04   4.3%   1.98E-04   4.43%   0.9%   5.00E-05   694%   3.988%   NSA2 R16   Residential (Single dwelling)   1.20E-04   3.27E-04   1.98E-04   4.43%   1.98E-04   4.43%   0.9%   5.00E-05   694%   3.993%   NSA2 R18   Residential (Single dwelling)   1.20E-04   3.20E-04   1.97E-04   4.44%   0.9%   5.00E-05   6.99%   3.944%   NSA2 R18   Residential (Single dwelling)   1.20E-04   3.20E-04   1.57E-04   4.42%   1.97E-04   4.22%   0.9%   5.00E-05   6.640%   3.74%   NSA2 R19   Residential (Single dwelling)   1.20E-04   2.28E-04   1.58E-04   4.23%   1.97E-04   4.23%   0.9%   5.00E-05   6.640%   3.74%   NSA2 R19   Residential (Single dwelling)   1.20E-04   2.28E-04   1.58E-04   3.39%   1.98E-04   3.33%   0.9%   5.00E-05   4.72%   3.12%   NSA2 R218   Residential (Single dwelling)   1.20E-04   2.28E-04   1.72E-04   3.99%   1.72E-04   3.99%   0.9%   5.00E-05   6.660%   3.43%   NSA2 R22   Residential (Single dwelling)   1.20E-04   2.24E-04   1.58E-04   3.99%   0.9%   5.00E-05   6.660%   3.43%   NSA2 R22   Residential (Single dwelling)   1.20E-04   2.24E-04   1.58E-04   3.99%   0.9%   5.00E-05   6.660%   3.43%   NSA2 R23   Residential (Single dwelling)   1.20E-04   2.29E-04   1.58E-04   3.39%   1.58E-04   3.39%   0.9%   5.00E-05   4.679%   3.19%   NSA2 R23   Residential (Single dwelling)   1.20E-04   2.29E-04   1.58E-04   3.29%   1.00E-04   3.22%   0.9%   5.00E-05   4.679%   3.19%   NSA2 R26   Residential (Single dwelling)   1.20E-04   1.56E-04   1.38E-04   1.58E-04   1.58E-04   1.59E-04   3.22%   0.9%   5.00E-05   3.11%   2.00E-05   3.11%   2.00E-		, ,	+	-									376% 383%
NSAZ_RTS   Residential (Single aveiling)   1.20E-04   3.47E-04   1.96E-04   -43%   1.96E-04   -43%   0%   5.00E-05   694%   393%   1.98E-04   1.97E-04   -44%   1.97E-04   -44%   1.97E-04   -44%   0%   5.00E-05   699%   394%   1.98E-04   1.98E-04   1.97E-04   -44%   1.97E-04   -44%   1.97E-04   -44%   0%   5.00E-05   699%   394%   1.98E-04   1.98E-0		,		-									386%
NSA2_R18   Residential (Single dwelling)   1.20E-04   3.50E-04   1.97E-04   -44%   1.97E-04   -44%   0%   5.00E-05   699%   3.94%   NSA2_R18   Residential (Single dwelling)   1.20E-04   2.28E-04   1.57E-04   -42%   1.87E-04   -42%   0%   5.00E-05   640%   3.74%   NSA2_R19   Residential (Single dwelling)   1.20E-04   2.28E-04   1.56E-04   -331%   1.58E-04   -331%   0%   5.00E-05   4.55%   3.12%   NSA2_R20   Residential (Single dwelling)   1.20E-04   2.38E-04   1.58E-04   -33%   1.58E-04   -333%   0%   5.00E-05   5.66%   3.43%   NSA2_R21   Residential (Single dwelling)   1.20E-04   2.38E-04   1.72E-04   -3.99%   1.72E-04   -3.99%   0%   5.00E-05   5.66%   3.43%   NSA2_R22   Residential (Single dwelling)   1.20E-04   2.38E-04   1.58E-04   -3.56%   1.58E-04   -3.56%   0%   5.00E-05   5.66%   3.43%   NSA2_R22   Residential (Single dwelling)   1.20E-04   2.38E-04   1.58E-04   -3.56%   1.58E-04   -3.56%   0%   5.00E-05   4.66%   3.11%   NSA2_R23   Residential (Single dwelling)   1.20E-04   2.38E-04   1.58E-04   -3.56%   1.58E-04   -3.39%   0%   5.00E-05   4.66%   3.11%   NSA2_R24   Residential (Single dwelling)   1.20E-04   2.34E-04   1.50E-04   -3.39%   1.59E-04   -3.39%   0%   5.00E-05   4.69%   3.19%   NSA2_R25   Residential (Single dwelling)   1.20E-04   2.34E-04   1.50E-04   -3.25%   1.60E-04   -3.22%   0%   5.00E-05   3.33%   2.72%   NSA2_R25   Residential (Single dwelling)   1.20E-04   1.58E-04   1.38E-04   -1.98%   1.38E-04   -1.98%   0%   5.00E-05   3.11%   2.65%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.58E-04   1.38E-04   -1.98%   1.38E-04   -1.98%   0%   5.00E-05   3.15%   2.67%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.58E-04   1.38E-04   -1.98%   1.38E-04   -1.98%   0%   5.00E-05   3.22%   2.77%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.58E-04   1.38E-04   -1.98%   1.38E-04   -1.98%   0%   5.00E-05   3.23%   2.77%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.58E-04   1.38E-04   -1.98%   1.38E-04   -1.98%   0%   5.00E-05   3.33%   2.76%   NSA2		( 0 0/	<u> </u>										393%
NSA2_R18   Residential (Single dwelling)   1.20E-04   3.20E-04   1.87E-04   -42%   1.87E-04   -42%   0%   5.00E-05   640%   374%   NSA2_R19   Residential (Single dwelling)   1.20E-04   2.28E-04   1.58E-04   -31%   1.58E-04   -31%   0%   5.00E-05   455%   312%   312%   NSA2_R20   Residential (Single dwelling)   1.20E-04   2.38E-04   1.58E-04   -33%   1.58E-04   -33%   0%   5.00E-05   472%   318%   NSA2_R21   Residential (Tomhouse)   1.20E-04   2.38E-04   1.58E-04   -38%   1.72E-04   -38%   0%   5.00E-05   566%   343%   NSA2_R21   Residential (Single dwelling)   1.20E-04   2.28E-04   1.58E-04   -38%   1.58E-04   -38%   0%   5.00E-05   468%   317%   NSA2_R23   Residential (Single dwelling)   1.20E-04   2.38E-04   1.58E-04   -33%   1.58E-04   -33%   0%   5.00E-05   468%   317%   NSA2_R23   Residential (Single dwelling)   1.20E-04   2.34E-04   1.58E-04   -33%   1.58E-04   -33%   0%   5.00E-05   469%   318%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   -32%   1.58E-04   -33%   0%   5.00E-05   469%   318%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   1.88   1.38E-04   1.88   0%   5.00E-05   333%   272%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   1.58E-04	_	, o											394%
NSA2_R21   Residential (Single dwelling)   1.20E-04   2.28E-04   1.58E-04   -31%   1.58E-04   -31%   0%   5.00E-05   4.55%   312%     NSA2_R20   Residential (Single dwelling)   1.20E-04   2.38E-04   1.59E-04   -33%   1.59E-04   -33%   0%   5.00E-05   4.72%   318%     NSA2_R21   Residential (Single dwelling)   1.20E-04   2.42E-04   1.58E-04   -35%   1.59E-04   -35%   0%   5.00E-05   566%   343%     NSA2_R22   Residential (Single dwelling)   1.20E-04   2.42E-04   1.59E-04   -35%   1.59E-04   -35%   0%   5.00E-05   485%   317%     NSA2_R23   Residential (Single dwelling)   1.20E-04   2.34E-04   1.59E-04   -33%   1.59E-04   -33%   0%   5.00E-05   485%   317%     NSA2_R24   Residential (Single dwelling)   1.20E-04   2.34E-04   1.59E-04   -33%   1.59E-04   -33%   0%   5.00E-05   485%   318%     NSA2_R25   Residential (Townhouse)   1.20E-04   1.67E-04   1.36E-04   1.38E-04   -18%   1.36E-04   -18%   0%   5.00E-05   333%   2.72%     NSA2_R26   Residential (Townhouse)   1.20E-04   1.57E-04   1.38E-04   -15%   1.32E-04   -15%   0%   5.00E-05   311%   2.65%     NSA2_R27   Residential (Townhouse)   1.20E-04   1.57E-04   1.38E-04   -15%   1.34E-04   -15%   0%   5.00E-05   311%   2.65%     NSA2_R28   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   -15%   1.34E-04   -15%   0%   5.00E-05   315%   2.67%     NSA2_R28   Residential (Single dwelling)   1.20E-04   1.66E-04   1.38E-04   -15%   1.34E-04   -15%   0%   5.00E-05   332%   2.77%     NSA2_R30   Residential (Single dwelling)   1.20E-04   1.66E-04   1.38E-04   -17%   1.38E-04   -17%   0%   5.00E-05   332%   2.77%     NSA2_R31   Residential (Single dwelling)   1.20E-04   1.66E-04   1.38E-04   -17%   1.38E-04   -17%   0%   5.00E-05   333%   2.77%     NSA2_R32   Residential (Single dwelling)   1.20E-04   1.66E-04   1.38E-04   -17%   1.38E-04   -17%   0%   5.00E-05   333%   2.77%     NSA2_R33   Residential (Single dwelling)   1.20E-04   1.66E-04   1.38E-04   -17%   1.38E-04   -17%   0%   5.00E-05   333%   2.77%     NSA2_R33   Residential (Single dwelling)   1.	_			-									375%
NSA2_R20   Residential (Single dwelling)   1.20E-04   2.36E-04   1.59E-04   -33%   1.59E-04   -33%   0%   5.00E-05   472%   318%   NSA2_R21   Residential (Townbouse)   1.20E-04   2.83E-04   1.72E-04   -39%   1.72E-04   -39%   0%   5.00E-05   566%   343%   NSA2_R22   Residential (Single dwelling)   1.20E-04   2.42E-04   1.59E-04   -35%   1.58E-04   -35%   0%   5.00E-05   485%   317%   NSA2_R23   Residential (Single dwelling)   1.20E-04   2.34E-04   1.59E-04   -35%   1.59E-04   -35%   0%   5.00E-05   485%   317%   NSA2_R23   Residential (Single dwelling)   1.20E-04   2.34E-04   1.60E-04   -32%   1.60E-04   -32%   0%   5.00E-05   469%   319%   NSA2_R25   Residential (Townbouse)   1.20E-04   1.67E-04   1.36E-04   -18%   1.36E-04   -18%   0%   5.00E-05   333%   272%   NSA2_R25   Residential (Townbouse)   1.20E-04   1.57E-04   1.36E-04   -15%   1.32E-04   -15%   0%   5.00E-05   311%   265%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.57E-04   1.36E-04   -15%   1.32E-04   -15%   0%   5.00E-05   311%   265%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.57E-04   1.36E-04   -15%   1.32E-04   -15%   0%   5.00E-05   312%   277%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.67E-04   1.36E-04   -16%   1.36E-04   -15%   0%   5.00E-05   332%   277%   NSA2_R28   Residential (Single dwelling)   1.20E-04   1.67E-04   1.36E-04   -16%   1.36E-04   -17%   0%   5.00E-05   332%   275%   NSA2_R39   Residential (Single dwelling)   1.20E-04   1.67E-04   1.36E-04   -17%   1.36E-04   -17%   0%   5.00E-05   332%   275%   NSA2_R39   Residential (Single dwelling)   1.20E-04   1.67E-04   1.36E-04   -17%   1.36E-04   -17%   0%   5.00E-05   333%   276%   NSA2_R39   Residential (Single dwelling)   1.20E-04   1.67E-04   1.36E-04   -17%   1.36E-04   -17%   0%   5.00E-05   333%   276%   NSA2_R39   Residential (Single dwelling)   1.20E-04   1.67E-04   1.36E-04   -17%   1.36E-04   -17%   0%   5.00E-05   333%   276%   NSA2_R39   Residential (Single dwelling)   1.20E-04   1.57E-04   1.36E-04   -17%   1.36E-04   -17	_	, o		-							455%		312%
NSA2_R21   Residential (Single dwelling)   1.20E-04   2.83E-04   1.72E-04   -39%   1.72E-04   -39%   0%   5.00E-05   566%   343%   1.85A2_R22   Residential (Single dwelling)   1.20E-04   2.42E-04   1.58E-04   -353%   1.58E-04   -353%   0%   5.00E-05   486%   317%   1.86A2_R23   Residential (Single dwelling)   1.20E-04   2.38E-04   1.59E-04   -33%   1.59E-04   -33%   0%   5.00E-05   486%   317%   1.86E-04   -328   1.80E-04   -328   1.80E-04   -328   0%   5.00E-05   486%   319%   1.80E-04   -328   1.80E-04   -328   1.80E-04   -328   0%   5.00E-05   486%   319%   1.80E-04   -328   1.80E-04   -328   1.80E-04   -328   0%   5.00E-05   486%   319%   1.80E-04   -328   -3		( 0 0)	1.20E-04	2.36E-04	1.59E-04	-33%	1.59E-04	-33%	0%	5.00E-05	472%	318%	318%
NSA2_R23   Residential (Single dwelling)   1.20E-04   2.39E-04   1.59E-04  33%   1.59E-04  33%   0%   5.00E-05   478%   318%     NSA2_R24   Residential (Single dwelling)   1.20E-04   2.34E-04   1.60E-04  32%   1.60E-04  32%   0%   5.00E-05   469%   319%     NSA2_R25   Residential (Townhouse)   1.20E-04   1.67E-04   1.36E-04   -18%   1.36E-04   -118%   0%   5.00E-05   333%   272%     NSA2_R26   Residential (Townhouse)   1.20E-04   1.57E-04   1.34E-04   -15%   1.32E-04   -15%   0%   5.00E-05   311%   265%     NSA2_R27   Residential (Single dwelling)   1.20E-04   1.61E-04   1.36E-04   -16%   1.36E-04   -15%   0%   5.00E-05   315%   267%     NSA2_R28   Residential (Single dwelling)   1.20E-04   1.61E-04   1.36E-04   -16%   1.36E-04   -15%   1.36E-04   -15%   0%   5.00E-05   332%   271%     NSA2_R28   Residential (Single dwelling)   1.20E-04   1.66E-04   1.38E-04   -17%   1.36E-04   -17%   0%   5.00E-05   332%   275%     NSA2_R30   Residential (Single dwelling)   1.20E-04   1.69E-04   1.38E-04   -17%   1.36E-04   -17%   0%   5.00E-05   333%   276%     NSA2_R31   Residential (Single dwelling)   1.20E-04   1.67E-04   1.38E-04   -17%   1.36E-04   -17%   0%   5.00E-05   333%   276%     NSA2_R32   Residential (Single dwelling)   1.20E-04   1.67E-04   1.38E-04   -17%   1.36E-04   -17%   0%   5.00E-05   333%   276%     NSA2_R33   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   -17%   1.36E-04   -17%   0%   5.00E-05   333%   276%     NSA2_R33   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   -17%   1.36E-04   -14%   0%   5.00E-05   333%   276%     NSA2_R33   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   -14%   1.38E-04   -14%   0%   5.00E-05   333%   276%     NSA2_R33   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   -14%   1.38E-04   -14%   0%   5.00E-05   333%   276%     NSA2_R33   Residential (Single dwelling)   1.20E-04   1.57E-04   1.38E-04   -14%   1.38E-04   -14%   0%   5.00E-05   333%   276%     NSA2_R34   Residential (Single dwellin		Residential (Townhouse)	1.20E-04	2.83E-04	1.72E-04	-39%	1.72E-04	-39%	0%	5.00E-05	566%	343%	343%
NSA2_R24         Residential (Single dwelling)         1_20E-04         2_34E-04         1_60E-04         -32%         1_60E-04         -32%         0%         5_00E-05         469%         319%           NSA2_R25         Residential (Townhouse)         1_20E-04         1_67E-04         1_36E-04         -18%         1_36E-04         -18%         0%         5_00E-05         333%         272%           NSA2_R26         Residential (Townhouse)         1_20E-04         1_56E-04         1_32E-04         -15%         0%         5_00E-05         311%         265%           NSA2_R27         Residential (Single dwelling)         1_20E-04         1_57E-04         1_34E-04         -15%         0%         5_00E-05         315%         265%           NSA2_R28         Residential (Single dwelling)         1_20E-04         1_61E-04         1_36E-04         -15%         0%         5_00E-05         315%         267%           NSA2_R29         Residential (Single dwelling)         1_20E-04         1_61E-04         1_38E-04         -17%         1_38E-04         -17%         0%         5_00E-05         322%         275%           NSA2_R30         Residential (Single dwelling)         1_20E-04         1_69E-04         1_38E-04         -17%         1_38E-04	NSA2_R22	Residential (Single dwelling)	1.20E-04	2.42E-04	1.58E-04	-35%	1.58E-04	-35%	0%	5.00E-05	485%	317%	317%
NSA2_R25 Residential (Townhouse) 1.20E-04 1.67E-04 1.36E-04 -18% 1.36E-04 -18% 0% 5.00E-05 333% 272% NSA2_R26 Residential (Townhouse) 1.20E-04 1.57E-04 1.34E-04 -15% 1.32E-04 -15% 0% 5.00E-05 311% 265% NSA2_R27 Residential (Single dwelling) 1.20E-04 1.57E-04 1.34E-04 -15% 1.34E-04 -15% 0% 5.00E-05 315% 267% NSA2_R28 Residential (Single dwelling) 1.20E-04 1.61E-04 1.36E-04 1.68E-04 1.68E-04 1.58E-04 1.77% 0% 5.00E-05 322% 271% NSA2_R29 Residential (Single dwelling) 1.20E-04 1.68E-04 1.38E-04 1.77% 1.38E-04 1.77% 0% 5.00E-05 332% 275% NSA2_R30 Residential (Single dwelling) 1.20E-04 1.69E-04 1.39E-04 1.38E-04 1.77% 1.38E-04 1.77% 0% 5.00E-05 338% 278% NSA2_R32 Residential (Single dwelling) 1.20E-04 1.59E-04 1.38E-04 1.77% 1.38E-04 1.77% 0% 5.00E-05 333% 276% NSA2_R33 Residential (Single dwelling) 1.20E-04 1.59E-04 1.35E-04 1.55E-04 1.55E-04 1.55E-04 1.55E-04 1.34E-04 1.44% 0% 5.00E-05 313% 268% NSA2_R34 Residential (Single dwelling) 1.20E-04 1.57E-04 1.34E-04 1.44% 1.34E-04 1.44% 0% 5.00E-05 313% 268% NSA2_R34 Residential (Single dwelling) 1.20E-04 1.57E-04 1.34E-04 1.44% 1.34E-04 1.44% 0% 5.00E-05 313% 268% NSA2_R34 Residential (Single dwelling) 1.20E-04 1.57E-04 1.34E-04 1.44% 1.34E-04 1.44% 0% 5.00E-05 313% 268% NSA2_R34 Residential (Single dwelling) 1.20E-04 1.57E-04 1.34E-04 1.44% 1.34E-04 1.44% 0% 5.00E-05 313% 268% NSA2_R34 Residential (Single dwelling) 1.20E-04 1.57E-04 1.34E-04 1.44% 1.34E-04 1.44% 0% 5.00E-05 313% 268% NSA2_R34 Residential (Single dwelling) 1.20E-04 1.57E-04 1.34E-04 1.44% 1.34E-04 1.44% 0% 5.00E-05 311% 267% NSA3_R01 Residential (Single dwelling) 1.20E-04 1.65E-04 1.37E-04 1.77E-04 1.37E-04 1.37E-0	NSA2_R23	Residential (Single dwelling)	1.20E-04	2.39E-04	1.59E-04	-33%	1.59E-04	-33%	0%	5.00E-05	478%	318%	318%
NSA2_R26         Residential (Townhouse)         1.20E-04         1.56E-04         1.32E-04         -15%         1.32E-04         -15%         0%         5.00E-05         311%         265%           NSA2_R27         Residential (Single dwelling)         1.20E-04         1.57E-04         1.34E-04         -15%         0%         5.00E-05         315%         267%           NSA2_R28         Residential (Single dwelling)         1.20E-04         1.61E-04         1.36E-04         -16%         1.36E-04         -15%         1%         5.00E-05         322%         271%           NSA2_R29         Residential (Single dwelling)         1.20E-04         1.66E-04         1.38E-04         -17%         1.38E-04         -17%         0%         5.00E-05         332%         275%           NSA2_R30         Residential (Single dwelling)         1.20E-04         1.69E-04         1.39E-04         -18%         1.39E-04         -18%         0%         5.00E-05         338%         278%           NSA2_R31         Residential (Single dwelling)         1.20E-04         1.59E-04         1.38E-04         -17%         1.38E-04         -17%         0%         5.00E-05         333%         276%           NSA2_R32         Residential (Single dwelling)         1.20E-04 <t< td=""><td>NSA2_R24</td><td>Residential (Single dwelling)</td><td>1.20E-04</td><td>2.34E-04</td><td>1.60E-04</td><td>-32%</td><td>1.60E-04</td><td>-32%</td><td>0%</td><td>5.00E-05</td><td>469%</td><td>319%</td><td>319%</td></t<>	NSA2_R24	Residential (Single dwelling)	1.20E-04	2.34E-04	1.60E-04	-32%	1.60E-04	-32%	0%	5.00E-05	469%	319%	319%
NSAZ_R27         Residential (Single dwelling)         1.20E-04         1.57E-04         1.34E-04         -15%         0%         5.00E-05         315%         267%           NSAZ_R28         Residential (Single dwelling)         1.20E-04         1.61E-04         1.36E-04         -16%         1.36E-04         -15%         1%         5.00E-05         322%         271%           NSAZ_R29         Residential (Single dwelling)         1.20E-04         1.66E-04         1.38E-04         -17%         0%         5.00E-05         332%         275%           NSAZ_R30         Residential (Single dwelling)         1.20E-04         1.69E-04         1.39E-04         -18%         1.39E-04         -18%         0%         5.00E-05         338%         278%           NSAZ_R31         Residential (Single dwelling)         1.20E-04         1.67E-04         1.38E-04         -17%         1.38E-04         -17%         0%         5.00E-05         333%         276%           NSAZ_R31         Residential (Single dwelling)         1.20E-04         1.57E-04         1.38E-04         -17%         1.38E-04         -17%         0%         5.00E-05         333%         276%           NSAZ_R32         Residential (Single dwelling)         1.20E-04         1.57E-04         1.34E-04	NSA2_R25	Residential (Townhouse)	1.20E-04	1.67E-04	1.36E-04	-18%	1.36E-04	-18%	0%	5.00E-05	333%	272%	272%
NSA2_R28         Residential (Single dwelling)         1.20E-04         1.61E-04         1.36E-04         -16%         1.36E-04         -15%         1%         5.00E-05         322%         271%           NSA2_R29         Residential (Single dwelling)         1.20E-04         1.66E-04         1.38E-04         -17%         0%         5.00E-05         332%         275%           NSA2_R30         Residential (Single dwelling)         1.20E-04         1.69E-04         1.39E-04         -18%         1.39E-04         -18%         0%         5.00E-05         338%         278%           NSA2_R31         Residential (Single dwelling)         1.20E-04         1.67E-04         1.38E-04         -17%         1.38E-04         -17%         0%         5.00E-05         338%         278%           NSA2_R31         Residential (Single dwelling)         1.20E-04         1.67E-04         1.38E-04         -17%         1.38E-04         -17%         0%         5.00E-05         333%         276%           NSA2_R32         Residential (Single dwelling)         1.20E-04         1.59E-04         1.35E-04         -15%         1.35E-04         -15%         0%         5.00E-05         313%         268%           NSA2_R33         Residential (Single dwelling)         1.20E-04	NSA2_R26	Residential (Townhouse)	1.20E-04	1.56E-04	1.32E-04	-15%	1.32E-04	-15%	0%	5.00E-05	311%	265%	265%
NSA2_R29         Residential (Single dwelling)         1.20E-04         1.66E-04         1.38E-04         -17%         1.38E-04         -17%         0%         5.00E-05         332%         275%           NSA2_R30         Residential (Single dwelling)         1.20E-04         1.69E-04         1.39E-04         -18%         1.39E-04         -18%         0%         5.00E-05         338%         278%           NSA2_R31         Residential (Single dwelling)         1.20E-04         1.67E-04         1.38E-04         -17%         0%         5.00E-05         333%         276%           NSA2_R31         Residential (Single dwelling)         1.20E-04         1.59E-04         1.35E-04         -15%         1.35E-04         -15%         0%         5.00E-05         333%         276%           NSA2_R32         Residential (Single dwelling)         1.20E-04         1.57E-04         1.34E-04         -14%         0%         5.00E-05         319%         270%           NSA2_R33         Residential (Single dwelling)         1.20E-04         1.57E-04         1.34E-04         -14%         0%         5.00E-05         313%         268%           NSA2_R34         Residential (Single dwelling)         1.20E-04         1.55E-04         1.34E-04         -14%         0%	NSA2_R27	Residential (Single dwelling)	1.20E-04	1.57E-04	1.34E-04	-15%	1.34E-04		0%	5.00E-05	315%	267%	268%
NSA2_R30 Residential (Single dwelling) 1.20E-04 1.69E-04 1.39E-04 -18% 1.39E-04 -18% 0% 5.00E-05 338% 278%   NSA2_R31 Residential (Single dwelling) 1.20E-04 1.67E-04 1.38E-04 -17% 1.38E-04 -17% 0% 5.00E-05 333% 276%   NSA2_R32 Residential (Single dwelling) 1.20E-04 1.59E-04 1.35E-04 -15% 1.35E-04 -15% 0% 5.00E-05 319% 270%   NSA2_R33 Residential (Single dwelling) 1.20E-04 1.57E-04 1.34E-04 -14% 1.34E-04 -14% 0% 5.00E-05 313% 268%   NSA2_R34 Residential (Single dwelling) 1.20E-04 1.55E-04 1.34E-04 -14% 1.34E-04 -14% 0% 5.00E-05 311% 267%   NSA3_R01 Residential (Single dwelling) 1.20E-04 1.65E-04 1.37E-04 -17% 1.37E-04 -17% 0% 5.00E-05 330% 275%   NSA3_R02 Residential (Single dwelling) 1.20E-04 1.64E-04 1.37E-04 -16% 1.37E-04 -16% 0% 5.00E-05 328% 274%   NSA3_R03 Residential (Single dwelling) 1.20E-04 1.71E-04 1.40E-04 -18% 1.40E-04 -18% 0% 5.00E-05 342% 280%	NSA2_R28	Residential (Single dwelling)	+	+							+		273%
NSA2_R31         Residential (Single dwelling)         1.20E-04         1.67E-04         1.38E-04         -17%         1.38E-04         -17%         0%         5.00E-05         333%         276%           NSA2_R32         Residential (Single dwelling)         1.20E-04         1.59E-04         1.35E-04         -15%         1.35E-04         -15%         0%         5.00E-05         319%         270%           NSA2_R33         Residential (Single dwelling)         1.20E-04         1.57E-04         1.34E-04         -14%         1.34E-04         -14%         0%         5.00E-05         313%         268%           NSA2_R34         Residential (Single dwelling)         1.20E-04         1.55E-04         1.34E-04         -14%         1.34E-04         -14%         0%         5.00E-05         311%         267%           NSA3_R01         Residential (Single dwelling)         1.20E-04         1.65E-04         1.37E-04         -17%         1.37E-04         -17%         0%         5.00E-05         330%         275%           NSA3_R02         Residential (Single dwelling)         1.20E-04         1.64E-04         1.37E-04         -16%         1.37E-04         -16%         0%         5.00E-05         328%         274%           NSA3_R03         Residential (Sing	NSA2_R29	Residential (Single dwelling)	+										276%
NSA2_R32         Residential (Single dwelling)         1.20E-04         1.59E-04         1.35E-04         -15%         1.35E-04         -15%         0%         5.00E-05         319%         270%           NSA2_R33         Residential (Single dwelling)         1.20E-04         1.57E-04         1.34E-04         -14%         0%         5.00E-05         313%         268%           NSA2_R34         Residential (Single dwelling)         1.20E-04         1.55E-04         1.34E-04         -14%         0%         5.00E-05         311%         267%           NSA3_R01         Residential (Single dwelling)         1.20E-04         1.65E-04         1.37E-04         -17%         1.37E-04         -17%         0%         5.00E-05         330%         275%           NSA3_R02         Residential (Single dwelling)         1.20E-04         1.64E-04         1.37E-04         -16%         1.37E-04         -16%         0%         5.00E-05         328%         274%           NSA3_R03         Residential (Single dwelling)         1.20E-04         1.71E-04         1.40E-04         -18%         1.40E-04         -18%         0%         5.00E-05         342%         280%		, o	+	+									278%
NSA2_R33 Residential (Single dwelling)  1.20E-04  1.57E-04  1.34E-04  1.34E-			+								+		276%
NSA2_R34 Residential (Single dwelling)  1.20E-04  1.55E-04  1.34E-04  1.34E-04  1.34E-04  1.34E-04  1.34E-04  1.34E-04  1.37E-04  1.37E-		( 0 0)	+	-							+		270%
NSA3_R01         Residential (Single dwelling)         1.20E-04         1.65E-04         1.37E-04         -17%         1.37E-04         -17%         0%         5.00E-05         330%         275%           NSA3_R02         Residential (Single dwelling)         1.20E-04         1.64E-04         1.37E-04         -16%         1.37E-04         -16%         0%         5.00E-05         328%         274%           NSA3_R03         Residential (Single dwelling)         1.20E-04         1.71E-04         1.40E-04         -18%         1.40E-04         -18%         0%         5.00E-05         342%         280%	<del>-</del>	, , , ,	+	+							+		268%
NSA3_R02 Residential (Single dwelling)  1.20E-04  1.64E-04  1.37E-04  -16%  1.37E-04  -16%  0%  5.00E-05  328%  274%  NSA3_R03 Residential (Single dwelling)  1.20E-04  1.71E-04  1.40E-04  -18%  1.40E-04  -18%  0%  5.00E-05  342%  280%		, o	+										267%
NSA3_R03 Residential (Single dwelling) 1.20E-04 1.71E-04 1.40E-04 -18% 1.40E-04 -18% 0% 5.00E-05 342% 280%	_		+								+		275%
	_		+	+							+		274% 280%
NSA3 R04 Residential (Single dwelling) 1.20E-04 1.83E-04 1.44E-04 -21% 1.44E-04 -21% 0% 5.00E-05 366% 288%	NSA3_R03 NSA3_R04	, o	1.20E-04 1.20E-04	1.71E-04 1.83E-04	1.40E-04 1.44E-04	-18%	1.40E-04 1.44E-04	-18% -21%	0%	5.00E-05 5.00E-05	342%	280%	280%
NSA3_R04 Residential (Single dwelling) 1.20E-04 1.63E-04 1.41E-04 -21% 1.41E-04 -19% 0% 5.00E-05 349% 282%		, o	+	+							+		282%
	_	, o	+	+							+		268%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA4 R01	Residential (Single dwelling)	1.20E-04	1.80E-04	1.45E-04	-19%	1.45E-04	-19%	0%	5.00E-05	359%	289%	289%
NSA4_R02	Residential (Single dwelling)	1.20E-04	1.72E-04	1.41E-04	-18%	1.41E-04	-18%	0%	5.00E-05	344%	282%	282%
NSA4_R03	Residential (Single dwelling)	1.20E-04	1.80E-04	1.43E-04	-21%	1.43E-04	-20%	0%	5.00E-05	361%	287%	287%
NSA4_R04	Residential (Single dwelling)	1.20E-04	1.65E-04	1.38E-04	-17%	1.38E-04	-17%	0%	5.00E-05	331%	275%	275%
NSA4_R05	Residential (Single dwelling)	1.20E-04	1.93E-04	1.48E-04	-23%	1.48E-04	-23%	0%	5.00E-05	386%	296%	296%
NSA5_R01	Residential (Single dwelling)	1.20E-04	2.02E-04	1.53E-04	-24%	1.53E-04	-24%	0%	5.00E-05	404%	307%	307%
NSA5_R02	Residential (Single dwelling)	1.20E-04	1.66E-04	1.39E-04	-17%	1.39E-04	-17%	0%	5.00E-05	332%	277%	277%
NSA6_R01	Residential (Single dwelling)	1.20E-04	2.34E-04	1.67E-04	-29%	1.67E-04	-29%	0%	5.00E-05	468%	334%	334%
NSA6_R02	Residential (Single dwelling)	1.20E-04	2.21E-04	1.61E-04	-27%	1.61E-04	-27%	0%	5.00E-05	442%	322%	322%
NSA6_R03	Residential (Single dwelling)	1.20E-04	2.20E-04	1.61E-04	-27%	1.61E-04	-27%	0%	5.00E-05	440%	321%	322%
NSA6_R04	Residential (Single dwelling)	1.20E-04	1.87E-04	1.47E-04	-21%	1.47E-04	-21%	0%	5.00E-05	375%	295%	295%
NSA6_R05	Residential (Single dwelling)	1.20E-04	2.18E-04	1.59E-04	-27%	1.59E-04	-27%	0%	5.00E-05	437%	319%	319%
NSA6_R06	Residential (Single dwelling)	1.20E-04	2.31E-04	1.65E-04	-28%	1.66E-04	-28%	0%	5.00E-05	461%	331%	331%
NSA7_R01	Residential (Single dwelling)	1.20E-04	1.99E-04	1.49E-04	-25%	1.49E-04	-25%	0%	5.00E-05	398%	298%	298%
NSA8_R01	Residential (Single dwelling)	1.20E-04	1.83E-04	1.44E-04	-21%	1.44E-04	-21%	0%	5.00E-05	366%	287%	287%
NSA8_R02	Residential (Single dwelling)	1.20E-04	2.45E-04	1.68E-04	-32%	1.68E-04	-32%	0%	5.00E-05	491%	335%	335%
NSA8_R03	Residential (Single dwelling)	1.20E-04	2.82E-04	1.82E-04	-36%	1.82E-04	-36%	0%	5.00E-05	565%	363%	363%
NSA8_R04	Residential (Single dwelling)	1.20E-04 1.20E-04	2.13E-04 2.02E-04	1.56E-04 1.51E-04	-27% -25%	1.56E-04 1.51E-04	-27% -25%	0% 0%	5.00E-05 5.00E-05	427% 404%	311% 302%	311% 302%
NSA8_R05	Residential (Single dwelling)	1.20E-04 1.20E-04	2.02E-04 2.03E-04	1.51E-04 1.51E-04	-25%	1.51E-04 1.51E-04	-25% -25%	0%	5.00E-05 5.00E-05	404%	302%	303%
NSA8_R06 NSA8_R07	Residential (Single dwelling)  Residential (Single dwelling)	1.20E-04 1.20E-04	1.92E-04	1.47E-04	-23%	1.47E-04	-23%	0%	5.00E-05	384%	295%	295%
NSA8_R08	Residential (Single dwelling)	1.20E-04	1.80E-04	1.47E-04	-21%	1.42E-04	-21%	0%	5.00E-05	360%	285%	285%
NSA8 R09	Residential (Single dwelling)	1.20E-04	1.73E-04	1.40E-04	-19%	1.40E-04	-19%	0%	5.00E-05	346%	279%	279%
NSA8 R10	Residential (Single dwelling)	1.20E-04	1.77E-04	1.41E-04	-20%	1.41E-04	-20%	0%	5.00E-05	353%	282%	282%
NSA8 R11	Residential (Single dwelling)	1.20E-04	1.78E-04	1.41E-04	-20%	1.41E-04	-20%	0%	5.00E-05	355%	283%	283%
NSA8 R12	Residential (Single dwelling)	1.20E-04	1.80E-04	1.42E-04	-21%	1.42E-04	-21%	0%	5.00E-05	360%	284%	284%
 NSA8_R13	Residential (Single dwelling)	1.20E-04	1.71E-04	1.40E-04	-18%	1.40E-04	-18%	0%	5.00E-05	342%	279%	279%
NSA8_R14	Residential (Single dwelling)	1.20E-04	1.68E-04	1.38E-04	-18%	1.38E-04	-18%	0%	5.00E-05	336%	276%	276%
NSA8_R15	Residential (Single dwelling)	1.20E-04	1.71E-04	1.39E-04	-19%	1.39E-04	-19%	0%	5.00E-05	342%	278%	278%
NSA8_R16	Residential (Single dwelling)	1.20E-04	1.68E-04	1.38E-04	-18%	1.38E-04	-18%	0%	5.00E-05	336%	276%	276%
NSA8_R17	Residential (Townhouse)	1.20E-04	1.70E-04	1.38E-04	-19%	1.38E-04	-19%	0%	5.00E-05	340%	277%	277%
NSA9_R01	Residential (Single dwelling)	1.20E-04	1.71E-04	1.39E-04	-19%	1.39E-04	-19%	0%	5.00E-05	342%	278%	278%
NSA9_R02	Residential (Single dwelling)	1.20E-04	1.70E-04	1.38E-04	-19%	1.38E-04	-19%	0%	5.00E-05	340%	277%	277%
NSA9_R03	Residential (Single dwelling)	1.20E-04	1.75E-04	1.40E-04	-20%	1.40E-04	-20%	0%	5.00E-05	350%	281%	281%
NSA9_R04	Residential (Single dwelling)	1.20E-04	1.75E-04	1.40E-04	-20%	1.40E-04	-20%	0%	5.00E-05	349%	280%	280%
NSA9_R05	Residential (Single dwelling)	1.20E-04	1.68E-04	1.38E-04	-18%	1.38E-04	-18%	0%	5.00E-05	337%	276%	276%
NSA9_R06	Residential (Single dwelling)	1.20E-04	1.76E-04	1.41E-04	-20%	1.41E-04	-20%	0%	5.00E-05	352%	281%	281%
NSA9_R07	Residential (Single dwelling)	1.20E-04	1.70E-04	1.38E-04	-19%	1.39E-04	-19%	0%	5.00E-05	340%	277%	277%
NSA9_R08	Residential (Single dwelling)	1.20E-04	1.72E-04	1.39E-04	-19%	1.39E-04	-19%	0%	5.00E-05	344%	278%	278%
NSA9_R09	Residential (Single dwelling)	1.20E-04	1.74E-04	1.39E-04	-20%	1.40E-04	-20%	0%	5.00E-05	347%	279%	279%
NSA9_R10	Residential (Single dwelling)	1.20E-04	1.77E-04	1.39E-04	-21%	1.39E-04	-21%	0%	5.00E-05	354%	278%	279%
NSA9_R11	Residential (Single dwelling)	1.20E-04	1.78E-04	1.40E-04	-21%	1.40E-04	-21%	0%	5.00E-05	355%	280%	280%
NSA9_R13	Residential (Single dwelling)	1.20E-04	1.76E-04	1.40E-04	-20%	1.41E-04	-20%	0%	5.00E-05	351%	280%	281%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration μg/m³	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA9_R14	Residential (Single dwelling)	1.20E-04	1.79E-04	1.41E-04	-21%	1.41E-04	-21%	0%	5.00E-05	358%	282%	283%
NSA9_R15	Residential (Single dwelling)	1.20E-04	2.44E-04	1.65E-04	-33%	1.65E-04	-33%	0%	5.00E-05	489%	329%	329%
NSA10_R01	Residential (Single dwelling)	1.20E-04	1.81E-04	1.42E-04	-22%	1.42E-04	-22%	0%	5.00E-05	363%	284%	284%
NSA10_R02	Residential (Single dwelling)	1.20E-04	1.96E-04	1.48E-04	-25%	1.48E-04	-25%	0%	5.00E-05	391%	295%	295%
NSA10_R03	Residential (Single dwelling)	1.20E-04	1.86E-04	1.44E-04	-23%	1.44E-04	-23%	0%	5.00E-05	373%	288%	288%
NSA10_R04	Residential (Single dwelling)	1.20E-04	1.90E-04	1.45E-04	-24%	1.45E-04	-24%	0%	5.00E-05	380%	290%	290%
NSA10_R05	Residential (Single dwelling)	1.20E-04	1.94E-04	1.47E-04	-25%	1.47E-04	-25%	0%	5.00E-05	389%	293%	293%
NSA10_R06	Residential (Single dwelling)	1.20E-04	1.97E-04	1.48E-04	-25%	1.48E-04	-25%	0%	5.00E-05	394%	295%	295%
NSA10_R07	Residential (Single dwelling)	1.20E-04	1.99E-04	1.48E-04	-25%	1.48E-04	-25%	0%	5.00E-05	398%	296%	296%
NSA10_R08	Residential (Single dwelling)	1.20E-04	2.00E-04	1.49E-04	-26%	1.49E-04	-26%	0%	5.00E-05	400%	297%	297%
NSA10_R09	Residential (Single dwelling)	1.20E-04 1.20E-04	2.01E-04 2.05E-04	1.49E-04 1.51E-04	-26% -26%	1.49E-04 1.51E-04	-26% -26%	0% 0%	5.00E-05 5.00E-05	402% 411%	298% 302%	298% 302%
NSA10_R10 NSA10_R11	Residential (Single dwelling)	1.20E-04 1.20E-04	2.03E-04 2.07E-04	1.51E-04 1.52E-04	-20%	1.51E-04 1.52E-04	-27%	0%	5.00E-05	411%	303%	303%
NSA10_R11 NSA10_R12	Residential (Single dwelling)  Residential (Single dwelling)	1.20E-04	2.03E-04	1.50E-04	-26%	1.50E-04	-26%	0%	5.00E-05	405%	300%	300%
NSA10_R12	Residential (Single dwelling)	1.20E-04	2.04E-04	1.51E-04	-26%	1.51E-04	-26%	0%	5.00E-05	409%	301%	302%
NSA10 R14	Residential (Single dwelling)	1.20E-04	3.51E-04	2.02E-04	-42%	2.02E-04	-42%	0%	5.00E-05	701%	403%	403%
NSA10 R15	Residential (Single dwelling)	1.20E-04	2.99E-04	1.84E-04	-39%	1.84E-04	-39%	0%	5.00E-05	598%	367%	367%
NSA10_R16	Residential (Single dwelling)	1.20E-04	5.30E-04	2.64E-04	-50%	2.64E-04	-50%	0%	5.00E-05	1060%	528%	528%
NSA11_R01	Residential (Single dwelling)	1.20E-04	2.46E-04	1.63E-04	-34%	1.63E-04	-34%	0%	5.00E-05	493%	326%	326%
NSA12_R01	Residential (Single dwelling)	1.20E-04	2.49E-04	1.60E-04	-35%	1.61E-04	-35%	0%	5.00E-05	497%	321%	321%
NSA12_R02	Residential (Single dwelling)	1.20E-04	2.41E-04	1.58E-04	-34%	1.58E-04	-34%	0%	5.00E-05	482%	316%	316%
NSA12_R03	Residential (Single dwelling)	1.20E-04	2.51E-04	1.61E-04	-36%	1.61E-04	-36%	0%	5.00E-05	501%	322%	322%
NSA12_R04	Residential (Single dwelling)	1.20E-04	2.13E-04	1.49E-04	-30%	1.49E-04	-30%	0%	5.00E-05	425%	297%	297%
NSA12_R05	Residential (Single dwelling)	1.20E-04	2.12E-04	1.49E-04	-30%	1.49E-04	-30%	0%	5.00E-05	423%	297%	297%
NSA12_R06	Residential (Single dwelling)	1.20E-04	2.11E-04	1.49E-04	-30%	1.49E-04	-30%	0%	5.00E-05	423%	297%	297%
NSA12_R07	Residential (Single dwelling)	1.20E-04	2.09E-04	1.48E-04	-29%	1.48E-04	-29%	0%	5.00E-05	419%	296%	296%
NSA12_R08	Residential (Single dwelling)	1.20E-04	3.60E-04	1.95E-04	-46%	1.95E-04	-46%	0%	5.00E-05	720%	390%	390%
NSA12_R09	Residential (Single dwelling)	1.20E-04	2.90E-04	1.73E-04	-40%	1.73E-04	-40%	0%	5.00E-05	580%	346%	346%
NSA12_R10	Residential (Single dwelling)	1.20E-04 1.20E-04	3.45E-04 2.53E-04	1.90E-04 1.62E-04	-45% -36%	1.90E-04 1.62E-04	-45% -36%	0% 0%	5.00E-05 5.00E-05	689% 506%	380% 324%	380% 324%
NSA12_R11 NSA12_R12	Residential (Single dwelling)  Residential (Single dwelling)	1.20E-04	2.53E-04 2.53E-04	1.62E-04	-36%	1.62E-04	-36%	0%	5.00E-05	506%	324%	324%
NSA12_R12 NSA12_R13	Residential (Single dwelling)	1.20E-04	2.46E-04	1.60E-04	-35%	1.60E-04	-35%	0%	5.00E-05	491%	319%	319%
NSA12_R14	Residential (Single dwelling)	1.20E-04	2.40E-04	1.58E-04	-34%	1.58E-04	-34%	0%	5.00E-05	480%	316%	316%
NSA12 R15	Residential (Single dwelling)	1.20E-04	2.33E-04	1.56E-04	-33%	1.56E-04	-33%	0%	5.00E-05	465%	311%	311%
NSA12 R16	Residential (Single dwelling)	1.20E-04	3.26E-04	1.84E-04	-43%	1.84E-04	-43%	0%	5.00E-05	651%	368%	368%
NSA12_R17	Residential (Single dwelling)	1.20E-04	2.30E-04	1.55E-04	-33%	1.55E-04	-33%	0%	5.00E-05	461%	310%	310%
NSA12_R18	Residential (Single dwelling)	1.20E-04	2.31E-04	1.55E-04	-33%	1.55E-04	-33%	0%	5.00E-05	462%	310%	310%
NSA12_R19	Residential (Townhouse)	1.20E-04	3.06E-04	1.78E-04	-42%	1.78E-04	-42%	0%	5.00E-05	612%	356%	356%
NSA12_R20	Residential (Townhouse)	1.20E-04	4.43E-04	2.21E-04	-50%	2.21E-04	-50%	0%	5.00E-05	887%	442%	442%
NSA12_R21	Residential (Townhouse)	1.20E-04	3.99E-04	2.07E-04	-48%	2.07E-04	-48%	0%	5.00E-05	797%	414%	414%
NSA12_R22	Residential (Townhouse)	1.20E-04	3.18E-04	1.82E-04	-43%	1.82E-04	-43%	0%	5.00E-05	635%	364%	364%
NSA12_R23	Residential (Townhouse)	1.20E-04	2.33E-04	1.55E-04	-33%	1.55E-04	-33%	0%	5.00E-05	466%	311%	311%
NSA12_R24	Residential (Townhouse)	1.20E-04	2.59E-04	1.64E-04	-37%	1.64E-04	-37%	0%	5.00E-05	518%	327%	327%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	Build (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	24-hr Max Concentration (µg/m³)	% change from Existing Conditions	24-hr Max Concentration µg/m³	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NSA12 R25	Residential (Single dwelling)	1.20E-04	2.92E-04	1.74E-04	-40%	1.74E-04	-40%	0%	5.00E-05	585%	348%	348%
		1.20E-04	2.73E-04	1.68E-04	-38%	1.68E-04	-38%	0%	5.00E-05	547%	336%	336%
NSA12_R26	Residential (Single dwelling)	<b> </b>	2.68E-04	1.67E-04		1.67E-04						333%
NSA12_R27	Residential (Single dwelling)	1.20E-04			-38%		-38%	0%	5.00E-05	536%	333%	
NSA12_R28	Residential (Single dwelling)	1.20E-04	2.70E-04	1.67E-04	-38%	1.67E-04	-38%	0%	5.00E-05	539%	334%	335%
NSA12_R29	Residential (Single dwelling)	1.20E-04	2.96E-04	1.76E-04	-41%	1.76E-04	-41%	0%	5.00E-05	591%	351%	351%
NSA12_R30	Residential (Single dwelling)	1.20E-04	3.43E-04	1.91E-04	-44%	1.91E-04	-44%	0%	5.00E-05	685%	382%	382%
NSA12_R31	Residential (Single dwelling)	1.20E-04	4.15E-04	2.14E-04	-48%	2.14E-04	-48%	0%	5.00E-05	830%	428%	428%
NSA12_R32	Residential (Single dwelling)	1.20E-04	4.44E-04	2.23E-04	-50%	2.23E-04	-50%	0%	5.00E-05	887%	446%	446%
NSA12_R33	Residential (Single dwelling)	1.20E-04	2.40E-04	1.58E-04	-34%	1.58E-04	-34%	0%	5.00E-05	479%	315%	315%
NSA12_R34	Residential (Townhouse)	1.20E-04	2.10E-04	1.49E-04	-29%	1.49E-04	-29%	0%	5.00E-05	420%	298%	298%
NSA12_R35	Residential (Townhouse)	1.20E-04	2.11E-04	1.49E-04	-29%	1.49E-04	-29%	0%	5.00E-05	422%	298%	298%
NSA12_R36	Residential (Townhouse)	1.20E-04	2.12E-04	1.49E-04	-29%	1.49E-04	-29%	0%	5.00E-05	423%	298%	299%
NSA12_R37	Residential (Townhouse)	1.20E-04	2.09E-04	1.49E-04	-29%	1.49E-04	-29%	0%	5.00E-05	419%	297%	297%
NSA12_R38	Residential (Townhouse)	1.20E-04	2.10E-04	1.49E-04	-29%	1.49E-04	-29%	0%	5.00E-05	420%	298%	298%
NSA12_R39	Residential (Townhouse)	1.20E-04	2.09E-04	1.48E-04	-29%	1.48E-04	-29%	0%	5.00E-05	417%	297%	297%
NSA12_R40	Residential (Single dwelling)	1.20E-04	1.94E-04	1.44E-04	-26%	1.44E-04	-26%	0%	5.00E-05	388%	288%	288%
NSA12_R41	Residential (Single dwelling)	1.20E-04	2.09E-04	1.48E-04	-29%	1.48E-04	-29%	0%	5.00E-05	417%	297%	297%
NSA12_R42	Residential (Single dwelling)	1.20E-04	2.08E-04	1.48E-04	-29%	1.48E-04	-29%	0%	5.00E-05	417%	297%	297%
NSA12_R43	Residential (Single dwelling)	1.20E-04	2.06E-04	1.48E-04	-28%	1.48E-04	-28%	0%	5.00E-05	412%	295%	295%
NSA12_R44	Residential (Single dwelling)	1.20E-04	2.05E-04	1.47E-04	-28%	1.47E-04	-28%	0%	5.00E-05	409%	294%	294%
NSA12_R45	Residential (Single dwelling)	1.20E-04	2.03E-04	1.47E-04	-28%	1.47E-04	-28%	0%	5.00E-05	406%	293%	293%
NSA12_R46	Residential (Single dwelling)	1.20E-04	2.00E-04	1.46E-04	-27%	1.46E-04	-27%	0%	5.00E-05	401%	292%	292%
NSA12_R47	Residential (Single dwelling)	1.20E-04	2.01E-04	1.46E-04	-27%	1.46E-04	-27%	0%	5.00E-05	402%	292%	292%
NSA12_R48	Residential (Single dwelling)	1.20E-04	2.04E-04	1.47E-04	-28%	1.47E-04	-28%	0%	5.00E-05	408%	293%	293%
NSA12_R49	Residential (Townhouse)	1.20E-04	2.04E-04	1.47E-04	-28%	1.47E-04	-28%	0%	5.00E-05	409%	294%	294%
NSA12_R50	Residential (Single dwelling)	1.20E-04	4.42E-04	2.23E-04	-50%	2.23E-04	-50%	0%	5.00E-05	885%	445%	445%
NSA12 R51	Residential (Single dwelling)	1.20E-04	4.45E-04	2.24E-04	-50%	2.24E-04	-50%	0%	5.00E-05	890%	447%	447%
NSA12 R52	Residential (Single dwelling)	1.20E-04	4.18E-04	2.15E-04	-49%	2.15E-04	-49%	0%	5.00E-05	835%	430%	430%
NSA12_R53	Residential (Single dwelling)	1.20E-04	4.42E-04	2.23E-04	-50%	2.23E-04	-50%	0%	5.00E-05	883%	445%	445%
NSA12_R54	Residential (Single dwelling)	1.20E-04	4.38E-04	2.21E-04	-49%	2.21E-04	-49%	0%	5.00E-05	875%	443%	443%
NSA12_R55	Residential (Single dwelling)	1.20E-04	4.13E-04	2.13E-04	-48%	2.13E-04	-48%	0%	5.00E-05	825%	427%	427%
NSA12_R55 NSA12_R56	Residential (Single dwelling)  Residential (Single dwelling)	1.20E-04	4.35E-04	2.21E-04	-49%	2.21E-04	-49%	0%	5.00E-05	871%	441%	441%
NSA12_R50 NSA12_R57	( 5 5)	1.20E-04	4.43E-04	2.23E-04	-50%	2.23E-04	-50%	0%	5.00E-05	886%	446%	441%
NSA12_R57 NSA12_R58	Residential (Single dwelling)  Residential (Single dwelling)	1.20E-04 1.20E-04	4.44E-04	2.23E-04 2.23E-04	-50%	2.23E-04 2.23E-04	-50%	0%	5.00E-05	888%	447%	447%
	( 0 0)	1.20E-04 1.20E-04	4.44E-04	2.23E-04 2.23E-04	-50%	2.23E-04 2.23E-04	-50%	0%	5.00E-05	887%	447%	447%
NSA12_R59	Residential (Single dwelling)											447%
NSA12_R60	Residential (Single dwelling)	1.20E-04	4.47E-04	2.25E-04	-50%	2.25E-04	-50%	0%	5.00E-05	895%	449%	
NSA12_R61	Residential (Single dwelling)	1.20E-04	3.88E-04	2.06E-04	-47%	2.06E-04	-47%	0%	5.00E-05	775%	412%	412%
NSA12_R62	Residential (Single dwelling)	1.20E-04	2.09E-04	1.48E-04	-29%	1.48E-04	-29%	0%	5.00E-05	418%	297%	297%
NSA12_R63	Residential (Single dwelling)	1.20E-04	2.07E-04	1.48E-04	-29%	1.48E-04	-29%	0%	5.00E-05	413%	295%	295%
NSA12_R64	Residential (Single dwelling)	1.20E-04	2.10E-04	1.49E-04	-29%	1.49E-04	-29%	0%	5.00E-05	421%	297%	297%
NSA12_R65	Residential (Single dwelling)	1.20E-04	2.11E-04	1.49E-04	-29%	1.49E-04	-29%	0%	5.00E-05	422%	298%	298%

Table B-23 Annual Average B[a]P Concentrations for Existing Conditions, Future No-Build and Future Build Scenarios

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B			Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (µg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(µg/m³)	(µg/m³)	Conditions	μg/m³	Existing Conditions	Build		Conditions (2018)	(2041)	
NSA1_R01	Residential (Single dwelling)	7.80E-05	1.15E-04	9.04E-05	-21%	9.04E-05	-21%	0%	1.00E-05	1151%	904%	904%
NSA1_R02	Residential (Single dwelling)	7.80E-05	1.15E-04	9.03E-05	-21%	9.03E-05	-21%	0%	1.00E-05	1148%	903%	903%
NSA1_R03	Residential (Single dwelling)	7.80E-05	1.12E-04	8.94E-05	-20%	8.94E-05	-20%	0%	1.00E-05	1120%	894%	894%
NSA1_R04	Residential (Single dwelling)	7.80E-05	1.17E-04	9.12E-05	-22%	9.12E-05	-22%	0%	1.00E-05	1174%	912%	912%
NSA1_R05	Residential (Condominium)	7.80E-05	1.07E-04	8.79E-05	-18%	8.79E-05	-18%	0%	1.00E-05	1074%	879%	879%
NSA1_R06	Residential (Townhouse)	7.80E-05	1.16E-04	9.08E-05	-21%	9.08E-05	-21%	0%	1.00E-05	1155%	908%	908%
NSA1_R07	Residential (Townhouse)	7.80E-05	1.17E-04	9.13E-05	-22%	9.13E-05	-22%	0%	1.00E-05	1170%	913%	913%
NSA1_R08	Residential (Townhouse)	7.80E-05	1.21E-04	9.27E-05	-23%	9.27E-05	-23%	0%	1.00E-05	1209%	927%	927%
NSA1_R09	Residential (Townhouse)	7.80E-05	1.21E-04	9.26E-05	-23%	9.26E-05	-23%	0%	1.00E-05	1205%	926%	926%
NSA1_R10	Residential (Townhouse)	7.80E-05	1.22E-04	9.31E-05	-24%	9.31E-05	-24%	0%	1.00E-05	1220%	931%	931%
NSA1_R11	Residential (Townhouse)	7.80E-05	1.18E-04	9.16E-05	-22%	9.16E-05	-22%	0%	1.00E-05	1177%	916%	916%
NSA1_R12	Residential (Townhouse)	7.80E-05	1.12E-04	8.95E-05	-20%	8.95E-05	-20%	0%	1.00E-05	1116%	895%	895%
NSA1_R13	Residential (Single dwelling)	7.80E-05	1.13E-04	9.01E-05	-20%	9.01E-05	-20%	0%	1.00E-05	1133%	901%	901%
NSA1_R14	Residential (Single dwelling)	7.80E-05	1.10E-04	8.89E-05	-19%	8.89E-05	-19%	0%	1.00E-05	1099%	889%	889%
NSA1_R15	Residential (Townhouse)	7.80E-05	1.16E-04	9.11E-05	-22%	9.11E-05	-22%	0%	1.00E-05	1164%	911%	911%
NSA1_R16	Residential (Townhouse)	7.80E-05	1.13E-04	8.99E-05	-20%	8.99E-05	-20%	0%	1.00E-05	1129%	899%	899%
NSA1_R17	Residential (Townhouse)	7.80E-05	1.04E-04	8.70E-05	-17%	8.70E-05	-17%	0%	1.00E-05	1043%	870%	870%
NSA1_R18	Residential (Townhouse)	7.80E-05	1.14E-04	9.01E-05	-21%	9.01E-05	-21%	0%	1.00E-05	1140%	901%	901%
NSA1_R19	Residential (Townhouse)	7.80E-05	1.16E-04	9.07E-05	-22%	9.07E-05	-22%	0%	1.00E-05	1157%	907%	907%
NSA1_R20	Residential (Single dwelling)	7.80E-05	1.01E-04	8.59E-05	-15%	8.59E-05	-15%	0%	1.00E-05	1013%	859%	859%
NSA1_R21	Residential (Single dwelling)	7.80E-05	1.08E-04	8.81E-05	-18%	8.81E-05	-18%	0%	1.00E-05	1080%	881%	881%
NSA1_R22	Residential (Single dwelling)	7.80E-05	1.03E-04	8.63E-05	-16%	8.63E-05	-16%	0%	1.00E-05	1025%	863%	863%
NSA1_R23	Residential (Townhouse)	7.80E-05	1.03E-04	8.64E-05	-16%	8.64E-05	-16%	0%	1.00E-05	1029%	864%	864%
NSA1_R24	Residential (Townhouse)	7.80E-05	1.00E-04	8.55E-05	-15%	8.55E-05	-15%	0%	1.00E-05	1002%	855%	855%
NSA1_R25	Residential (Townhouse)	7.80E-05	9.72E-05	8.45E-05	-13%	8.45E-05	-13%	0%	1.00E-05	972%	845%	845%
NSA1_R26	Residential (Townhouse)	7.80E-05	9.30E-05	8.31E-05	-11%	8.31E-05	-11%	0%	1.00E-05	930%	831%	831%
NSA1_R27	Residential (Townhouse)	7.80E-05	9.82E-05	8.48E-05	-14%	8.48E-05	-14%	0%	1.00E-05	982%	848%	848%
NSA1_R28	Residential (Townhouse)	7.80E-05	1.07E-04	8.78E-05	-18%	8.78E-05	-18%	0%	1.00E-05	1071%	878%	878%
NSA1_R29	Residential (Single dwelling)	7.80E-05	9.75E-05	8.46E-05	-13%	8.46E-05	-13%	0%	1.00E-05	975%	846%	846%
NSA1_R30	Residential (Single dwelling)	7.80E-05	1.00E-04	8.56E-05	-14%	8.56E-05	-14%	0%	1.00E-05	1001%	856%	856%
NSA1_R31	Residential (Single dwelling)	7.80E-05	1.07E-04	8.81E-05	-18%	8.81E-05	-18%	0%	1.00E-05	1074%	881%	881%
NSA1_R32	Residential (Single dwelling)	7.80E-05	1.05E-04	8.72E-05	-17%	8.72E-05	-17%	0%	1.00E-05	1050%	872%	872%
NSA1_R33	Residential (Single dwelling)	7.80E-05	1.08E-04	8.82E-05	-18%	8.83E-05	-18%	0%	1.00E-05	1080%	882%	883%
NSA1_R34	Residential (Single dwelling)	7.80E-05	1.07E-04	8.77E-05	-18%	8.77E-05	-18%	0%	1.00E-05	1066%	877%	877%
NSA1_R35	Residential (Single dwelling)	7.80E-05	1.08E-04	8.81E-05	-18%	8.81E-05	-18%	0%	1.00E-05	1079%	881%	881%
NSA1_R36	Residential (Single dwelling)	7.80E-05	1.08E-04	8.82E-05	-19%	8.82E-05	-19%	0%	1.00E-05	1084%	882%	882%
NSA1_R37	Residential (Single dwelling)	7.80E-05	1.11E-04	8.92E-05	-19%	8.92E-05	-19%	0%	1.00E-05	1106%	892%	892%
NSA1_R38	Residential (Single dwelling)	7.80E-05	1.13E-04	8.99E-05	-20%	8.99E-05	-20%	0%	1.00E-05	1127%	899%	899%
NSA1_R39	Residential (Single dwelling)	7.80E-05	1.08E-04	8.82E-05	-18%	8.82E-05	-18%	0%	1.00E-05	1081%	882%	882%
NSA1_R40	Residential (Single dwelling)	7.80E-05	1.09E-04	8.86E-05	-19%	8.86E-05	-19%	0%	1.00E-05	1093%	886%	886%
NSA1_R41	Residential (Single dwelling)	7.80E-05	1.09E-04	8.87E-05	-19%	8.87E-05	-19%	0%	1.00E-05	1093%	887%	887%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NIGAT DIG		(µg/m³)	(μg/m³)	(μg/m³)	Conditions	μg/m <sup>3</sup>		00/	4.005.05			0000/
NSA1_R42	Residential (Single dwelling)	7.80E-05	1.08E-04 1.09E-04	8.80E-05	-18%	8.80E-05	-18%	0%	1.00E-05 1.00E-05	1076%	880%	880%
NSA1_R43	Residential (Single dwelling)	7.80E-05 7.80E-05	1.09E-04 1.04E-04	8.85E-05 8.69E-05	-19% -17%	8.85E-05 8.69E-05	-19% -17%	0% 0%	1.00E-05	1092% 1042%	885% 869%	885% 869%
NSA1_R44 NSA2_R01	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	1.11E-04	8.91E-05	-20%	8.91E-05	-20%	0%	1.00E-05	1110%	891%	891%
NSA2_R01	Residential (Single dwelling)	7.80E-05	1.10E-04	8.87E-05	-19%	8.87E-05	-19%	0%	1.00E-05	1096%	887%	887%
NSA2_R03	Residential (Single dwelling)	7.80E-05	1.12E-04	8.93E-05	-20%	8.93E-05	-20%	0%	1.00E-05	1116%	893%	893%
NSA2_R04	Residential (Single dwelling)	7.80E-05	1.09E-04	8.86E-05	-19%	8.86E-05	-19%	0%	1.00E-05	1091%	886%	886%
NSA2_R05	Residential (Single dwelling)	7.80E-05	1.14E-04	9.04E-05	-21%	9.04E-05	-21%	0%	1.00E-05	1143%	904%	904%
NSA2_R06	Residential (Single dwelling)	7.80E-05	1.11E-04	8.92E-05	-19%	8.92E-05	-19%	0%	1.00E-05	1107%	892%	892%
NSA2_R07	Residential (Townhouse)	7.80E-05	1.11E-04	8.91E-05	-20%	8.91E-05	-20%	0%	1.00E-05	1110%	891%	891%
NSA2_R08	Residential (Townhouse)	7.80E-05	1.08E-04	8.81E-05	-18%	8.81E-05	-18%	0%	1.00E-05	1079%	881%	881%
NSA2_R09	Residential (Townhouse)	7.80E-05	1.11E-04	8.91E-05	-20%	8.91E-05	-20%	0%	1.00E-05	1109%	891%	891%
NSA2_R10	Residential (Single dwelling)	7.80E-05	1.15E-04	9.08E-05	-21%	9.08E-05	-21%	0%	1.00E-05	1153%	908%	908%
NSA2_R11	Residential (Single dwelling)	7.80E-05	1.17E-04	9.12E-05	-22%	9.12E-05	-22%	0%	1.00E-05	1165%	912%	912%
NSA2_R12	Residential (Single dwelling)	7.80E-05	1.16E-04	9.11E-05	-22%	9.11E-05	-22%	0%	1.00E-05	1163%	911%	911%
NSA2_R13	Residential (Townhouse)	7.80E-05	1.09E-04	8.85E-05	-19%	8.85E-05	-19%	0%	1.00E-05	1092%	885%	885%
NSA2_R14	Residential (Townhouse)	7.80E-05	1.11E-04	8.91E-05	-20%	8.91E-05	-20%	0%	1.00E-05	1110%	891%	891%
NSA2_R15	Residential (Single dwelling)	7.80E-05	1.12E-04	8.93E-05	-20%	8.93E-05	-20%	0%	1.00E-05	1115%	893%	893%
NSA2_R16	Residential (Single dwelling)	7.80E-05	1.13E-04	8.97E-05	-20%	8.97E-05	-20%	0%	1.00E-05	1128%	897%	897%
NSA2_R17	Residential (Single dwelling)	7.80E-05 7.80E-05	1.11E-04 1.05E-04	8.91E-05 8.71E-05	-20% -17%	8.91E-05 8.71E-05	-20% -17%	0% 0%	1.00E-05 1.00E-05	1114% 1054%	891% 871%	891% 871%
NSA2_R18	Residential (Single dwelling)	7.80E-05	1.03E-04 1.12E-04	8.94E-05	-17%	8.94E-05	-17%	0%	1.00E-05	1115%	894%	894%
NSA2_R19 NSA2_R20	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	1.14E-04	9.01E-05	-21%	9.01E-05	-21%	0%	1.00E-05	1139%	901%	901%
NSA2_R21	Residential (Townhouse)	7.80E-05	1.22E-04	9.23E-05	-24%	9.23E-05	-24%	0%	1.00E-05	1217%	923%	923%
NSA2 R22	Residential (Single dwelling)	7.80E-05	1.05E-04	8.70E-05	-17%	8.70E-05	-17%	0%	1.00E-05	1052%	870%	870%
NSA2_R23	Residential (Single dwelling)	7.80E-05	1.09E-04	8.84E-05	-19%	8.84E-05	-19%	0%	1.00E-05	1092%	884%	884%
NSA2 R24	Residential (Single dwelling)	7.80E-05	9.42E-05	8.34E-05	-11%	8.34E-05	-11%	0%	1.00E-05	942%	834%	834%
NSA2_R25	Residential (Townhouse)	7.80E-05	8.95E-05	8.21E-05	-8%	8.22E-05	-8%	0%	1.00E-05	895%	821%	822%
NSA2_R26	Residential (Townhouse)	7.80E-05	8.71E-05	8.13E-05	-7%	8.13E-05	-7%	0%	1.00E-05	871%	813%	813%
NSA2_R27	Residential (Single dwelling)	7.80E-05	8.89E-05	8.21E-05	-8%	8.22E-05	-8%	0%	1.00E-05	889%	821%	822%
NSA2_R28	Residential (Single dwelling)	7.80E-05	9.12E-05	8.29E-05	-9%	8.31E-05	-9%	0%	1.00E-05	912%	829%	831%
NSA2_R29	Residential (Single dwelling)	7.80E-05	9.33E-05	8.38E-05	-10%	8.39E-05	-10%	0%	1.00E-05	933%	838%	839%
NSA2_R30	Residential (Single dwelling)	7.80E-05	9.43E-05	8.42E-05	-11%	8.42E-05	-11%	0%	1.00E-05	943%	842%	842%
NSA2_R31	Residential (Single dwelling)	7.80E-05	9.33E-05	8.38E-05	-10%	8.38E-05	-10%	0%	1.00E-05	933%	838%	838%
NSA2_R32	Residential (Single dwelling)	7.80E-05	9.07E-05	8.28E-05	-9%	8.29E-05	-9%	0%	1.00E-05	907%	828%	829%
NSA2_R33	Residential (Single dwelling)	7.80E-05	8.97E-05	8.24E-05	-8%	8.25E-05	-8%	0%	1.00E-05	897%	824%	825%
NSA2_R34	Residential (Single dwelling)	7.80E-05	8.92E-05 9.22E-05	8.23E-05	-8%	8.23E-05	-8%	0%	1.00E-05	892%	823%	823%
NSA3_R01	Residential (Single dwelling)	7.80E-05 7.80E-05	9.22E-05 9.17E-05	8.34E-05 8.32E-05	-10% -9%	8.34E-05 8.32E-05	-10% -9%	0% 0%	1.00E-05 1.00E-05	922% 917%	834% 832%	834% 832%
NSA3_R02 NSA3_R03	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	9.17E-05 9.38E-05	8.40E-05	-10%	8.41E-05	-10%	0%	1.00E-05	938%	840%	841%
NSA3_R03 NSA3_R04	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	9.72E-05	8.54E-05	-10%	8.54E-05	-12%	0%	1.00E-05	972%	854%	854%
NSA3_R05	Residential (Single dwelling)	7.80E-05	9.34E-05	8.39E-05	-10%	8.39E-05	-10%	0%	1.00E-05	934%	839%	839%
NSA3 R06	Residential (Single dwelling)	7.80E-05	8.58E-05	8.10E-05	-6%	8.10E-05	-6%	0%	1.00E-05	858%	810%	810%

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
		(µg/m³)	(μg/m³)	(µg/m³)	Conditions	μg/m³			4.005.05			0.700/
NSA4_R01	Residential (Single dwelling)	7.80E-05	9.55E-05	8.52E-05	-11%	8.52E-05	-11%	0%	1.00E-05	955%	852%	852%
NSA4_R02	Residential (Single dwelling)	7.80E-05	9.04E-05	8.31E-05	-8%	8.31E-05	-8%	0%	1.00E-05	904%	831%	831%
NSA4_R03	Residential (Single dwelling)	7.80E-05 7.80E-05	9.43E-05 8.98E-05	8.44E-05 8.26E-05	-10% -8%	8.44E-05 8.27E-05	-10% -8%	0% 0%	1.00E-05 1.00E-05	943% 898%	844% 826%	844% 827%
NSA4_R04 NSA4_R05	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	9.46E-05	8.44E-05	-11%	8.44E-05	-8%	0%	1.00E-05	946%	844%	844%
NSA5_R01	Residential (Single dwelling)	7.80E-05	9.38E-05	8.44E-05	-10%	8.44E-05	-10%	0%	1.00E-05	938%	844%	844%
NSA5 R02	Residential (Single dwelling)	7.80E-05	9.02E-05	8.30E-05	-8%	8.30E-05	-8%	0%	1.00E-05	902%	830%	830%
NSA6 R01	Residential (Single dwelling)	7.80E-05	1.04E-04	8.89E-05	-15%	8.89E-05	-15%	0%	1.00E-05	1044%	889%	889%
NSA6 R02	Residential (Single dwelling)	7.80E-05	1.08E-04	9.01E-05	-16%	9.01E-05	-16%	0%	1.00E-05	1076%	901%	901%
NSA6_R03	Residential (Single dwelling)	7.80E-05	1.07E-04	8.98E-05	-16%	8.98E-05	-16%	0%	1.00E-05	1069%	898%	898%
NSA6_R04	Residential (Single dwelling)	7.80E-05	9.58E-05	8.53E-05	-11%	8.53E-05	-11%	0%	1.00E-05	958%	853%	853%
NSA6_R05	Residential (Single dwelling)	7.80E-05	1.05E-04	8.88E-05	-15%	8.88E-05	-15%	0%	1.00E-05	1049%	888%	888%
NSA6_R06	Residential (Single dwelling)	7.80E-05	1.04E-04	8.86E-05	-15%	8.86E-05	-15%	0%	1.00E-05	1042%	886%	886%
NSA7_R01	Residential (Single dwelling)	7.80E-05	9.67E-05	8.50E-05	-12%	8.50E-05	-12%	0%	1.00E-05	967%	850%	850%
NSA8_R01	Residential (Single dwelling)	7.80E-05	9.34E-05	8.38E-05	-10%	8.38E-05	-10%	0%	1.00E-05	934%	838%	838%
NSA8_R02	Residential (Single dwelling)	7.80E-05	1.19E-04	9.33E-05	-22%	9.33E-05	-22%	0%	1.00E-05	1190%	933%	933%
NSA8_R03	Residential (Single dwelling)	7.80E-05	1.27E-04	9.63E-05	-24%	9.63E-05	-24%	0%	1.00E-05	1267%	963%	963%
NSA8_R04	Residential (Single dwelling)	7.80E-05	1.06E-04	8.83E-05	-16%	8.83E-05	-16%	0%	1.00E-05	1055%	883%	883%
NSA8_R05	Residential (Single dwelling)	7.80E-05	1.02E-04	8.70E-05	-15%	8.70E-05	-15%	0%	1.00E-05	1020%	870%	870%
NSA8_R06	Residential (Single dwelling)	7.80E-05	1.02E-04	8.70E-05	-15%	8.70E-05	-15%	0%	1.00E-05	1021%	870%	870%
NSA8_R07	Residential (Single dwelling)	7.80E-05	9.90E-05	8.59E-05	-13%	8.59E-05	-13%	0%	1.00E-05	990%	859%	859%
NSA8_R08	Residential (Single dwelling)	7.80E-05 7.80E-05	9.70E-05 9.45E-05	8.51E-05 8.41E-05	-12% -11%	8.51E-05 8.41E-05	-12% -11%	0% 0%	1.00E-05 1.00E-05	970% 945%	851% 841%	851% 841%
NSA8_R09 NSA8_R10	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	9.45E-05	8.45E-05	-11%	8.45E-05	-12%	0%	1.00E-05	955%	845%	845%
NSA8 R11	Residential (Single dwelling)	7.80E-05	9.61E-05	8.47E-05	-12%	8.47E-05	-12%	0%	1.00E-05	961%	847%	847%
NSA8_R12	Residential (Single dwelling)	7.80E-05	9.67E-05	8.49E-05	-12%	8.49E-05	-12%	0%	1.00E-05	967%	849%	849%
NSA8 R13	Residential (Single dwelling)	7.80E-05	9.37E-05	8.39E-05	-10%	8.39E-05	-10%	0%	1.00E-05	937%	839%	839%
NSA8 R14	Residential (Single dwelling)	7.80E-05	9.30E-05	8.36E-05	-10%	8.36E-05	-10%	0%	1.00E-05	930%	836%	836%
NSA8_R15	Residential (Single dwelling)	7.80E-05	9.44E-05	8.40E-05	-11%	8.41E-05	-11%	0%	1.00E-05	944%	840%	841%
NSA8_R16	Residential (Single dwelling)	7.80E-05	9.46E-05	8.41E-05	-11%	8.41E-05	-11%	0%	1.00E-05	946%	841%	841%
NSA8_R17	Residential (Townhouse)	7.80E-05	9.40E-05	8.39E-05	-11%	8.39E-05	-11%	0%	1.00E-05	940%	839%	839%
NSA9_R01	Residential (Single dwelling)	7.80E-05	9.39E-05	8.39E-05	-11%	8.39E-05	-11%	0%	1.00E-05	939%	839%	839%
NSA9_R02	Residential (Single dwelling)	7.80E-05	9.35E-05	8.37E-05	-10%	8.37E-05	-10%	0%	1.00E-05	935%	837%	837%
NSA9_R03	Residential (Single dwelling)	7.80E-05	9.55E-05	8.44E-05	-12%	8.45E-05	-12%	0%	1.00E-05	955%	844%	845%
NSA9_R04	Residential (Single dwelling)	7.80E-05	9.53E-05	8.44E-05	-11%	8.44E-05	-11%	0%	1.00E-05	953%	844%	844%
NSA9_R05	Residential (Single dwelling)	7.80E-05	9.32E-05	8.36E-05	-10%	8.36E-05	-10%	0%	1.00E-05	932%	836%	836%
NSA9_R06	Residential (Single dwelling)	7.80E-05	9.57E-05	8.45E-05	-12%	8.45E-05	-12%	0%	1.00E-05	957%	845%	845%
NSA9_R07	Residential (Single dwelling)	7.80E-05	9.40E-05	8.39E-05	-11%	8.39E-05	-11%	0%	1.00E-05	940%	839%	839%
NSA9_R08	Residential (Single dwelling)	7.80E-05	9.51E-05	8.42E-05	-11%	8.42E-05	-11%	0%	1.00E-05	951%	842%	842%
NSA9_R09	Residential (Single dwelling)	7.80E-05 7.80E-05	9.66E-05 9.74E-05	8.46E-05 8.48E-05	-12% -13%	8.46E-05 8.49E-05	-12% -13%	0% 0%	1.00E-05 1.00E-05	966% 974%	846% 848%	846% 849%
NSA9_R10 NSA9_R11	Residential (Single dwelling)	7.80E-05 7.80E-05	9.74E-05 9.70E-05	8.48E-05 8.47E-05	-13%	8.49E-05 8.48E-05	-13%	0%	1.00E-05	974%	848%	849%
_	Residential (Single dwelling)	7.80E-05	9.65E-05	8.46E-05	-12%	8.47E-05	-12%	0%	1.00E-05	965%	846%	847%
NSA9_R13	Residential (Single dwelling)	7.0UE-U3	9.00E-00	0.40E-U0	-1270	0.41 E-UO	-1∠70	U 70	1.00E-00	903%	040%	047 70

Receptor	Receptor	Background	Existing Conditions (2018)	Future No-B	uild (2041)		Future Build (2041)				% of the AAQC	
ID	Туре	Concentration	Annual Average Concentration	Annual Average Concentration	% change from Existing	Annual Average Concentration	% change from Existing Conditions	% change from No- Build	AAQC (μg/m³)	Existing Conditions (2018)	Future No-Build (2041)	Future Build (2041)
NOA0 D44		(µg/m³)	(μg/m³)	(μg/m³)	Conditions	μg/m³		00/	4.005.05			0.400/
NSA9_R14	Residential (Single dwelling)	7.80E-05	9.72E-05 1.19E-04	8.48E-05 9.28E-05	-13%	8.49E-05 9.28E-05	-13%	0%	1.00E-05 1.00E-05	972% 1192%	848%	849%
NSA9_R15 NSA10_R01	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05 7.80E-05	9.86E-05	9.26E-05 8.53E-05	-22% -13%	9.28E-05 8.54E-05	-22% -13%	0% 0%	1.00E-05	986%	928% 853%	928% 854%
NSA10_R01 NSA10_R02	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	1.02E-04	8.65E-05	-15%	8.65E-05	-15%	0%	1.00E-05	1016%	865%	865%
NSA10_R02	Residential (Single dwelling)	7.80E-05	9.86E-05	8.54E-05	-13%	8.54E-05	-13%	0%	1.00E-05	986%	854%	854%
NSA10_R04	Residential (Single dwelling)	7.80E-05	9.68E-05	8.48E-05	-12%	8.48E-05	-12%	0%	1.00E-05	968%	848%	848%
NSA10_R05	Residential (Single dwelling)	7.80E-05	9.62E-05	8.45E-05	-12%	8.45E-05	-12%	0%	1.00E-05	962%	845%	845%
NSA10_R06	Residential (Single dwelling)	7.80E-05	9.59E-05	8.44E-05	-12%	8.44E-05	-12%	0%	1.00E-05	959%	844%	844%
NSA10_R07	Residential (Single dwelling)	7.80E-05	9.58E-05	8.44E-05	-12%	8.44E-05	-12%	0%	1.00E-05	958%	844%	844%
NSA10_R08	Residential (Single dwelling)	7.80E-05	9.56E-05	8.43E-05	-12%	8.43E-05	-12%	0%	1.00E-05	956%	843%	843%
NSA10_R09	Residential (Single dwelling)	7.80E-05	9.58E-05	8.44E-05	-12%	8.44E-05	-12%	0%	1.00E-05	958%	844%	844%
NSA10_R10	Residential (Single dwelling)	7.80E-05	9.58E-05	8.43E-05	-12%	8.44E-05	-12%	0%	1.00E-05	958%	843%	844%
NSA10_R11	Residential (Single dwelling)	7.80E-05	9.58E-05	8.43E-05	-12%	8.44E-05	-12%	0%	1.00E-05	958%	843%	844%
NSA10_R12	Residential (Single dwelling)	7.80E-05	9.59E-05	8.44E-05	-12%	8.44E-05	-12%	0%	1.00E-05	959%	844%	844%
NSA10_R13	Residential (Single dwelling)	7.80E-05	9.59E-05	8.44E-05	-12%	8.44E-05	-12%	0%	1.00E-05	959%	844%	844%
NSA10_R14	Residential (Single dwelling)	7.80E-05	1.25E-04	9.48E-05	-24%	9.48E-05	-24%	0%	1.00E-05	1253%	948%	948%
NSA10_R15	Residential (Single dwelling)	7.80E-05 7.80E-05	1.18E-04 1.77E-04	9.23E-05 1.13E-04	-22% -36%	9.23E-05 1.13E-04	-22% -36%	0% 0%	1.00E-05 1.00E-05	1182% 1771%	923% 1127%	923% 1127%
NSA10_R16 NSA11_R01	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	1.18E-04	9.08E-05	-23%	9.08E-05	-23%	0%	1.00E-05	1176%	908%	908%
NSA11_R01	Residential (Single dwelling)	7.80E-05	1.11E-04	8.82E-05	-20%	8.82E-05	-20%	0%	1.00E-05	1108%	882%	882%
NSA12 R02	Residential (Single dwelling)	7.80E-05	1.10E-04	8.78E-05	-20%	8.78E-05	-20%	0%	1.00E-05	1097%	878%	878%
NSA12_R03	Residential (Single dwelling)	7.80E-05	1.11E-04	8.81E-05	-20%	8.81E-05	-20%	0%	1.00E-05	1105%	881%	881%
NSA12_R04	Residential (Single dwelling)	7.80E-05	1.03E-04	8.58E-05	-17%	8.58E-05	-17%	0%	1.00E-05	1030%	858%	858%
NSA12_R05	Residential (Single dwelling)	7.80E-05	1.03E-04	8.57E-05	-16%	8.57E-05	-16%	0%	1.00E-05	1026%	857%	857%
NSA12_R06	Residential (Single dwelling)	7.80E-05	1.03E-04	8.57E-05	-16%	8.57E-05	-16%	0%	1.00E-05	1026%	857%	857%
NSA12_R07	Residential (Single dwelling)	7.80E-05	1.02E-04	8.55E-05	-16%	8.55E-05	-16%	0%	1.00E-05	1018%	855%	855%
NSA12_R08	Residential (Single dwelling)	7.80E-05	1.41E-04	9.78E-05	-31%	9.78E-05	-31%	0%	1.00E-05	1412%	978%	978%
NSA12_R09	Residential (Single dwelling)	7.80E-05	1.22E-04	9.19E-05	-25%	9.19E-05	-25%	0%	1.00E-05	1223%	919%	919%
NSA12_R10	Residential (Single dwelling)	7.80E-05	1.37E-04	9.64E-05	-29%	9.64E-05	-29%	0%	1.00E-05	1366%	964%	964%
NSA12_R11	Residential (Single dwelling)	7.80E-05	1.09E-04	8.77E-05	-20%	8.77E-05	-20%	0%	1.00E-05	1092%	877%	877%
NSA12_R12	Residential (Single dwelling)	7.80E-05 7.80E-05	1.09E-04 1.08E-04	8.78E-05 8.73E-05	-20% -19%	8.78E-05 8.73E-05	-20% -19%	0% 0%	1.00E-05 1.00E-05	1093% 1076%	878% 873%	878% 873%
NSA12_R13 NSA12_R14	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	1.08E-04 1.08E-04	8.74E-05	-19%	8.74E-05	-19%	0%	1.00E-05	1079%	874%	874%
NSA12_R14 NSA12_R15	Residential (Single dwelling)  Residential (Single dwelling)	7.80E-05	1.07E-04	8.72E-05	-19%	8.72E-05	-19%	0%	1.00E-05	1074%	872%	872%
NSA12 R16	Residential (Single dwelling)	7.80E-05	1.31E-04	9.47E-05	-28%	9.47E-05	-28%	0%	1.00E-05	1313%	947%	947%
NSA12_R17	Residential (Single dwelling)	7.80E-05	1.07E-04	8.72E-05	-19%	8.72E-05	-19%	0%	1.00E-05	1073%	872%	872%
NSA12_R18	Residential (Single dwelling)	7.80E-05	1.07E-04	8.72E-05	-19%	8.72E-05	-19%	0%	1.00E-05	1072%	872%	872%
NSA12_R19	Residential (Townhouse)	7.80E-05	1.22E-04	9.20E-05	-25%	9.20E-05	-25%	0%	1.00E-05	1224%	920%	920%
NSA12_R20	Residential (Townhouse)	7.80E-05	1.58E-04	1.03E-04	-35%	1.03E-04	-35%	0%	1.00E-05	1575%	1029%	1029%
NSA12_R21	Residential (Townhouse)	7.80E-05	1.46E-04	9.94E-05	-32%	9.94E-05	-32%	0%	1.00E-05	1463%	994%	994%
NSA12_R22	Residential (Townhouse)	7.80E-05	1.24E-04	9.26E-05	-26%	9.26E-05	-26%	0%	1.00E-05	1244%	926%	926%
NSA12_R23	Residential (Townhouse)	7.80E-05	1.04E-04	8.63E-05	-17%	8.63E-05	-17%	0%	1.00E-05	1042%	863%	863%
NSA12_R24	Residential (Townhouse)	7.80E-05	1.10E-04	8.81E-05	-20%	8.81E-05	-20%	0%	1.00E-05	1099%	881%	881%

NSA12_R25   Residential (Single dwelling)   7.80E-05   1.19E-04   9.09E-05   -23%   9.09E-05   -23%   0%   1.00E-05   1.10E-05   1.10E-04   9.09E-05   -23%   9.09E-05   -23%   0%   1.00E-05   1.10E-05   1.10E-04   9.09E-05   -23%   9.09E-05   -23%   0%   1.00E-05   1.10E-05   1.10E-04   9.09E-05   -23%   9.09E-05   -21%   9.09E-05	Future No-Build (2041)  187% 909%  137% 893%  124% 889%  127% 890%  201% 914%  327% 954%  520% 1016%  606% 1044%	909% 893% 889% 890% 914% 954%
NSA12_R25   Residential (Single dwelling)   7.80E-05   1.19E-04   9.09E-05   -23%   9.09E-05   -23%   0%   1.00E-05   1.10E-05   1.10E-04   1.00E-05   1.10E-04   1.00E-05   1.10E-04   1.00E-05   1.10E-04   1.00E-05   1.10E-04   1.00E-05   1.10E-05   1.10E-05   1.10E-05   1.10E-04   1.00E-05   1.10E-05   1	187% 909% 137% 893% 124% 889% 127% 890% 201% 914% 327% 954% 520% 1016%	893% 889% 890% 914%
NSA12_R26         Residential (Single dwelling)         7.80E-05         1.14E-04         8.93E-05         -21%         8.93E-05         -21%         0%         1.00E-05         11           NSA12_R27         Residential (Single dwelling)         7.80E-05         1.12E-04         8.89E-05         -21%         8.90E-05         -21%         0%         1.00E-05         11           NSA12_R28         Residential (Single dwelling)         7.80E-05         1.13E-04         8.90E-05         -21%         8.90E-05         -21%         0%         1.00E-05         11           NSA12_R28         Residential (Single dwelling)         7.80E-05         1.20E-04         9.14E-05         -24%         9.14E-05         -24%         0%         1.00E-05         12           NSA12_R30         Residential (Single dwelling)         7.80E-05         1.33E-04         9.54E-05         -28%         9.54E-05         -28%         0%         1.00E-05         13           NSA12_R31         Residential (Single dwelling)         7.80E-05         1.52E-04         1.02E-04         -33%         1.02E-04         -33%         0%         1.00E-05         15           NSA12_R32         Residential (Single dwelling)         7.80E-05         1.05E-04         8.66E-05         -18%         8.66E-0	137%     893%       124%     889%       127%     890%       201%     914%       327%     954%       520%     1016%	893% 889% 890% 914%
NSA12_R27         Residential (Single dwelling)         7.80E-05         1.12E-04         8.89E-05         -21%         0%         1.00E-05         11           NSA12_R28         Residential (Single dwelling)         7.80E-05         1.13E-04         8.90E-05         -21%         0%         1.00E-05         11           NSA12_R29         Residential (Single dwelling)         7.80E-05         1.20E-04         9.14E-05         -24%         9.14E-05         -24%         0%         1.00E-05         12           NSA12_R30         Residential (Single dwelling)         7.80E-05         1.33E-04         9.54E-05         -28%         9.54E-05         -28%         0%         1.00E-05         13           NSA12_R31         Residential (Single dwelling)         7.80E-05         1.52E-04         1.02E-04         -33%         1.02E-04         -33%         0%         1.00E-05         15           NSA12_R32         Residential (Single dwelling)         7.80E-05         1.61E-04         1.04E-04         -35%         1.04E-04         -35%         0%         1.00E-05         16           NSA12_R33         Residential (Single dwelling)         7.80E-05         1.05E-04         8.66E-05         -18%         8.66E-05         -18%         0%         1.00E-05         10	124%     889%       127%     890%       201%     914%       327%     954%       520%     1016%	889% 890% 914%
NSA12_R28         Residential (Single dwelling)         7.80E-05         1.13E-04         8.90E-05         -21%         0%         1.00E-05         11           NSA12_R29         Residential (Single dwelling)         7.80E-05         1.20E-04         9.14E-05         -24%         9.14E-05         -24%         0%         1.00E-05         12           NSA12_R30         Residential (Single dwelling)         7.80E-05         1.33E-04         9.54E-05         -28%         9.54E-05         -28%         0%         1.00E-05         13           NSA12_R31         Residential (Single dwelling)         7.80E-05         1.52E-04         1.02E-04         -33%         1.02E-04         -33%         0%         1.00E-05         15           NSA12_R32         Residential (Single dwelling)         7.80E-05         1.61E-04         1.04E-04         -35%         1.04E-04         -35%         0%         1.00E-05         16           NSA12_R33         Residential (Single dwelling)         7.80E-05         1.05E-04         8.66E-05         -18%         8.66E-05         -18%         0%         1.00E-05         10           NSA12_R34         Residential (Townhouse)         7.80E-05         9.93E-05         8.47E-05         -15%         8.47E-05         -15%         0%	127%     890%       201%     914%       327%     954%       520%     1016%	890% 914%
NSA12_R29         Residential (Single dwelling)         7.80E-05         1.20E-04         9.14E-05         -24%         9.14E-05         -24%         0%         1.00E-05         12           NSA12_R30         Residential (Single dwelling)         7.80E-05         1.33E-04         9.54E-05         -28%         9.54E-05         -28%         0%         1.00E-05         13           NSA12_R31         Residential (Single dwelling)         7.80E-05         1.52E-04         1.02E-04         -33%         1.02E-04         -33%         0%         1.00E-05         15           NSA12_R32         Residential (Single dwelling)         7.80E-05         1.61E-04         1.04E-04         -35%         1.04E-04         -35%         0%         1.00E-05         16           NSA12_R33         Residential (Single dwelling)         7.80E-05         1.05E-04         8.66E-05         -18%         8.66E-05         -18%         0%         1.00E-05         10           NSA12_R34         Residential (Townhouse)         7.80E-05         9.93E-05         8.47E-05         -15%         8.47E-05         -15%         0%         1.00E-05         99	201%     914%       327%     954%       520%     1016%	914%
NSA12_R30         Residential (Single dwelling)         7.80E-05         1.33E-04         9.54E-05         -28%         9.54E-05         -28%         0%         1.00E-05         13           NSA12_R31         Residential (Single dwelling)         7.80E-05         1.52E-04         1.02E-04         -33%         1.02E-04         -33%         0%         1.00E-05         15           NSA12_R32         Residential (Single dwelling)         7.80E-05         1.61E-04         1.04E-04         -35%         1.04E-04         -35%         0%         1.00E-05         16           NSA12_R33         Residential (Single dwelling)         7.80E-05         1.05E-04         8.66E-05         -18%         8.66E-05         -18%         0%         1.00E-05         10           NSA12_R34         Residential (Townhouse)         7.80E-05         9.93E-05         8.47E-05         -15%         8.47E-05         -15%         0%         1.00E-05         99	327% 954% 520% 1016%	
NSA12_R31       Residential (Single dwelling)       7.80E-05       1.52E-04       1.02E-04       -33%       1.02E-04       -33%       0%       1.00E-05       15         NSA12_R32       Residential (Single dwelling)       7.80E-05       1.61E-04       1.04E-04       -35%       1.04E-04       -35%       0%       1.00E-05       16         NSA12_R33       Residential (Single dwelling)       7.80E-05       1.05E-04       8.66E-05       -18%       8.66E-05       -18%       0%       1.00E-05       10         NSA12_R34       Residential (Townhouse)       7.80E-05       9.93E-05       8.47E-05       -15%       8.47E-05       -15%       0%       1.00E-05       99	520% 1016%	954%
NSA12_R32     Residential (Single dwelling)     7.80E-05     1.61E-04     1.04E-04     -35%     1.04E-04     -35%     0%     1.00E-05     16       NSA12_R33     Residential (Single dwelling)     7.80E-05     1.05E-04     8.66E-05     -18%     8.66E-05     -18%     0%     1.00E-05     10       NSA12_R34     Residential (Townhouse)     7.80E-05     9.93E-05     8.47E-05     -15%     8.47E-05     -15%     0%     1.00E-05     99		
NSA12_R33 Residential (Single dwelling) 7.80E-05 1.05E-04 8.66E-05 -18% 8.66E-05 -18% 0% 1.00E-05 10 NSA12_R34 Residential (Townhouse) 7.80E-05 9.93E-05 8.47E-05 -15% 8.47E-05 -15% 0% 1.00E-05 99	606% 1044%	1016%
NSA12_R34 Residential (Townhouse) 7.80E-05 9.93E-05 8.47E-05 -15% 8.47E-05 -15% 0% 1.00E-05 99		1044%
	053% 866%	866%
70505	93% 847%	847%
NSA12_R35 Residential (Townhouse) 7.80E-05 9.98E-05 8.49E-05 -15% 8.49E-05 -15% 0% 1.00E-05 9.98E-05	98% 849%	849%
NSA12_R36 Residential (Townhouse) 7.80E-05 1.00E-04 8.50E-05 -15% 8.50E-05 -15% 0% 1.00E-05 10	002% 850%	850%
NSA12_R37 Residential (Townhouse) 7.80E-05 9.98E-05 8.49E-05 -15% 8.49E-05 -15% 0% 1.00E-05 99	98% 849%	849%
NSA12_R38 Residential (Townhouse) 7.80E-05 1.00E-04 8.51E-05 -15% 8.51E-05 -15% 0% 1.00E-05 10	004% 851%	851%
NSA12_R39 Residential (Townhouse) 7.80E-05 1.01E-04 8.52E-05 -15% 8.52E-05 -15% 0% 1.00E-05 10	006% 852%	852%
NSA12_R40 Residential (Single dwelling) 7.80E-05 9.68E-05 8.40E-05 -13% 8.40E-05 -13% 0% 1.00E-05 96	968% 840%	840%
NSA12_R41 Residential (Single dwelling) 7.80E-05 1.01E-04 8.54E-05 -16% 8.54E-05 -16% 0% 1.00E-05 1.00E-05	014% 854%	854%
NSA12_R42 Residential (Single dwelling) 7.80E-05 1.02E-04 8.55E-05 -16% 8.55E-05 -16% 0% 1.00E-05 1.00E-05	016% 855%	855%
NSA12_R43 Residential (Single dwelling) 7.80E-05 1.01E-04 8.54E-05 -16% 8.54E-05 -16% 0% 1.00E-05 1.00E-05	012% 854%	854%
NSA12_R44 Residential (Single dwelling) 7.80E-05 1.01E-04 8.53E-05 -16% 8.53E-05 -16% 0% 1.00E-05 1.00E-05	010% 853%	853%
NSA12_R45 Residential (Single dwelling) 7.80E-05 1.01E-04 8.53E-05 -15% 8.53E-05 -15% 0% 1.00E-05 1.00E-05	008% 853%	853%
NSA12_R46 Residential (Single dwelling) 7.80E-05 9.99E-05 8.50E-05 -15% 8.50E-05 -15% 0% 1.00E-05 99	999% 850%	850%
NSA12_R47 Residential (Single dwelling) 7.80E-05 1.00E-04 8.51E-05 -15% 8.51E-05 -15% 0% 1.00E-05 10	004% 851%	851%
NSA12_R48 Residential (Single dwelling) 7.80E-05 1.01E-04 8.53E-05 -15% 8.53E-05 -15% 0% 1.00E-05 10	009% 853%	853%
NSA12_R49 Residential (Townhouse) 7.80E-05 1.01E-04 8.52E-05 -15% 8.52E-05 -15% 0% 1.00E-05 10	005% 852%	852%
NSA12_R50 Residential (Single dwelling) 7.80E-05 1.60E-04 1.04E-04 -35% 1.04E-04 -35% 0% 1.00E-05 1.50E-05	597% 1041%	1041%
NSA12_R51 Residential (Single dwelling) 7.80E-05 1.62E-04 1.05E-04 -35% 1.05E-04 -35% 0% 1.00E-05 16	617% 1047%	1047%
NSA12_R52 Residential (Single dwelling) 7.80E-05 1.54E-04 1.02E-04 -34% 1.02E-04 -34% 0% 1.00E-05 1.54E-04 1.02E-04 1.	542% 1023%	1023%
NSA12_R53 Residential (Single dwelling) 7.80E-05 1.64E-04 1.05E-04 -36% 1.05E-04 -36% 0% 1.00E-05 16	635% 1053%	1053%
NSA12_R54 Residential (Single dwelling) 7.80E-05 1.63E-04 1.05E-04 -35% 1.05E-04 -35% 0% 1.00E-05 16	631% 1052%	1052%
NSA12_R55 Residential (Single dwelling) 7.80E-05 1.57E-04 1.03E-04 -34% 1.03E-04 -34% 0% 1.00E-05 1.57E-04	565% 1031%	1031%
NSA12_R56 Residential (Single dwelling) 7.80E-05 1.63E-04 1.05E-04 -35% 1.05E-04 -35% 0% 1.00E-05 16	631% 1052%	1052%
	658% 1060%	1060%
	666% 1063%	1063%
	671% 1065%	1065%
	672% 1065%	1065%
	493% 1009%	1009%
	014% 855%	855%
	007% 852%	852%
	015% 855%	855%
NSA12_R65 Residential (Single dwelling) 7.80E-05 1.02E-04 8.55E-05 -16% 8.55E-05 -16% 0% 1.00E-05 10		855%

Table B-24 Maximum Concentrations for Existing Condition Scenario

Contaminant	Averaging period	Threshold (AAQC or CAAQS)	Background concentration (µg/m³)	Highest concentration* (µg/m³)	Julian Day, Hour	Location by Receptor	Location (UTM km)	2 <sup>nd</sup> Highest concentration* (μg/m <sup>3</sup> )	Julian Day, Hour	Location by Receptor	Location (UTM km)	3 <sup>rd</sup> Highest concentration* (µg/m³)	Julian Day, Hour	Location by Receptor	Location (UTM km)
CO	1-hr	36,200	419	2,825	336,9	2831	597.7,4828.2	2,737	348,08	583	596.0,4826.6	2,589	272,09	248	597.5,4828.2
СО	8-hr	15,700	403	1,127	278,14	583	596.0,4826.6	982	165,23	1080	595.9,4826.6	961	52,18	285	597.0,4827.8
NO <sub>2</sub> <sup>(5)</sup>	1-hr	83	37	94.40	n/a	246	597.2, 4828.1	93.65	n/a	285	597.0, 4827.8	90.23	n/a	286	597.1, 4827.8
NO <sub>2</sub>	24-hr	200	31	74.374	278	583	596.0,4826.6	67.4	52	285	597.0, 4827.8	66.40	52	283	597.2,4827.9
NO <sub>2</sub>	Annual	24	17	28.47	n/a	246	597.2, 4828.1	26.61	n/a	285	597.0, 4827.8	26.45	n/a	245	597.4, 4828.2
SO <sub>2</sub> (2)	1-hr	179	6	6.38	n/a	285	597.0, 4827.8	6.38	n/a	246	597.2,4828.1	6.37	n/a	283	597.2,4827.9
SO <sub>2</sub>	24-hr	275	5	5.235	278	583	596.0,4826.6	5.198	52	285	597.0, 4827.8	5.193	52	283	597.2,4827.9
SO <sub>2</sub>	Annual	10	3	3.062	n/a	246	597.2, 4828.1	3.052	n/a	285	597.0, 4827.8	3.051	n/a	251	597.3,4828.2
Acetaldehyde	24-hr	500	2	1.868	278	583	596.0,4826.6	1.851	52	285	597.0, 4827.8	1.849	52	283	597.2,4827.9
Benzene	24-hr	2.3	0.8	0.982	278	583	596.0,4826.6	0.956	52	285	597.0, 4827.8	0.952	52	283	597.2,4827.9
Benzene	Annual	0.45	0.53	0.573	n/a	246	597.2, 4828.1	0.566	n/a	285	597.0, 4827.8	0.565	n/a	251	597.3,4828.2
Acrolein (1)	1-hr	4.5	0.2	0.2746	336,9	2831	597.7,4828.2	0.2689	348,8	583	596.0,4826.6	0.26459	272,9	248	597.5,4828.2
Acrolein	24-hr	0.4	0.1	0.08460	278	583	596.0,4826.6	0.08235	52	285	597.0, 4827.8	0.08203	52	283	597.2,4827.9
1-3 Butadiene	24-hr	10	0.08	0.10329	278	583	596.0,4826.6	0.09987	52	285	597.0, 4827.8	0.09940	52	283	597.2,4827.9
1-3 Butadiene	Annual	2	0.05	0.05365	n/a	246	597.2, 4828.1	0.05275	n/a	285	597.0, 4827.8	0.05268	n/a	245	597.4, 4828.2
Formaldehyde	24-hr	65	3	3.511	278	583	596.0,4826.6	3.478	52	285	597.0, 4827.8	3.474	52	283	597.2,4827.9
Benzo[a]pyrene	24-hr	5.00E-05	1.20E-04	6.90E-04	278	583	596.0,4826.6	5.96E-04	52	285	597.0, 4827.8	5.84E-04	52	283	597.2,4827.9
Benzo[a]pyrene	Annual	1.00E-05	7.80E-05	2.29E-03	n/a	246	597.2, 4828.1	2.05E-04	n/a	285	597.0, 4827.8	2.03E-04	n/a	245	597.4, 4828.2
PM <sub>2.5</sub> <sup>(3)</sup>	24-hr	27	13.9	15.71	n/a	246	597.2, 4828.1	15.57	n/a	245	597.4, 4828.2	15.53	n/a	382	595.9, 4827.3
PM <sub>2.5</sub> <sup>(4)</sup>	Annual	8.8	7.8	9.29	n/a	246	597.2, 4828.1	9.17	n/a	285	597.0, 4827.8	9.15	n/a	245	597.4, 4828.2
PM <sub>10</sub>	24-hr	50	27.8	36.0	278	583	596.0,4826.6	34.6	52	285	597.0, 4827.8	34.3	52	283	597.2,4827.9
TSP	24-hr	120	46.3	72.80	278	583	596.0,4826.6	68.43	52	285	597.0, 4827.8	67.23	52	283	597.2,4827.9
TSP	Annual	60	26.0	32.38	n/a	246	597.2, 4828.1	31.33	n/a	285	597.0, 4827.8	31.11	n/a	245	597.4, 4828.2

<sup>\*</sup> The concentration includes background plus the model predicted incremental concentration from the ETR 407

<sup>(1)</sup> The 1-hr averaging period Acrolein background concentration calculated from 24-hour Acrolein background concentration using the averaging period conversion factor equation specified in Ontario's Air Dispersion Modelling Guidelines (MOECC 2016b), since 1-hour concentrations are unavailable.

<sup>(2) 1</sup>hr SO2 concentrations are based on a three-year average of the 99th Percentile Concentrations

<sup>(3) 24</sup>hr PM2.5 concentrations are based on a three-year average of the 98th Percentile Concentrations

<sup>(4)</sup> Annual PM2.5 concentrations are based on a three-year average annual concentrations. All exceedances occur within the 401 and 407 right-of-way. (5) 1hr NO2 concentrations are based on a three-year average of the 98th Percentile Concentrations

Table B-25 Maximum Concentrations for Future No-Build Scenario

Contaminant	Averaging period	Threshold (AAQC or CAAQS)	Background concentration (µg/m³)	Highest concentration* (µg/m³)	Julian Day, Hour	Location by Receptor	Location (UTM km)	2 <sup>nd</sup> Highest concentration* (µg/m³)	Julian Day, Hour	Location by Receptor	Location (UTM km)	3 <sup>rd</sup> Highest concentration* (µg/m³)	Julian Day, Hour	Location by Receptor	Location (UTM km)
CO	1-hr	36,200	419	1,882	336,9	2,831	597.7, 4828.2	1,797	344,8	583	596.0, 4826.6	1,770	272,9	248	597.5, 4828.2
CO	8-hr	15,700	403	835	278,14	583	596.0, 4826.6	755	165,23	1080	595.9 , 4826.6	745	52,18	285	597.0, 4827.8
NO <sub>2</sub> <sup>(5)</sup>	1-hr	83	37	56.44	n/a	246	597.2, 4828.1	55.48	n/a	285	597.0, 4827.8	54.93	n/a	245	597.4, 4828.2
NO <sub>2</sub>	24-hr	200	31	44.618	278	583	596.0, 4826.6	42.606	52	285	597.0, 4827.8	42.173	52	283	597.2, 4827.9
NO <sub>2</sub> <sup>(5)</sup>	Annual	24	17	20.56	n/a	246	597.2, 4828.1	19.96	n/a	285	597.0, 4827.8	19.87	n/a	245	597.4, 4828.2
SO <sub>2</sub> (2)	1-hr	179	6	6.52	n/a	246	597.2, 4828.1	6.51	n/a	285	597.0, 4827.8	6.48	n/a	283	597.2, 4827.9
SO <sub>2</sub>	24-hr	275	5	5.308	278	583	596.0, 4826.6	5.266	52	285	597.0, 4827.8	5.257	52	283	597.2, 4827.9
SO <sub>2</sub>	Annual	10	3	3.083	n/a	246	597.2, 4828.1	3.07	n/a	285	597.0, 4827.8	3.059	n/a	245	597.4, 4828.2
Acetaldehyde	24-hr	500	2	1.791	278	583	596.0, 4826.6	1.786	52	285	597.0, 4827.8	1.785	52	283	597.2, 4827.9
Benzene	24-hr	2.3	0.8	0.865	278	583	596.0, 4826.6	0.858	52	285	597.0, 4827.8	0.857	52	283	597.2, 4827.9
Benzene	Annual	0.45	0.53	0.542	n/a	246	597.2, 4828.1	0.54	n/a	285	597.0, 4827.8	0.539	n/a	283	597.2, 4827.9
Acrolein (1)	1-hr	4.5	0.2	0.2005	336,9	2831	597.7, 4828.2	0.19852	348,8	583	596.0, 4826.6	0.19820	272,9	248	597.5, 4828.2
Acrolein	24-hr	0.4	0.1	0.07424	278	583	596.0, 4826.6	0.07363	52	285	597.0, 4827.8	0.07351	52	283	597.2, 4827.9
1-3 Butadiene	24-hr	10	0.08	0.08286	278	583	596.0, 4826.6	0.08245	52	285	597.0, 4827.8	0.08237	52	283	597.2, 4827.9
1-3 Butadiene	Annual	2	0.05	0.04876	n/a	246	597.2, 4828.1	0.04864	n/a	285	597.0, 4827.8	0.04863	n/a	245	597.4, 4828.2
Formaldehyde	24-hr	65	3	3.504	278	583	596.0, 4826.6	3.475	52	285	597.0, 4827.8	3.469	52	283	597.2, 4827.9
Benzo[a]pyrene	24-hr	5.00E-05	1.20E-04	3.21E-04	278	583	596.0, 4826.6	2.93E-04	52	285	597.0, 4827.8	2.87E-04	52	283	597.2, 4827.9
Benzo[a]pyrene	Annual	1.00E-05	7.80E-05	1.32E-04	n/a	246	597.2, 4828.1	1.24E-04	n/a	285	597.0, 4827.8	1.23E-04	n/a	245	597.4, 4828.2
PM <sub>2.5</sub> <sup>(3)</sup>	24-hr	27	13.9	15.882	n/a	246	597.2, 4828.1	15.74	n/a	NSA10_R11	597.9, 4827.2	15.701	n/a	245	597.4, 4828.2
PM <sub>2.5</sub> <sup>(4)</sup>	Annual	8.8	7.8	9.34	n/a	246	597.2, 4828.1	9.217	n/a	285	597.0, 4827.8	9.19	n/a	245	597.4, 4828.2
PM <sub>10</sub>	24-hr	50	27.8	40.4	278	583	596.0, 4826.6	38.4	52	285	597.0, 4827.8	38.0	52	283	597.2, 4827.9
TSP	24-hr	120	46.3	93.23	278	583	596.0, 4826.6	87.03	52	285	597.0, 4827.8	84.81	52	283	597.2, 4827.9
TSP	Annual	60	26.0	38.50	n/a	246	597.2, 4828.1	36.53	n/a	285	597.0, 4827.8	36.22	n/a	245	597.4, 4828.2

Notes:

<sup>\*</sup> The concentration includes background plus the model predicted incremental concentration from the ETR 407

<sup>(1)</sup> The 1-hr averaging period Acrolein background concentration calculated from 24-hour Acrolein background concentration using the averaging period conversion factor equation specified in Ontario's Air Dispersion Modelling Guidelines (MOECC 2016b), since 1-hour concentrations are used to the concentration of the concentra

<sup>(2) 1</sup>hr SO2 concentrations are based on a three-year average of the 99th Percentile Concentrations

<sup>(3) 24</sup>hr PM2.5 cd

<sup>(4)</sup> Annual PM2.5 concentrations are based on a three-year average annual concentrations. All exceedances occur within the 401 and 407 right-of-way.

<sup>(5) 1</sup>hr NO2 concentrations are based on a three-year average of the 98th Percentile Concentrations

<sup>\*</sup> The concentration includes background plus the model predicted incremental concentration from the ETR 407

Table B-26 Maximum Concentrations for Future Build Scenario

Contaminant	Averaging period	Threshold (AAQC or CAAQS)	Background concentration (µg/m³)	Highest concentration* (µg/m³)	
CO	1-hr	36,200	419	1892	
CO	8-hr	15,700	403	770	
NO <sub>2</sub> <sup>(5)</sup>	1-hr	83	37	53.5	
NO <sub>2</sub>	24-hr	200	31	42.4	
NO <sub>2</sub> <sup>(5)</sup>	Annual	24	17	19.05	
SO <sub>2</sub> (2)	1-hr	179	6	6.47	
SO <sub>2</sub>	24-hr	275	5	5.265	
SO <sub>2</sub>	Annual	10	3	3.052	
Acetaldehyde	24-hr	500	2	1.786	
Benzene	24-hr	2.3	0.8	0.859	
Benzene	Annual	0.45	0.53	0.538	
Acrolein (1)	1-hr	4.5	0.2	0.1008	
Acrolein	24-hr	0.4	0.1	0.07366	
1-3 Butadiene	24-hr	10	0.08	0.08447	
1-3 Butadiene	Annual	2	0.05	0.04847	
Formaldehyde	24-hr	65	3	3.447	
Benzo[a]pyrene	24-hr	5.00E-05	1.20E-04	2.93E-04	
Benzo[a]pyrene	Annual	1.00E-05	7.80E-05	0.0001127	
PM <sub>2.5</sub> (3)	24-hr	27	13.9	16.8	
PM <sub>2.5</sub> <sup>(4)</sup>	Annual	8.8	7.8	8.37	
PM <sub>10</sub>	24-hr	50	27.8	38.77	
TSP	24-hr	120	46.3	86.52	
TSP	Annual	60	26.0	33.70	

#### Notes:

<sup>\*</sup> The concentration includes background plus the model predicted incremental concentration from the ETR 407

<sup>(1)</sup> The 1-hr averaging period Acrolein background concentration calculated from 24-hour Acrolein background c

<sup>(2) 1</sup>hr SO2 concentrations are based on a three-year average of the 99th Percentile Concentrations

<sup>(3) 24</sup>hr PM2.5 concentrations are based on a three-year average of the 98th Percentile Concentrations

<sup>(4)</sup> Annual PM2.5 concentrations are based on a three-year average annual concentrations

<sup>(5) 1</sup>hr NO2 concentrations are based on a three-year average of the 98th Percentile Concentrations

Julian Day, Hour	Location by Receptor	Location (UTM km)	2 <sup>nd</sup> Highest concentration* (µg/m³)	Julian Day, Hour	Location by Receptor
313, 9	739	597.7, 4828.2	1572	272, 9	164
278,14	279	596.0, 4826.6	768	165,23	868
n/a	81	596.6, 4827.9	53.46	n/a	80
278	279	596.0, 4826.6	40.36	181	278
n/a	81	596.6, 4827.9	19.04	n/a	80
n/a	278	595.9, 4826.8	6.45	n/a	81
278	279	596.0, 4826.6	5.223	181	278
n/a	80	596.7, 4828.0	3.051	n/a	78
278	279	596.0, 4826.6	1.782	165	868
278	279	596.0, 4826.6	0.852	165	868
n/a	80	596.7, 4828.0	0.537	n/a	283
313, 9	739	597.7, 4828.2	0.09416	272, 9	164
278	279	596.0, 4826.6	0.07301	181	278
278	279	596.0, 4826.6	0.08402	181	278
n/a	80	596.7, 4828.0	0.04846	n/a	78
278	279	596.0, 4826.6	3.476	181	278
278	279	596.0, 4826.6	2.67E-04	181	278
n/a	81	596.6, 4827.9	0.0001126	n/a	80
278	279	596.0, 4826.6	16.29	181	278
n/a	81	596.6, 4827.9	8.359	n/a	80
278	279	596.0, 4826.6	37.08	165	278
278	279	596.0, 4826.6	83.13	165	278
n/a	81	596.6, 4827.9	33.57	n/a	80

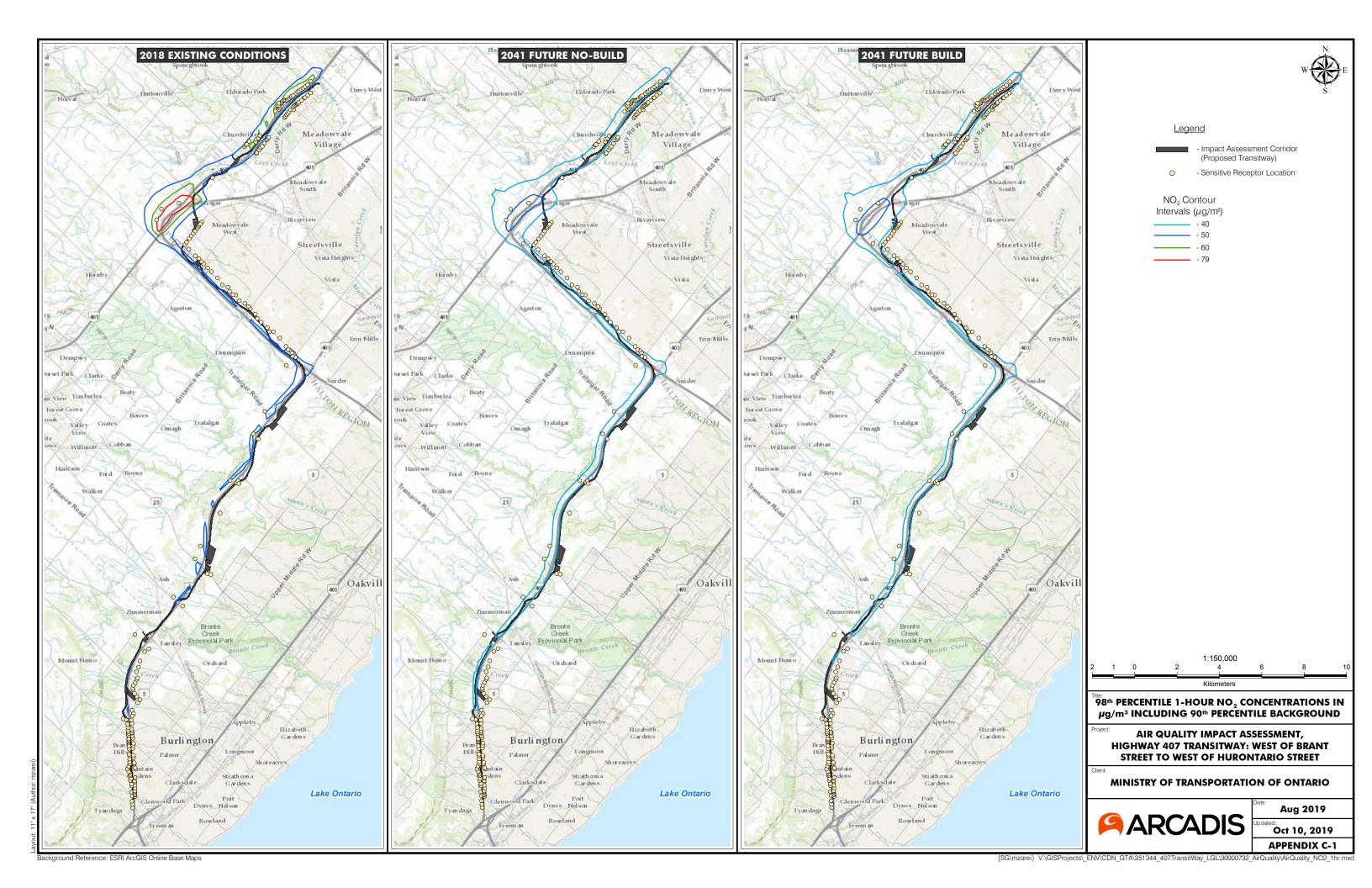
## And Transitway

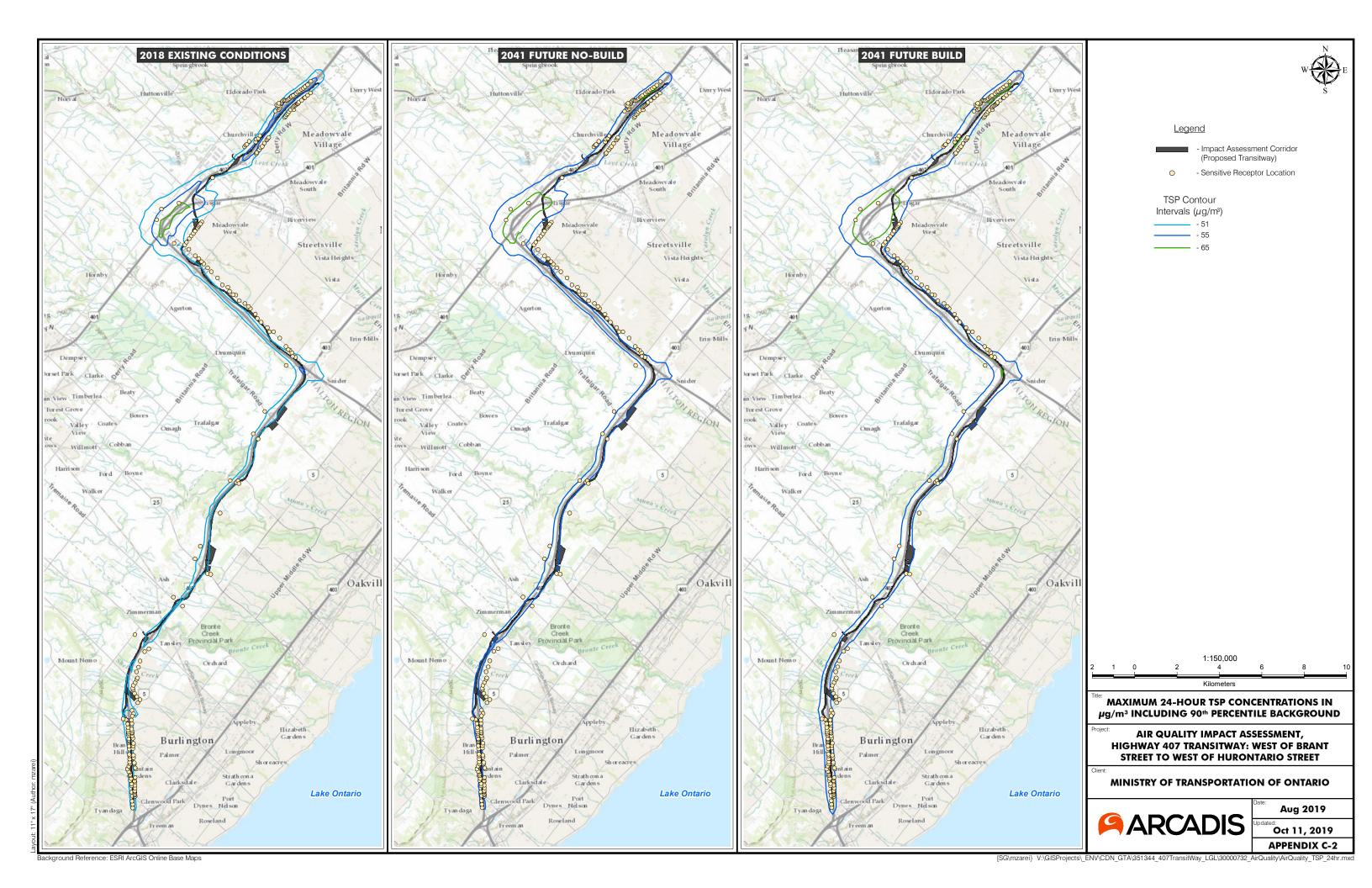
oncentration using the averaging period conversion factor equation specified in Ontario's Air Dispersion Modelling

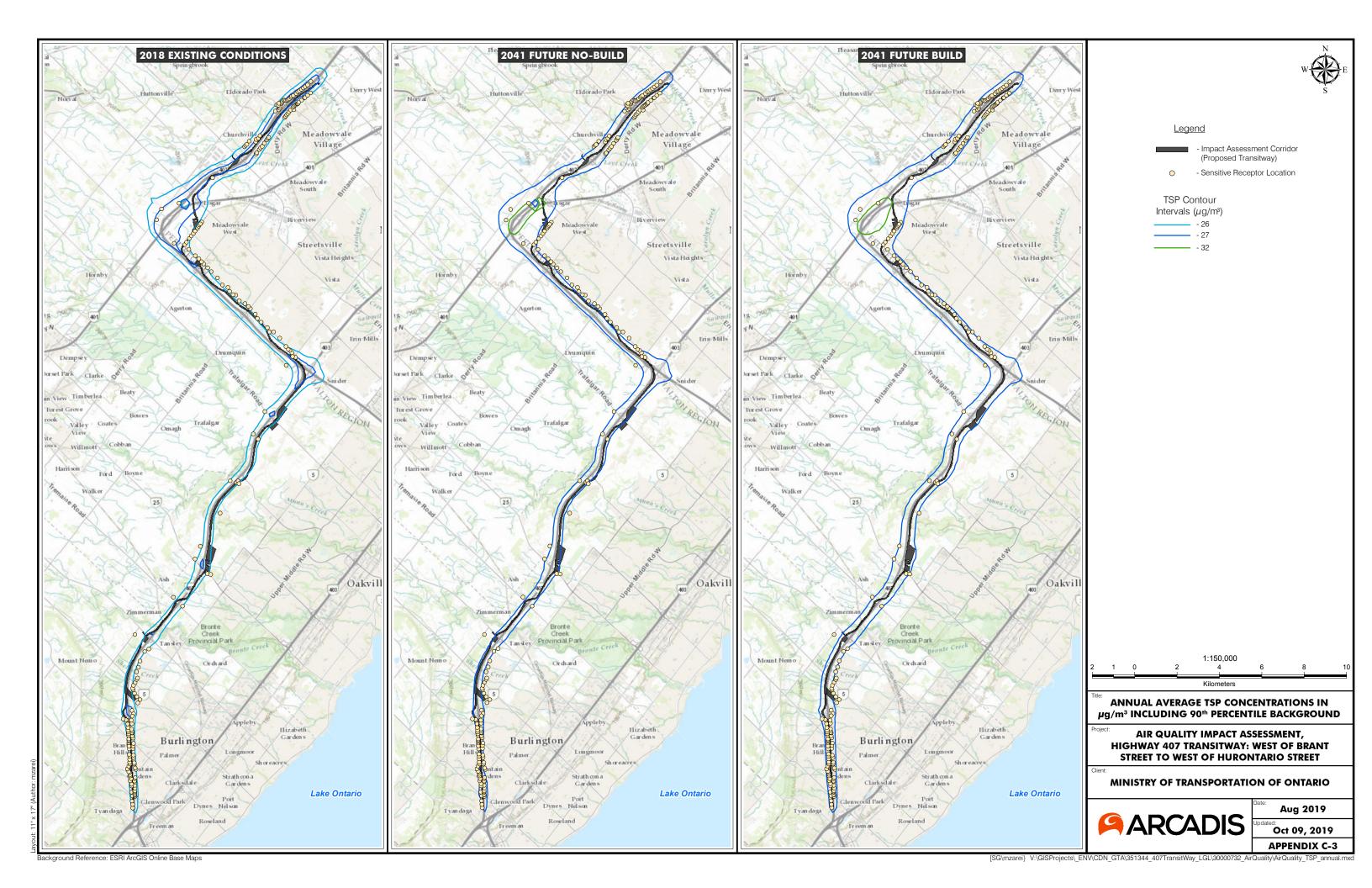
Location (UTM km)	3 <sup>rd</sup> Highest concentration* (µg/m³)	Julian Day, Hour	Location by Receptor	Location (UTM km)
597.6, 4828.3	1493	253, 8	868	595.9 , 4826.6
595.9 , 4826.6	664.103	165,20	278	595.9, 4826.8
596.7, 4828.0	53.34	n/a	278	595.9, 4826.8
595.9, 4826.8	40.29	165	868	595.9 , 4826.6
596.7, 4828.0	19.03	n/a	NSA10_R16	596.9, 4828.1
596.6, 4827.9	6.44	n/a	80	596.7, 4828.0
595.9, 4826.8	5.221	165	868	595.9 , 4826.6
596.9, 4828.2	3.047	n/a	283	596.4, 4827.8
595.9, 4826.6	1.781	69	80	596.7, 4828.0
595.9, 4826.6	0.851	69	80	596.7, 4828.0
596.94 4827.8	0.536	n/a	288	595.9, 4827.2
597.6, 4828.3	0.09239	253,8	868	595.9 , 4826.6
595.9, 4826.8	0.07298	165	868	595.9 , 4826.6
595.9, 4826.8	0.08401	165	868	595.9 , 4826.6
596.9, 4828.2	0.04843	n/a	283	596.4, 4827.8
595.9, 4826.8	3.445	165	868	595.9 , 4826.6
595.9, 4826.8	2.65E-04	165	868	595.9 , 4826.6
596.7, 4828.0	0.0001125	n/a	79	596.8 , 4828.1
595.9, 4826.8	16.25	165	868	595.9 , 4826.6
596.7, 4828.0	8.358	n/a	NSA10_R15	596.0, 4827.9
595.9, 4826.8	36.86	165	868	595.9 , 4826.6
595.9, 4826.8	80.65	165	868	595.9 , 4826.6
596.7, 4828.0	33.55	n/a	NSA10_R16	596.9, 4828.1

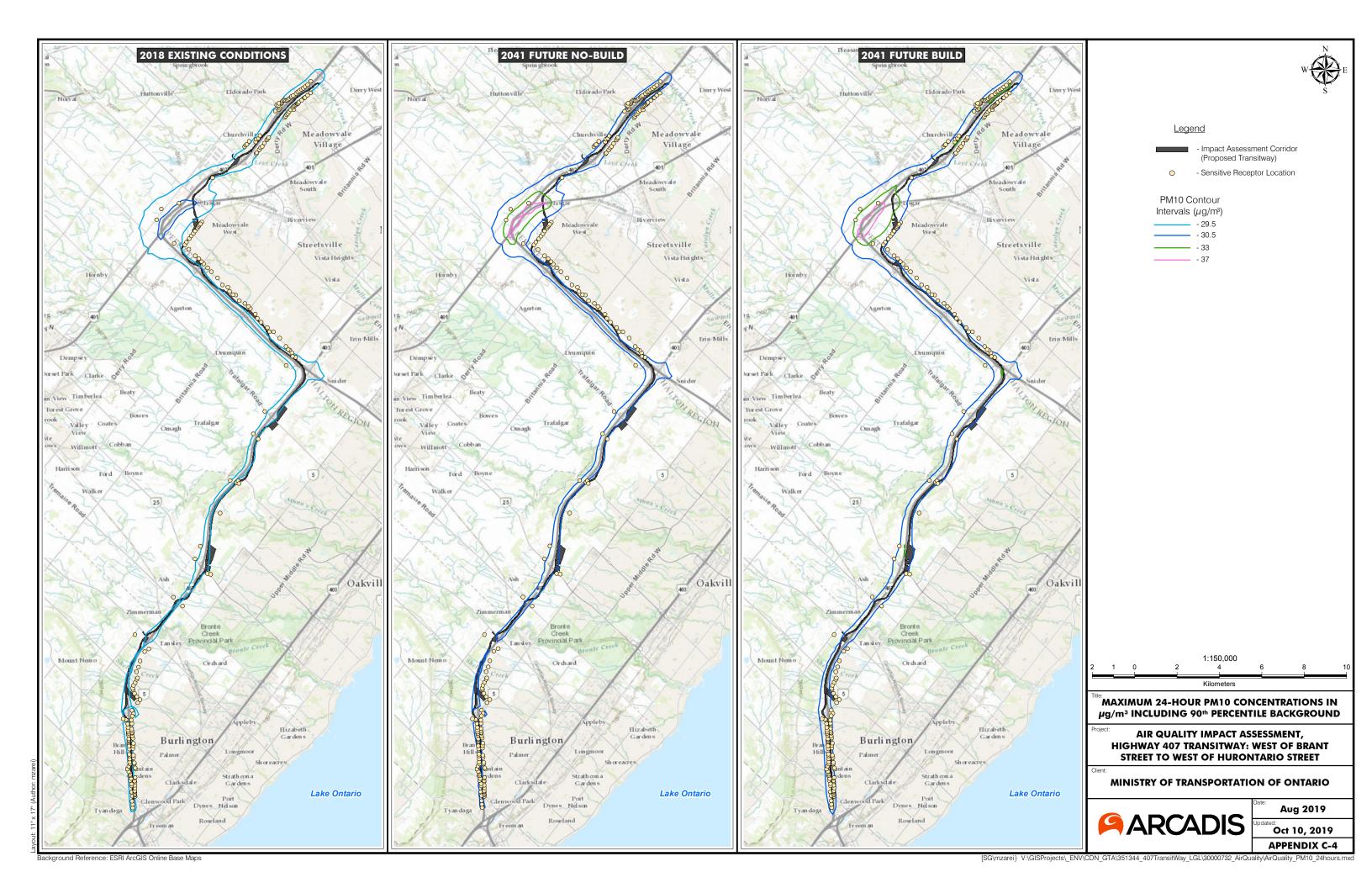
Guidelines (MOECC 2016b), since 1-hour concentrations are unavailable.

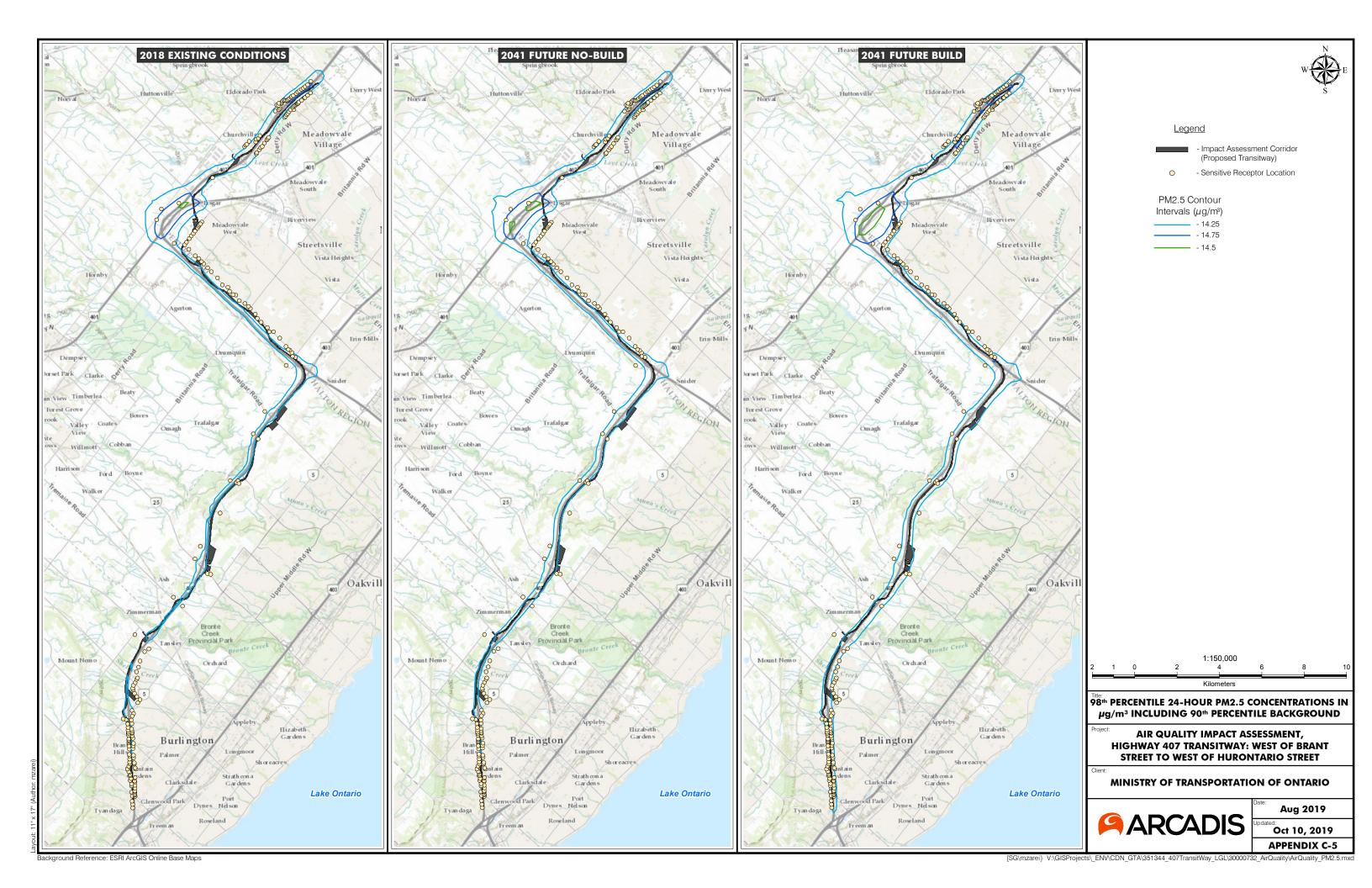
# APPENDIX C: CAL3QHCR MODEL RESULTS FIGURES

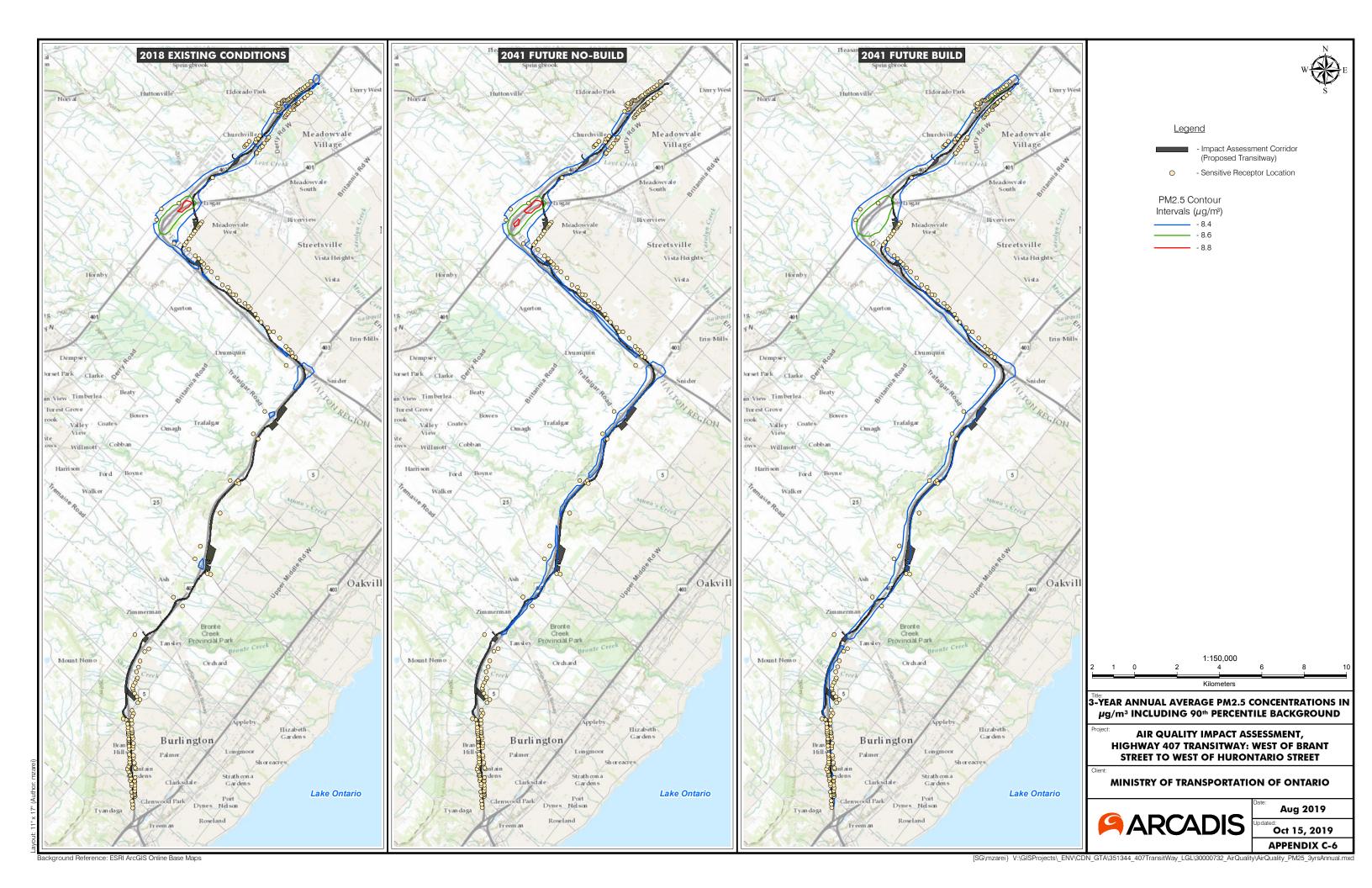


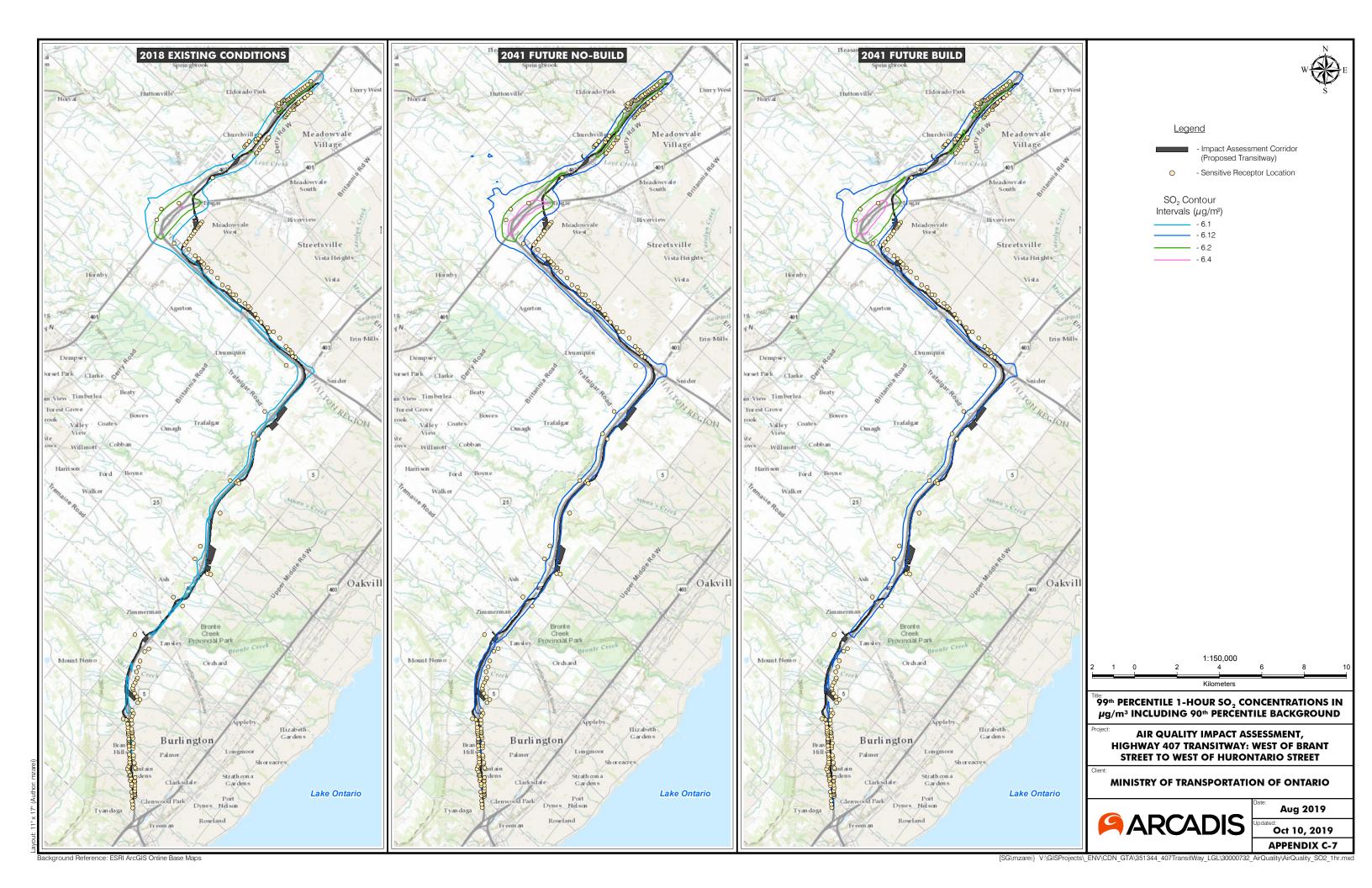


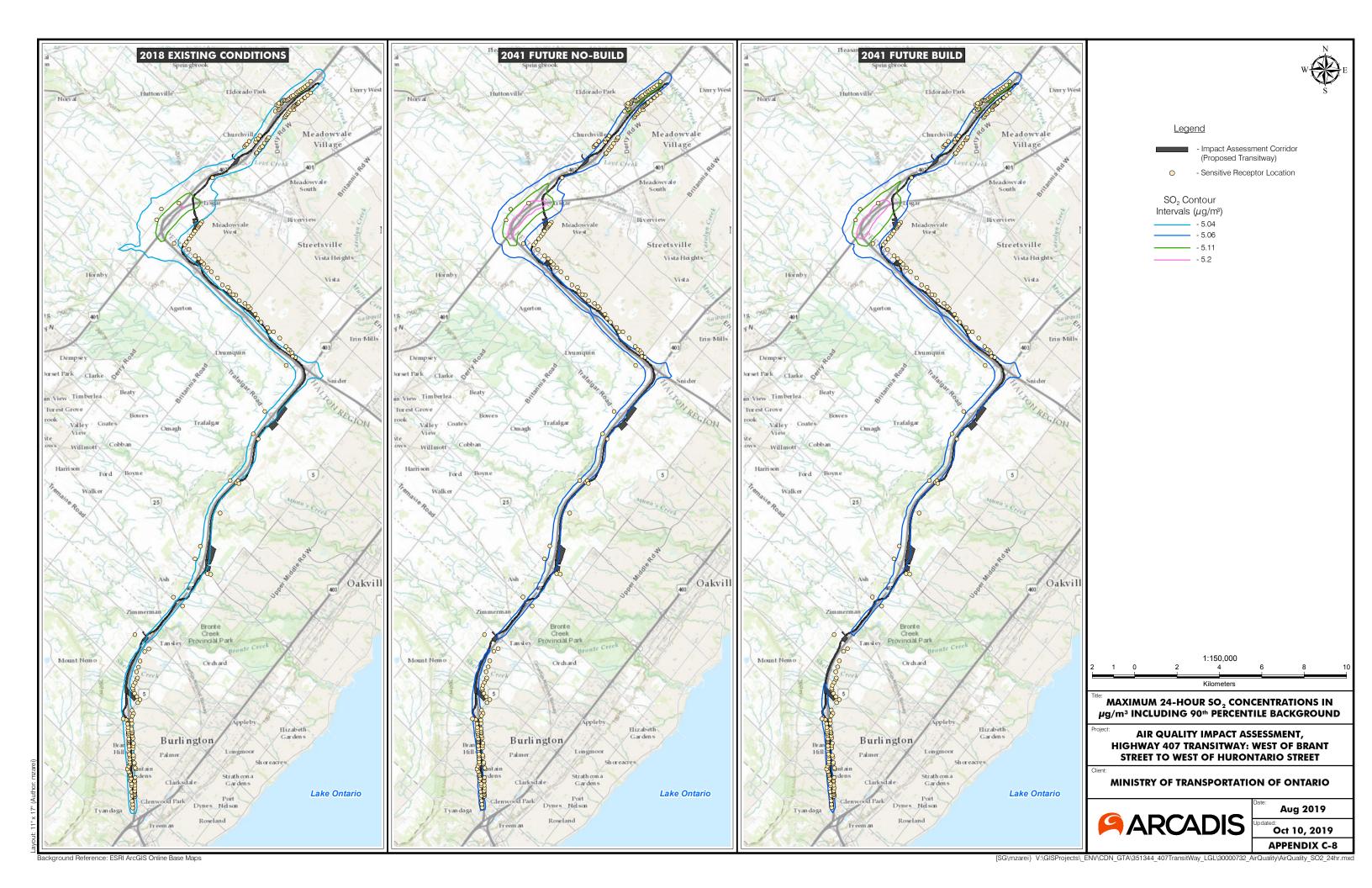


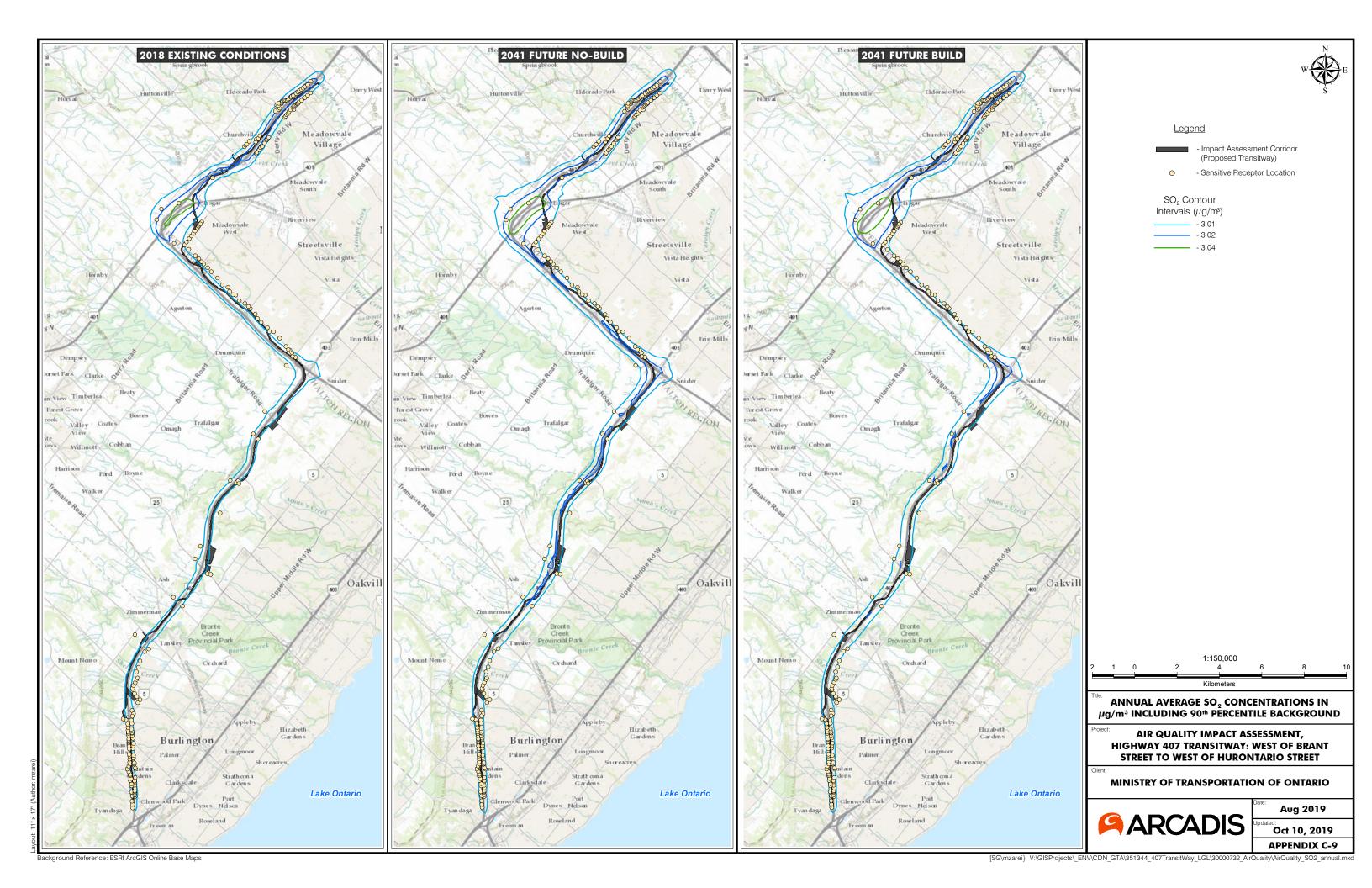


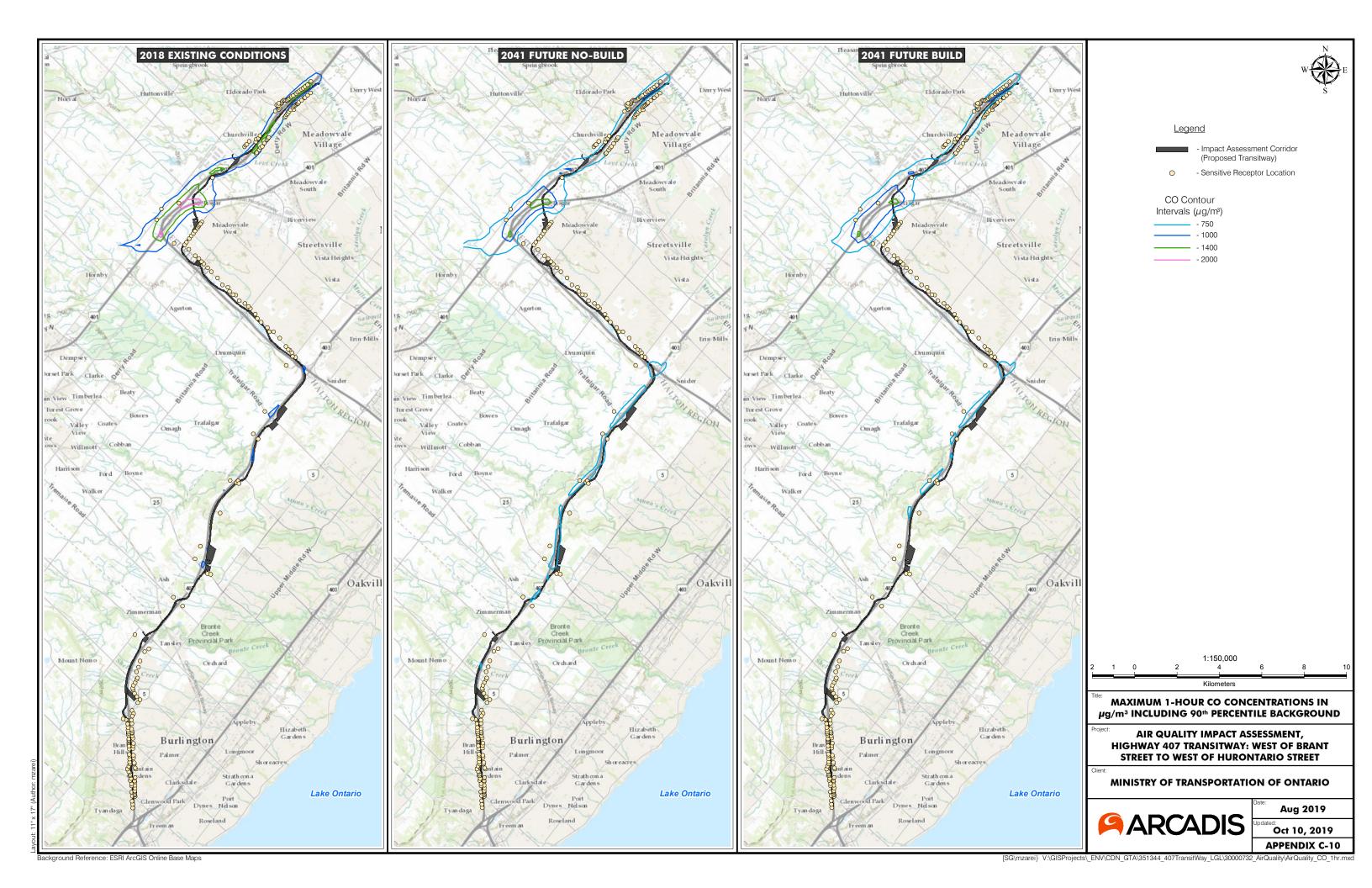


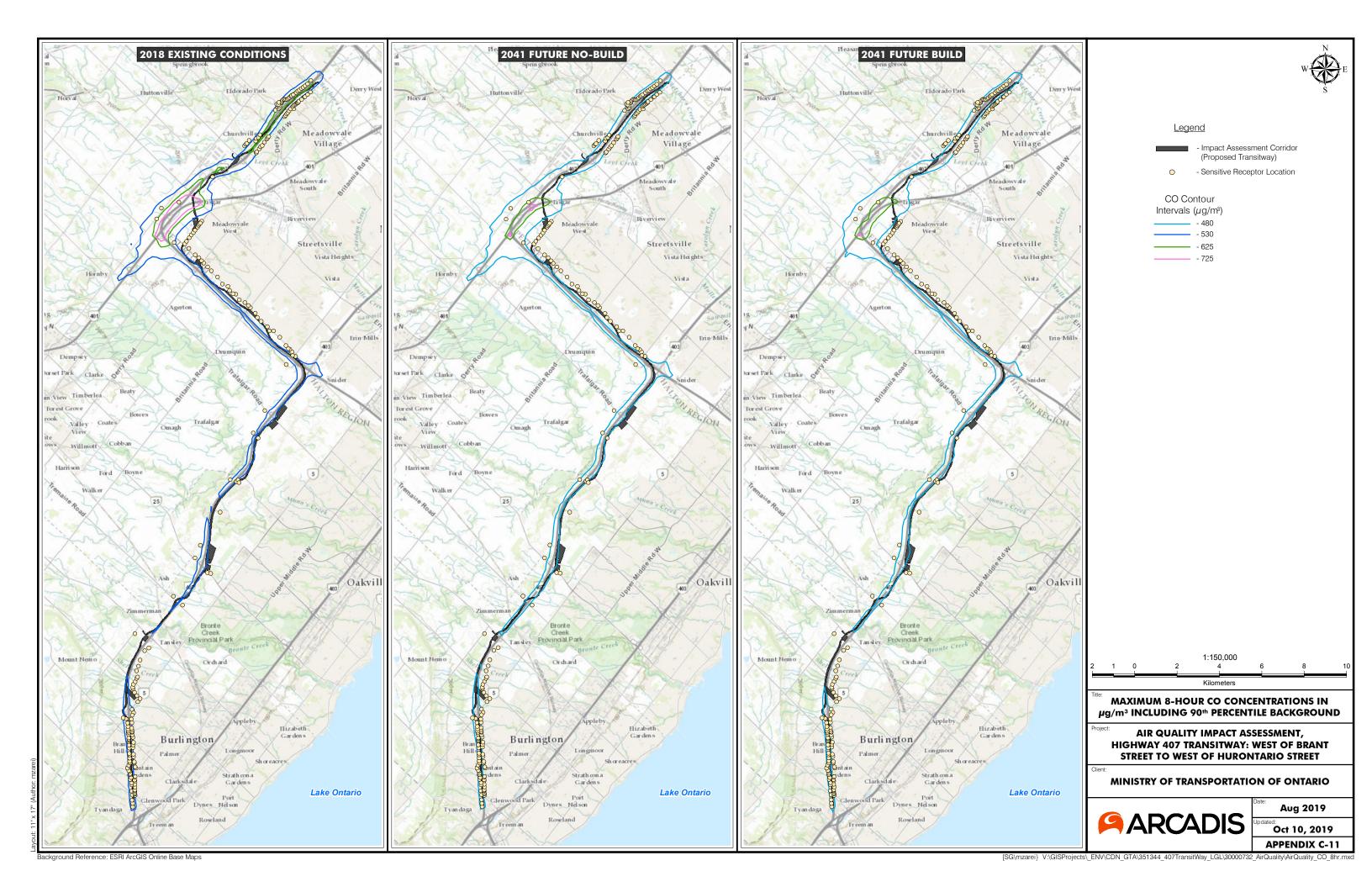


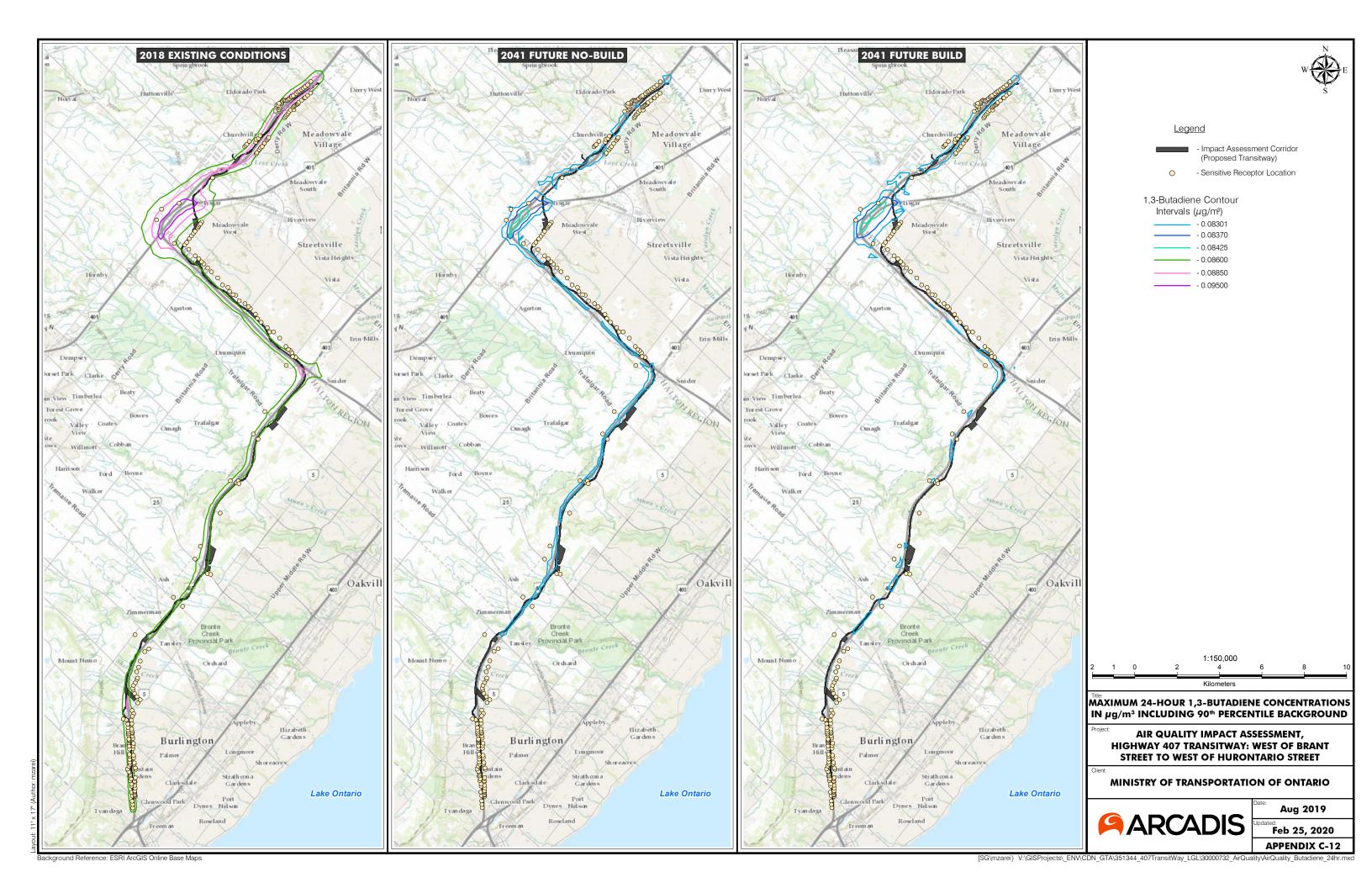


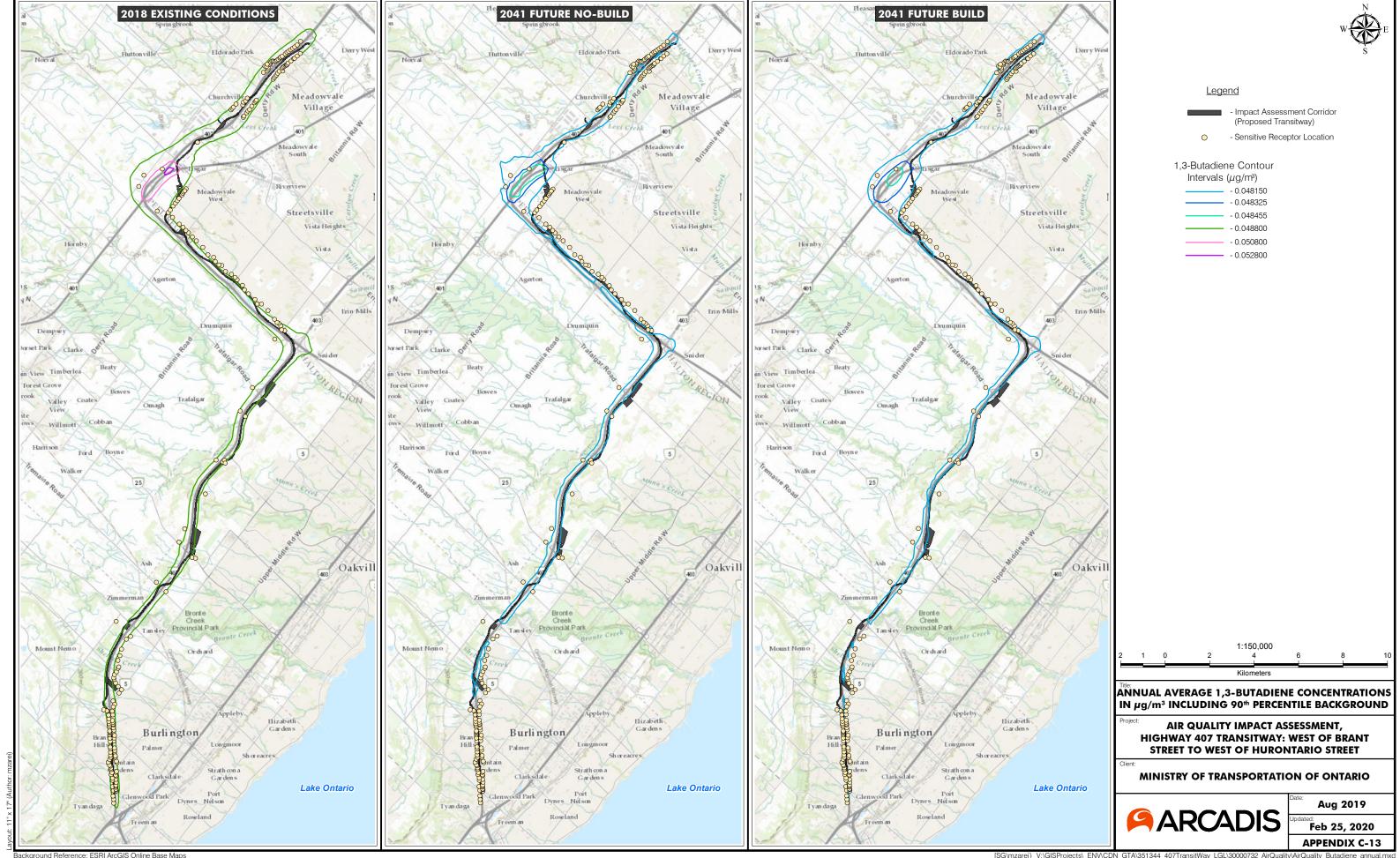


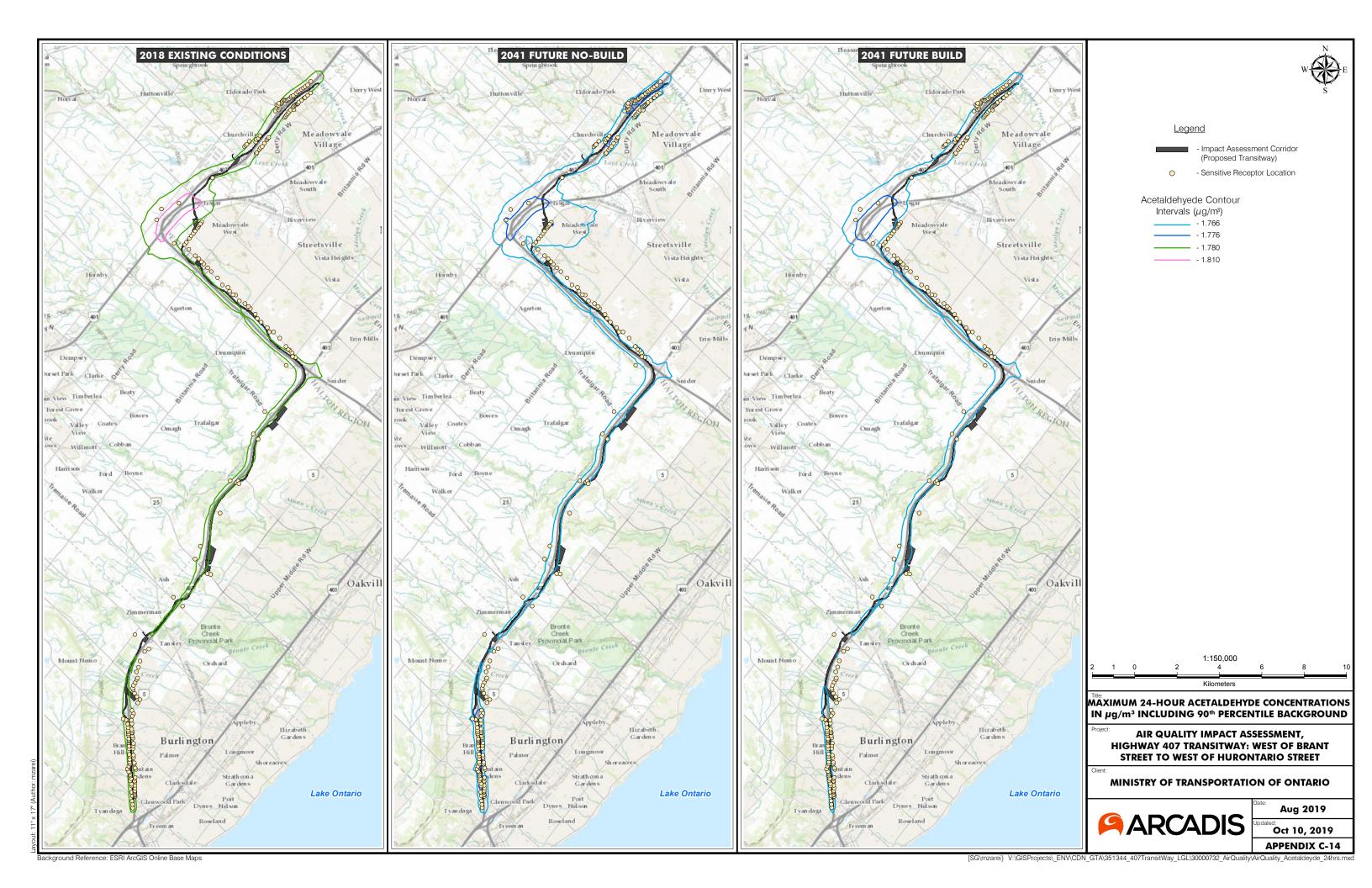


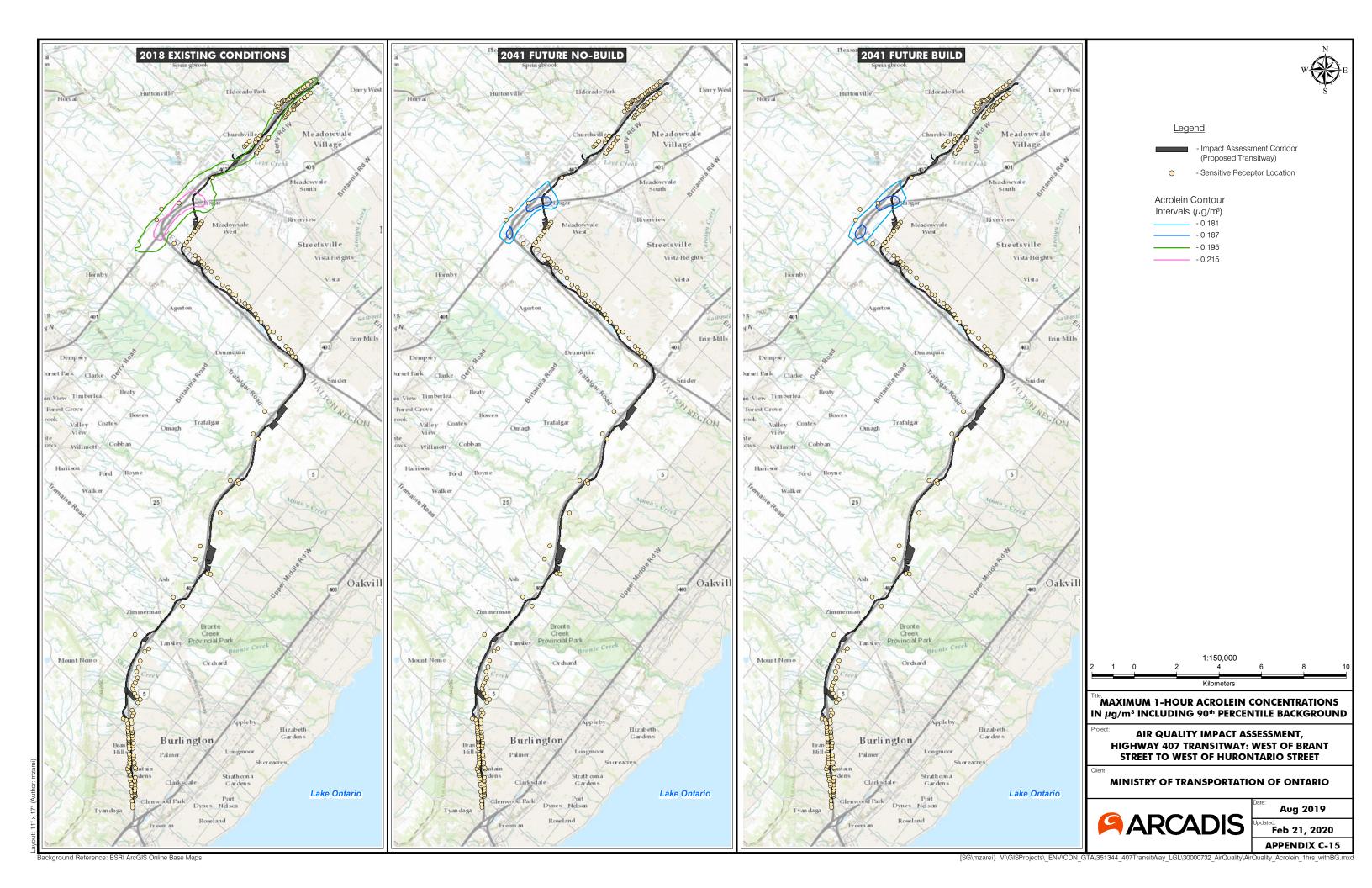


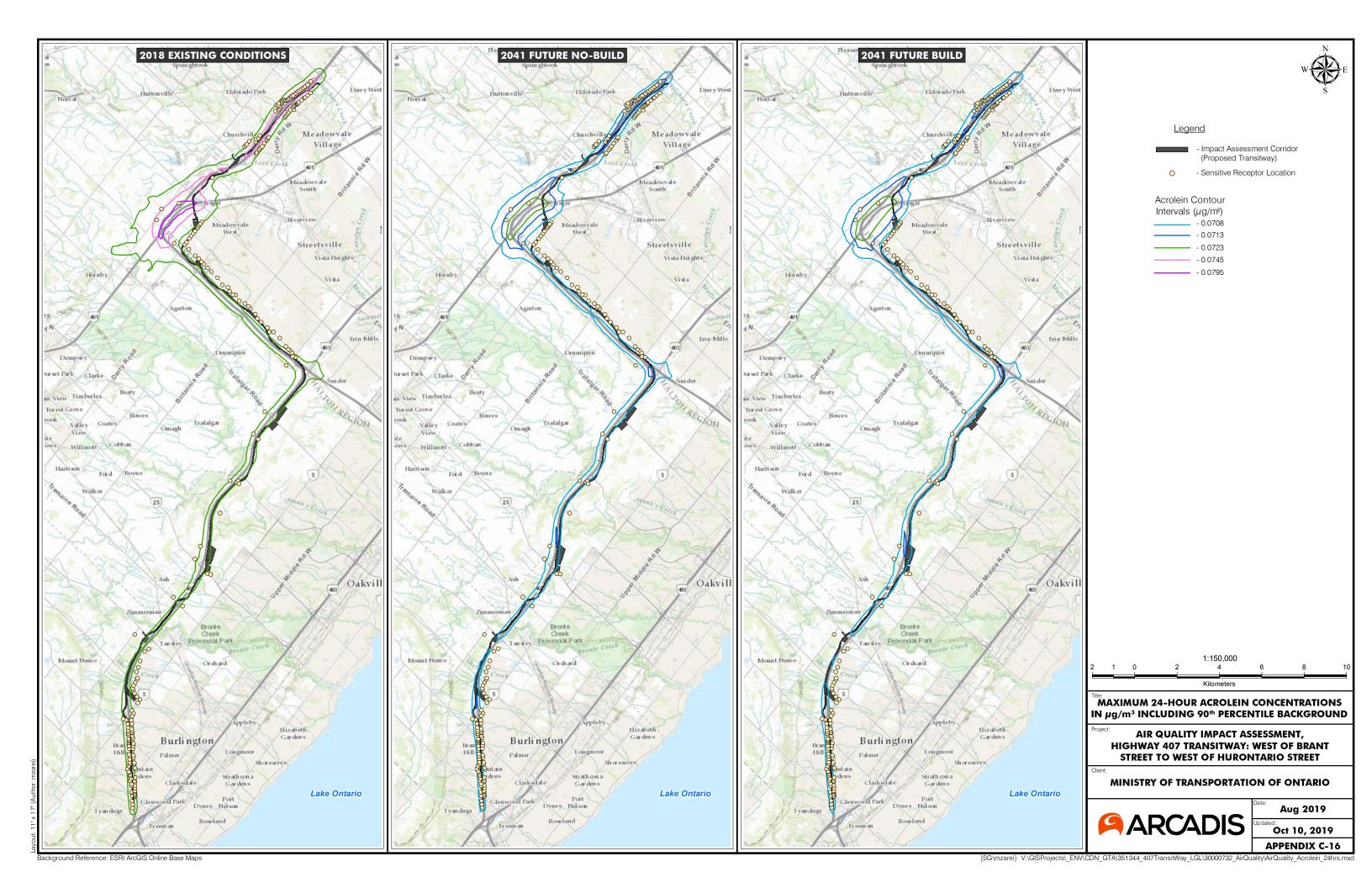


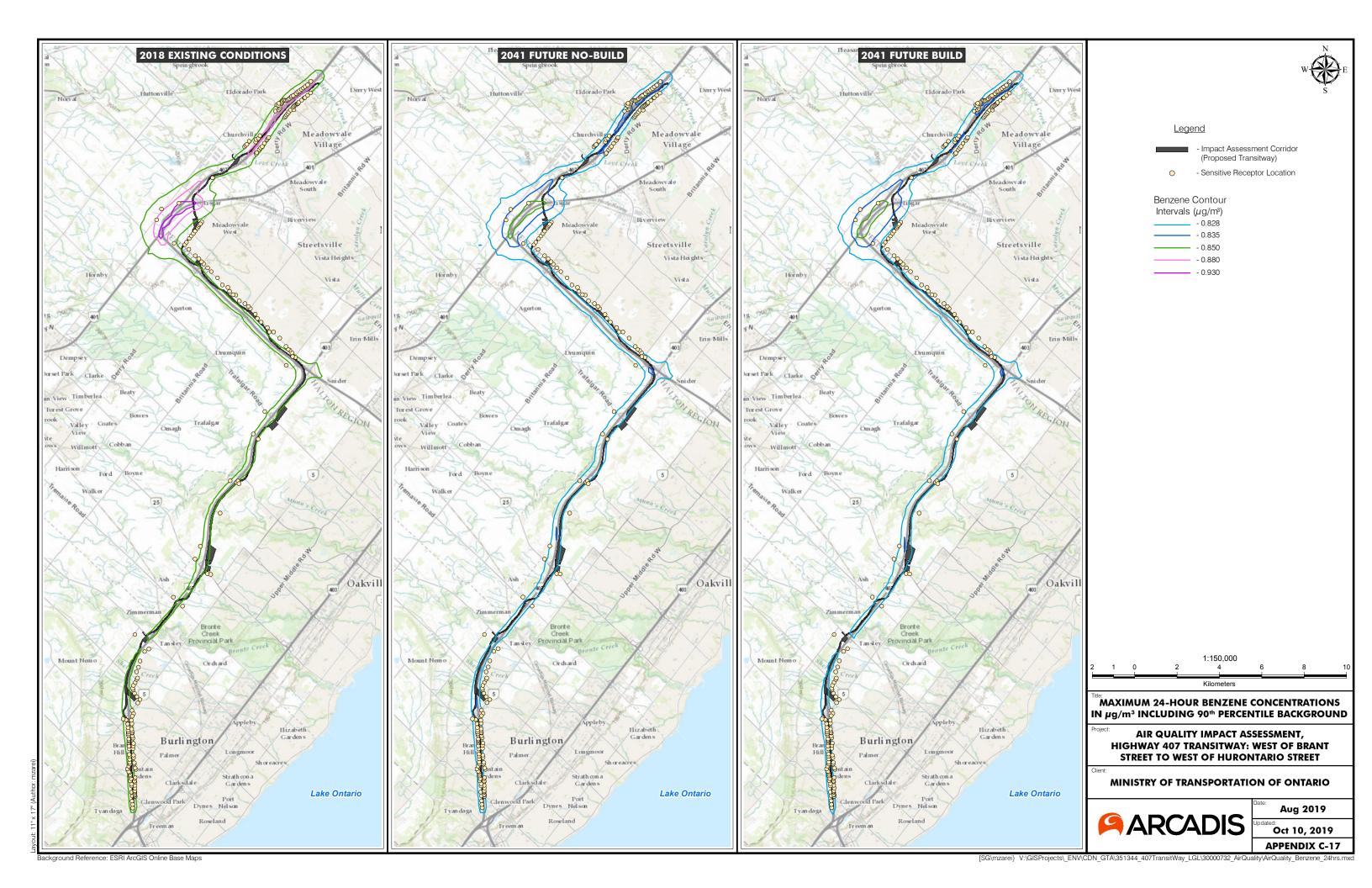


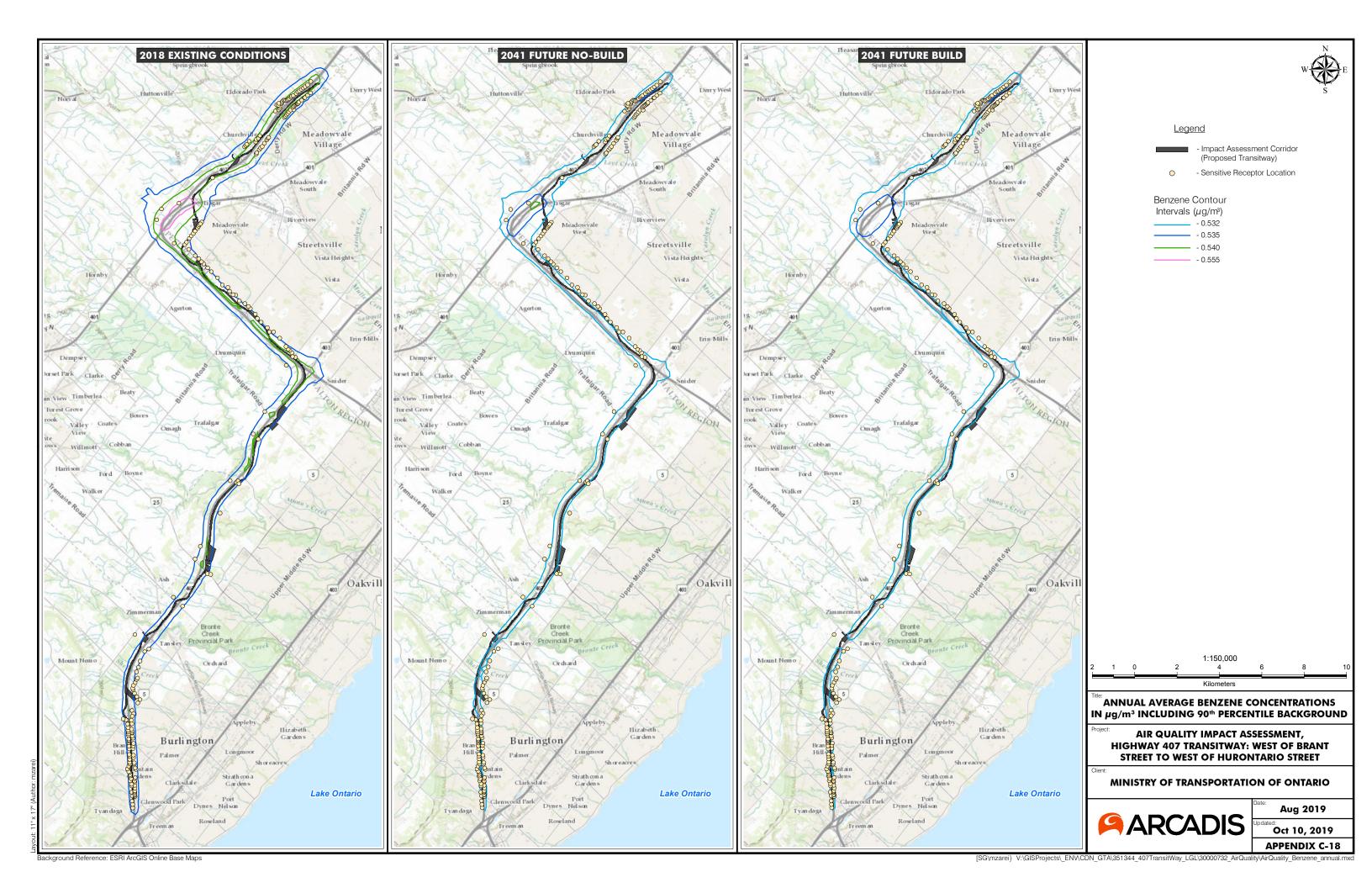


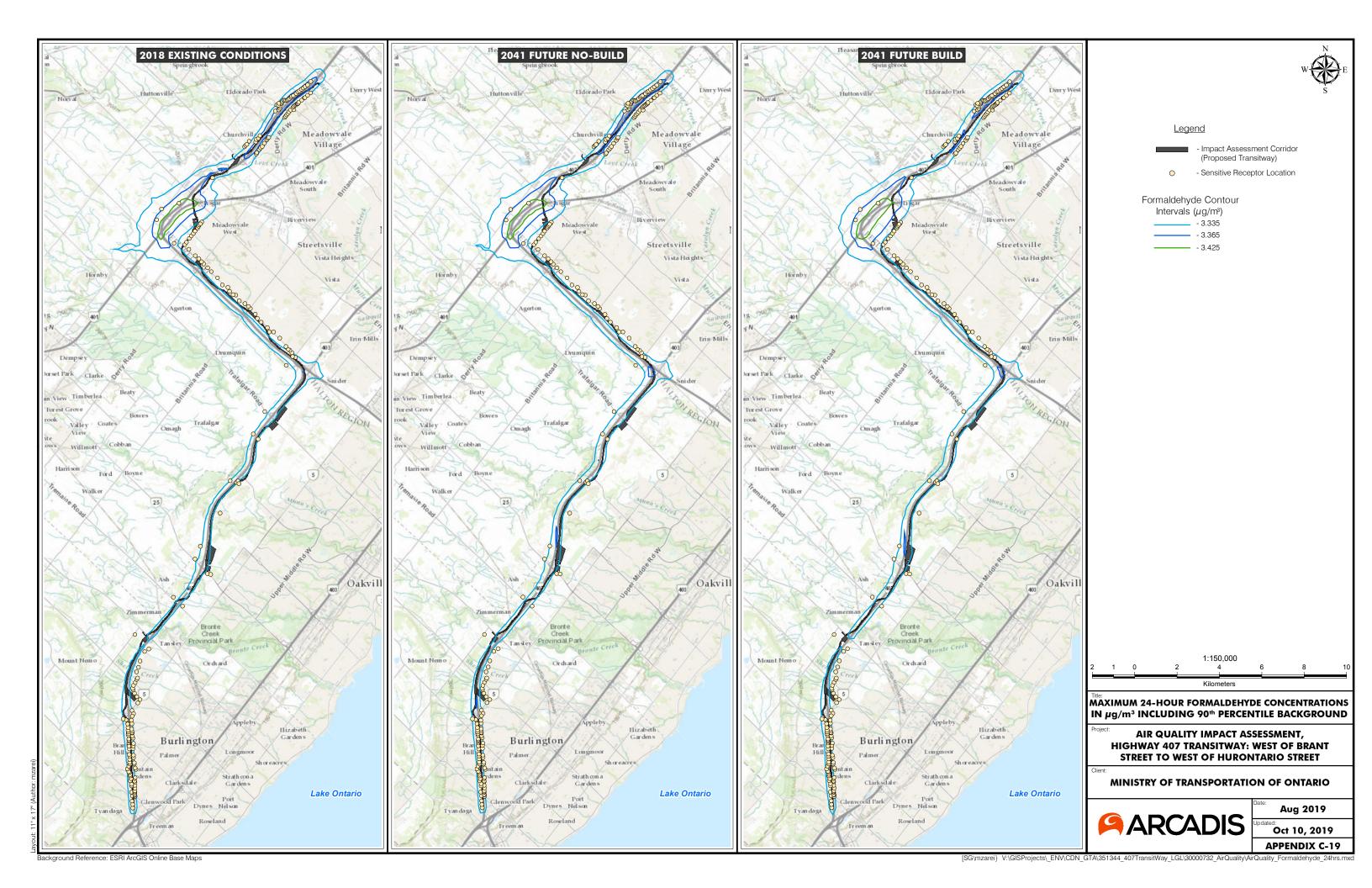


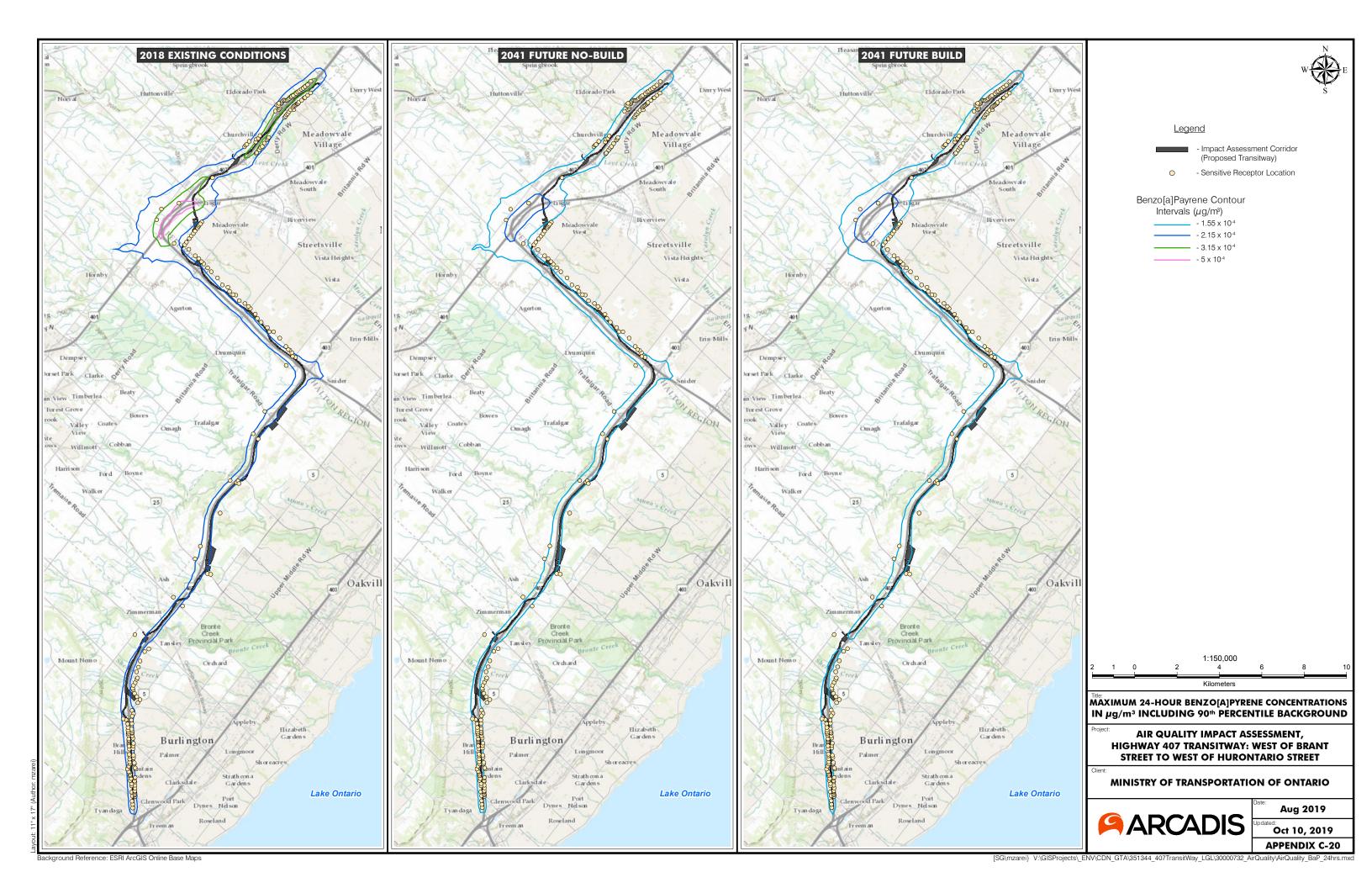


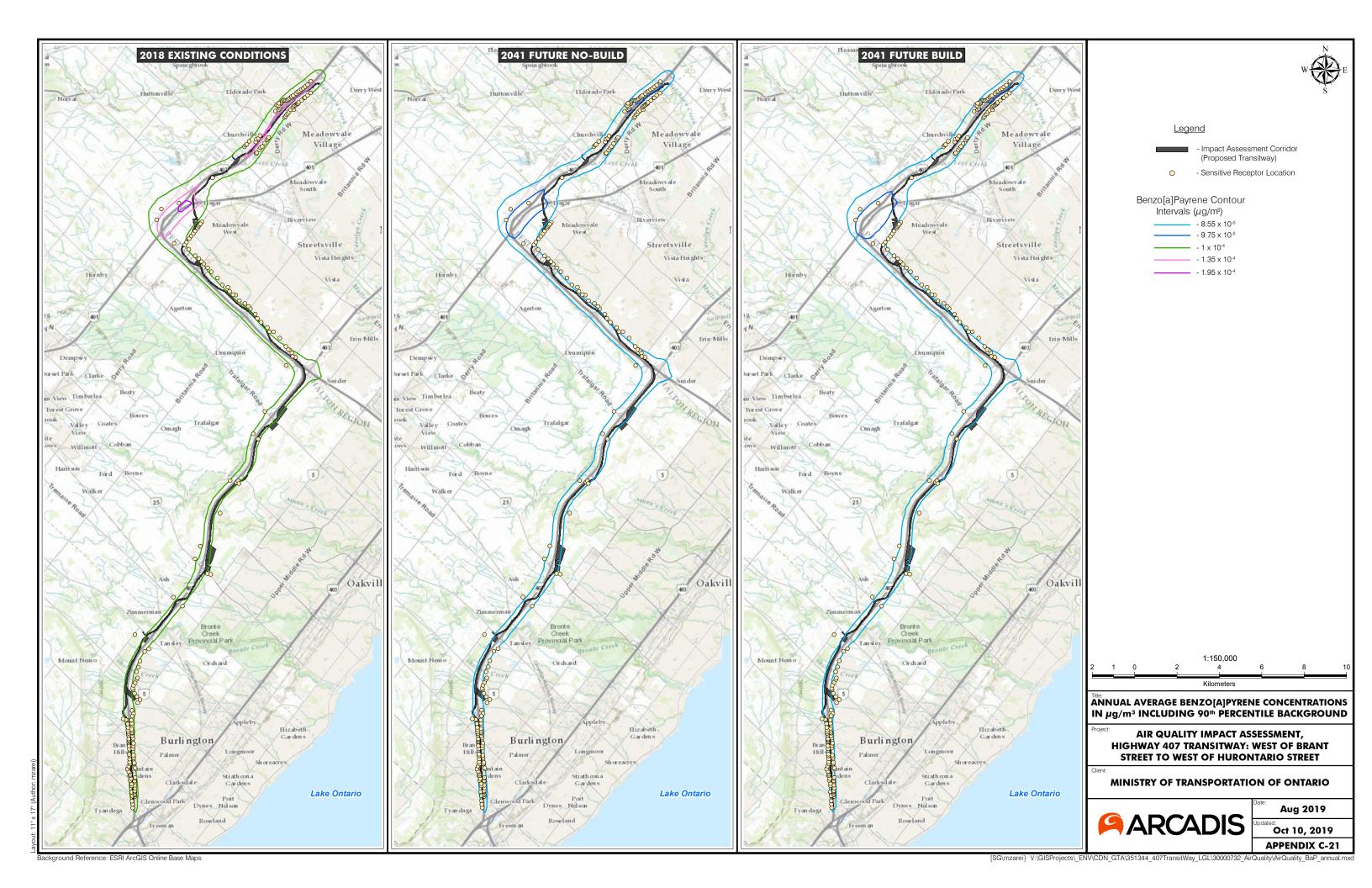














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