

Appendix C Air Quality Impacts Report

GOLD LINE EASTSIDE TRANSIT CORRIDOR PHASE 2



Metro

Prepared for
Los Angeles Metropolitan
Transportation Authority
One Gateway Plaza
Los Angeles, CA 90012

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Appendix C

Draft Air Quality Impacts Report

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Prepared for:
Los Angeles County Metropolitan Transportation Authority
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Table of Contents

1.0	Introduction	1
2.0	Proposed Project and Alternatives	2
2.1	Project Setting and Description	2
2.2	Build Alternatives	6
2.2.1	Alternative 1 Washington	6
2.2.1.1	Guideway Alignment	7
2.2.2	Alternative 2 Atlantic to Commerce/Citadel IOS	9
2.2.2.1	Guideway Alignment	9
2.2.3	Alternative 3 Atlantic to Greenwood IOS	9
2.2.3.1	Guideway Alignment	10
2.3	Maintenance and Storage Facilities	10
2.3.1	Commerce MSF	10
2.3.2	Montebello MSF	11
2.4	Ancillary Facilities	12
2.5	Proposed Stations	13
2.6	Description of Construction	14
2.7	Description of Operations	15
2.8	No Project Alternative	15
3.0	Regulatory Framework	16
3.1	Federal	16
3.2	State	19
3.3	Regional	20
3.3.1	Southern California Association of Governments	20
3.3.2	South Coast Air Quality Management District	21
3.3.2.1	Rule 402 – Nuisance	21
3.3.2.2	Rule 403—Fugitive Dust	22
3.4	Local	22
3.4.1	Los Angeles County 2035 General Plan	22
3.4.2	Los Angeles Metropolitan Transportation Authority	22
3.4.2.1	Countywide Sustainability Planning Policy	22
3.4.2.2	Climate Action and Adaptation Plan	23
3.4.2.3	Moving Beyond Sustainability Plan	23
3.4.2.4	Construction Demolition Debris Recycling and Reuse Policy	23
3.4.2.5	Green Construction Policy	23
3.4.3	City of Commerce	24
3.4.4	City of Montebello	24
3.4.5	City of Pico Rivera	24
3.4.6	City of Santa Fe Springs	25
3.4.7	City of Whittier	25
4.0	Methodology	26

4.1	Operational Emissions.....	26
4.2	CO Hot Spots	27
4.3	Construction Emissions.....	28
4.4	Health Risk Assessment	30
4.4.1	Area of Potential Impact	30
5.0	Thresholds of Significance	32
5.1	CEQA Guidelines Appendix G.....	32
5.2	SCAQMD Thresholds.....	32
5.2.1	Regional Criteria Pollutant Emissions Thresholds	32
5.2.2	Localized Significance Thresholds	34
5.2.3	TAC Health Risk Thresholds.....	35
6.0	Existing Setting.....	36
6.1	Air Quality Study Area	36
6.2	Health Risk Study Area.....	36
6.3	Existing Conditions	38
6.3.1	Climate and Atmospheric Conditions	38
6.3.2	Existing Air Quality Conditions	39
6.3.2.1	Monitoring Data – Criteria Pollutants.....	39
6.3.2.2	Intersection Analysis – CO Hot Spots	42
6.3.2.3	Existing Operational Emissions (Criteria Pollutants).....	42
6.3.3	Existing Health Risk Conditions.....	44
7.0	Impacts	46
7.1	Impact AQ-1: Air Quality Plan	46
7.1.1	Alternative 1 Washington Boulevard	46
7.1.1.1	Operational and Construction Impacts	47
7.1.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	48
7.1.2.1	Operational & Construction Impacts.....	48
7.1.3	Alternative 3 Atlantic to Greenwood IOS	49
7.1.3.1	Operational & Construction Impacts.....	49
7.1.4	Maintenance and Storage Facilities	50
7.1.4.1	Operational & Construction Impacts.....	50
7.2	Impact AQ-2: Regional Criteria Pollutant Emissions	51
7.2.1	Alternative 1 Washington Boulevard	51
7.2.1.1	Operational Impacts	51
7.2.1.2	Construction Impacts	53
7.2.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	55
7.2.2.1	Operational Impacts	55
7.2.2.2	Construction Impacts	56
7.2.3	Alternative 3 Atlantic to Greenwood IOS	57
7.2.3.1	Operational Impacts	57
7.2.3.2	Construction Impacts	59
7.2.4	Maintenance and Storage Facilities	61
7.2.4.1	Operational Impacts	61

7.2.4.2	Construction Impacts	62
7.3	Impact AQ-3: Localized Pollutant Concentrations	63
7.3.1	Alternative 1 Washington Boulevard	63
7.3.1.1	Operational Impacts	63
7.3.1.2	Construction Impacts	64
7.3.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	66
7.3.2.1	Operational Impacts	66
7.3.2.2	Construction Impacts	67
7.3.3	Alternative 3 Atlantic to Greenwood IOS	68
7.3.3.1	Operational Impacts	68
7.3.3.2	Construction Impacts	69
7.3.4	Maintenance and Storage Facilities	71
7.3.4.1	Operational Impacts	71
7.3.4.2	Construction Impacts	72
7.4	Impact AQ-4: Other Emissions.....	73
7.4.1	Alternative 1 Washington Boulevard	73
7.4.1.1	Operational Impacts	73
7.4.1.2	Construction Impacts	74
7.4.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	75
7.4.2.1	Operational Impacts	75
7.4.2.2	Construction Impacts	75
7.4.3	Alternative 3 Atlantic to Greenwood IOS	76
7.4.3.1	Operational Impacts	76
7.4.3.2	Construction Impacts	77
7.4.4	Maintenance and Storage Facilities	77
7.4.4.1	Operational Impacts	78
7.4.4.2	Construction Impacts	78
7.5	Impact HR-1: Human Health Risks	79
7.5.1	Alternative 1 Washington Boulevard	79
7.5.1.1	Operational Impacts	79
7.5.1.2	Construction Impacts	80
7.5.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	82
7.5.2.1	Operational Impacts	82
7.5.2.2	Construction Impacts	82
7.5.3	Alternative 3 Atlantic to Greenwood IOS	84
7.5.3.1	Operational Impacts	84
7.5.3.2	Construction Impacts	84
7.5.4	Maintenance and Storage Facilities	86
7.5.4.1	Operational Impacts	86
7.5.4.2	Construction Impacts	87
8.0	Mitigation Measures and Impacts after Mitigation	89
8.1	AQ-1: Air Quality Plan.....	89
8.1.1	Alternative 1 Washington Boulevard	89

8.1.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	89
8.1.3	Alternative 3 Atlantic to Greenwood IOS	89
8.1.4	Maintenance and Storage Facilities	89
8.2	AQ-2: Criteria Pollutants	89
8.2.1	Alternative 1 Washington Boulevard	90
8.2.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	90
8.2.3	Alternative 3 Atlantic to Greenwood IOS	90
8.2.4	Maintenance and Storage Facilities	90
8.3	AQ-3: Pollutant Concentrations	90
8.3.1	Alternative 1 Washington Boulevard	90
8.3.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	91
8.3.3	Alternative 3 Atlantic to Greenwood IOS	91
8.3.4	Maintenance and Storage Facilities	91
8.4	AQ-4: Other Emissions	91
8.4.1	Alternative 1 Washington Boulevard	91
8.4.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	91
8.4.3	Alternative 3 Atlantic to Greenwood IOS	92
8.4.4	Maintenance and Storage Facilities	92
8.5	HR-1: Human Health Risks	92
8.5.1	Alternative 1 Washington Boulevard	92
8.5.2	Alternative 2 Atlantic to Commerce/Citadel IOS.....	92
8.5.3	Alternative 3 Atlantic to Greenwood IOS	92
8.5.4	Maintenance and Storage Facilities	93
8.6	Mitigation Measure Applicability.....	93
9.0	No Project Alternative	94
9.1	No Project Alternative	94
9.1.1	Description.....	94
9.1.2	Impacts.....	94
9.1.2.1	AQ-1: Air Quality Plan	94
9.1.2.2	AQ-2: Criteria Pollutants.....	95
9.1.2.3	AQ-3: Pollutant Concentrations.....	95
9.1.2.4	AQ-4: Other Emissions.....	96
9.1.2.5	HR-1: Human Health Risks	96
10.0	Summary of Alternatives	97
10.1	No Project.....	97
10.2	Alternative 1 Washington Boulevard + MSF	98
10.2.1	Alternative 1 Washington Boulevard + MSF + Design Option.....	99
10.3	Alternative 2 Atlantic to Commerce/Citadel IOS + MSF	99
10.3.1	Alternative 2 Atlantic to Commerce/Citadel IOS + MSF + Design Option	100
10.4	Alternative 3 Atlantic to Greenwood IOS + MSF.....	100
10.4.1	Alternative 3 Atlantic to Greenwood + MSF + Design Option	102
11.0	Preparers Qualifications.....	103
12.0	References Cited	104

Tables

Table 3-1. National and California Ambient Air Quality Standards	17
Table 3-2. Characteristics and Health Effects of Criteria Pollutants	18
Table 3-3. Federal and State Attainment Status	19
Table 5-1. SCAQMD Mass Daily Thresholds	33
Table 5-2. Allowable Construction Emissions for Source-Receptor Area ¹ for a 5-Acre Site at 25-Meter (82-Foot) Receptor Distance from Site Boundary	34
Table 6-1. Sensitive Receptors in the Project Area	36
Table 6-2. Summary of Pollutant Monitoring Data Near the DSA	40
Table 6-3. Existing Conditions Highway Traffic Emissions	43
Table 6-4. Existing Conditions Total Operational Emissions	44
Table 7-1. Alternative 1 Operational Regional Criteria Pollutant Emissions	52
Table 7-2. Alternative 1 Construction Regional Criteria Pollutant Emissions	53
Table 7-3. Build Alternative 2 Operational Regional Criteria Pollutant Emissions	55
Table 7-4. Alternative 2 Construction Regional Criteria Pollutant Emissions	56
Table 7-5. Build Alternative 3 Operational Regional Criteria Pollutant Emissions	58
Table 7-6. Build Alternative 3 Construction Regional Criteria Pollutant Emissions	59
Table 7-7. Build Alternative 1 Construction Localized Emissions	65
Table 7-8. Build Alternative 2 Construction Localized Emissions	67
Table 7-9. Build Alternative 3 Construction Localized Emissions	70
Table 7-10. Build Alternative 1 Tier 2 HRA Screening Results	81
Table 7-11. Build Alternative 2 Tier 2 HRA Screening Results	83
Table 7-12. Build Alternative 3 Tier 2 HRA Screening Results	85
Table 10-1. Significant Impacts Remaining After Mitigation	97

Figures

Figure 2.1. Alternative 1 Washington GSA and DSA	3
Figure 2.2. Alternative 2 Atlantic to Commerce/Citadel IOS GSA and DSA	4
Figure 2.3. Alternative 3 Atlantic to Greenwood IOS GSA and DSA	5
Figure 2.4. Atlantic/Pomona Station Option	8
Figure 2.5. Montebello MSF S-Curve Alignment	12
Figure 6.1. Ten-Year Ozone Concentration Trends	41

Attachments

Attachment A – Construction Emissions Calculations

Attachment B – Construction Health Risk Assessment Calculations

Attachment C – Operational Emission Calculations

Attachment D – CO Hot Spots Calculations

Acronyms

2020 RTP/SCS	Connect SoCal 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy
AQMP	Air Quality Management Plan
ASI	application screening index
BAAQMD	Bay Area Air Quality Management District
BMP	Best Management Practices
BNSF	Burlington Northern Santa Fe
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emission Estimator Model
CARB	California Air Resources Board
CCAA	California Clean Air Act
CEQA	California Environmental Quality Act
CO	carbon monoxide
COOP	Cooperative Observer Network
DPM	diesel particulate matter
DSA	detailed study area
EIR	Environmental Impact Report
EMFAC	Emission Factor Model for On-road Motor Vehicles
°F	Fahrenheit
FR	Federal Register
FTIP	Federal Transportation Improvement Program
GHG	greenhouse gas
GSA	general study area

Handbook	CEQA Air Quality Handbook
HI	Hazard Index
HRA	Health Risk Assessment
I	Interstate
ICT	Innovative Clean Transit
IOS	Initial Operating Segment
LRT	light rail transit
L RTP	Long Range Transportation Plan
LRV	light rail vehicle
LST	localized significance threshold
MATES IV	Multiple Air Toxics Exposure Study IV
MBS	Moving Beyond Sustainability
Metro	Los Angeles County Metropolitan Transportation Authority
MICR	Maximum Individual Cancer Risk
MSF	maintenance and storage facility
MUTCD	Manual of Uniform Traffic Control Devices
NAAQS	National Ambient Air Quality Standards
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
OCS	overhead catenary system
O ₃	ozone
Pb	lead
PIH	Presbyterian Intercommunity Hospital
PM ₁₀	inhalable particulate matter or particulate matter with an aerodynamic diameter less than or equal to 10 micrometers

PM _{2.5}	fine particulate matter or particulate matter with an aerodynamic diameter less than or equal to 2.5 micrometers
ppmv	parts per million by volume
Project	Eastside Transit Corridor Phase 2 Project
ROG	reactive organic gases
ROW	right-of-way
RTP	Regional Transportation Plan
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SIP	state implementation plan
SO ₂	sulfur dioxide
SoCAB	South Coast Air Basin
SO _x	sulfur oxides
SRA	Source-Receptor Area
TAC	toxic air contaminants
TBM	tunnel boring machine
TOG	total organic gases
TPSS	traction power substation
USEPA	U.S. Environmental Protection Agency
VMT	vehicle miles traveled
VOC	volatile organic compounds
WRCC	Western Regional Climate Center
ZEB	zero-emission bus

1.0 INTRODUCTION

This impacts report discusses the Eastside Transit Corridor Phase 2 Project (Project) setting in relation to air quality. It describes existing conditions, current applicable regulatory setting, and potential impacts from operation and construction of the Build Alternatives and the No Project Alternative. This study was conducted in compliance with the California Environmental Quality Act (CEQA) and the State CEQA Guidelines, California Code of Regulations Section 15000 et seq.

The Project would extend the Los Angeles County Metropolitan Transportation Authority (Metro) L (Gold) Line, a light rail transit (LRT) line, from its current terminus at the Atlantic Station in the unincorporated community of East Los Angeles to the city of Whittier. It would extend the existing Metro L (Gold) Line approximately 3.2 to 9.0 miles, depending on the Build Alternative.

The Project area of analysis includes a general study area (GSA) that is regional in scope and scale, and a detailed study area (DSA) that encompasses an approximately two-mile area from the Project alignment in eastern Los Angeles County. Additionally, specialized study areas were developed, where applicable, for certain environmental impact categories where the potential impacts would occur within an area that varies from the GSA or DSA. All specialized study areas are contained within the GSA. The study area for air quality is the DSA.

A diverse mix of land uses are located within the GSA and DSA, including single- and multi-family residences, commercial and retail uses, industrial development, parks and recreational, health and medical uses, educational institutions, and vacant land. The Project would traverse densely populated, low-income, and heavily transit-dependent communities with major activity centers within the Gateway Cities subregion of Los Angeles County.

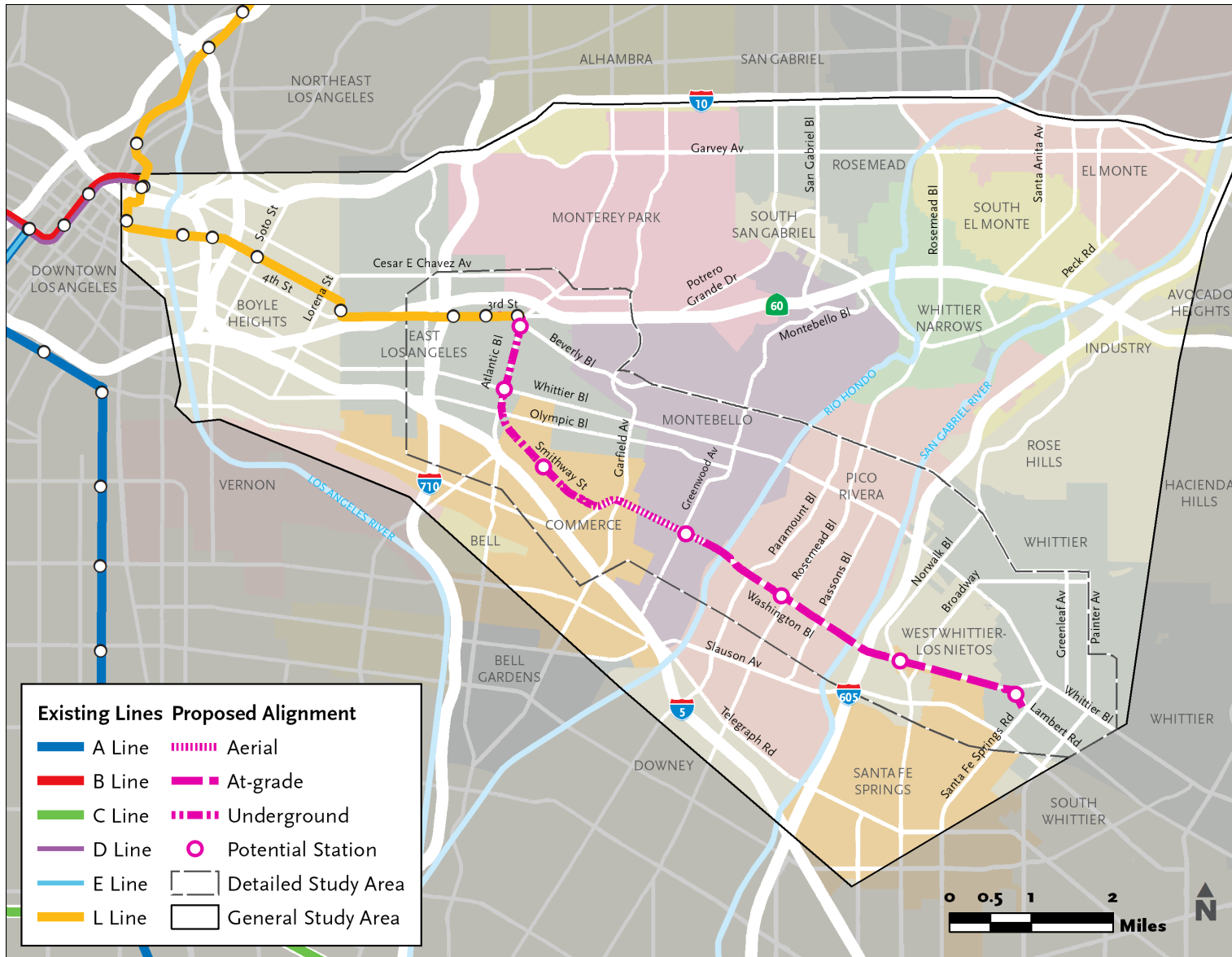
2.0 PROPOSED PROJECT AND ALTERNATIVES

2.1 Project Setting and Description

This impacts report evaluates potential environmental impacts of three Build Alternatives and a No Project Alternative. The Build Alternatives are: Alternative 1 Washington (Alternative 1), Alternative 2 Atlantic to Commerce/Citadel Initial Operating Segment (IOS) (Alternative 2), and Alternative 3 Atlantic to Greenwood IOS (Alternative 3).

For purposes of describing the Project, two study areas have been defined. The GSA is regional in scope and scale, whereas the DSA encompasses an approximately two-mile area from the Project alignment's centerline. The GSA is the same for all three of the Build Alternatives. The purpose of the GSA is to establish the study area for environmental resources that are regional in scope and scale, such as regional transportation, including vehicle miles traveled (VMT) and regional travel demands, population, housing, or employment. The GSA consists of several jurisdictions within Los Angeles County including the cities of Bell, Commerce, El Monte, Industry, Los Angeles, Montebello, Monterey Park, Pico Rivera, Rosemead, South El Monte, Santa Fe Springs, Whittier, unincorporated areas of Los Angeles County, which includes East Los Angeles and West Whittier-Los Nietos, and other cities within the San Gabriel Valley. It is generally bounded by Interstate (I) 10 to the north, Peck Road in South El Monte and Lambert Road in Whittier to the east, I-5 and Washington Boulevard to the south, and I-710 to the west. **Figure 2.1**, **Figure 2.2**, and **Figure 2.3** present the boundaries of the GSA for each of the three Build Alternatives.

The DSA establishes a study area to evaluate environmental resources that are more sensitive to the physical location of the Build Alternatives. The DSA for Alternative 1 Washington generally includes the area within a half-mile to two-mile distance from the guideway centerline, as shown in **Figure 2.1**. It encompasses five cities, Commerce, Montebello, Pico Rivera, Santa Fe Springs, and Whittier, and communities of unincorporated East Los Angeles and Whittier-Los Nietos. The DSA for Alternative 2 Atlantic to Commerce/Citadel IOS and Alternative 3 Atlantic to Greenwood IOS, does not extend as far to the east. As shown in **Figure 2.2** and **Figure 2.3** for Alternative 2 and Alternative 3 respectively, the DSA extends to the Rio Hondo and includes Commerce, Montebello, and unincorporated East Los Angeles.



Source: Metro; CDM Smith/AECOM JV, 2021.

Figure 2.1. Alternative 1 Washington GSA and DSA



Source: Metro; CDM Smith/AECOM JV, 2021.

Figure 2.2. Alternative 2 Atlantic to Commerce/Citadel IOS GSA and DSA



Source: Metro; CDM Smith/AECOM JV, 2021.

Figure 2.3. Alternative 3 Atlantic to Greenwood IOS GSA and DSA

2.2 Build Alternatives

This impacts report evaluates the potential environmental impacts of three Build Alternatives which have the same guideway alignment east of the existing terminus at Atlantic Station but vary in length. Alternative 1 has the longest alignment at approximately 9.0 miles with seven stations (one relocated/reconfigured and six new), two maintenance and storage facility (MSF) site options and would terminate at Lambert station on Lambert Road in the city of Whittier. Alternative 2 is approximately 3.2 miles in length with three stations, one MSF site option, and would terminate at the Commerce/Citadel station in the city of Commerce, with non-revenue lead tracks extending further into the city of Commerce to connect to the Commerce MSF site option. Alternative 3 is approximately 4.6 miles in length with four stations, two MSF site options, and would terminate at Greenwood station in the city of Montebello.

There are also design options under consideration for each of the three Build Alternatives that consist of a variation in the design of the relocated/reconfigured Atlantic Station (applicable to Alternatives 1, 2, and 3) and a variation in the station and alignment profile in Montebello (applicable to Alternatives 1 and 3). Construction and operation of one or both design options are considered and evaluated for Alternative 1 and Alternative 3.

To differentiate the impacts evaluation of a Build Alternative with or without the design option(s) incorporated, a Build Alternative without the design option(s) is referred to as the “base Alternative” (i.e., base Alternative 1). A Build Alternative with a design option incorporated is referred to by using the design option name (e.g., Alternative 1 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option). The three Build Alternatives and the design options are described in greater detail below.

2.2.1 Alternative 1 Washington

Alternative 1 would extend the Metro L (Gold) Line LRT approximately 9.0 miles east from the current at-grade station at Atlantic Boulevard to an at-grade terminus at Washington Boulevard/Lambert Road in the city of Whittier. This alternative would include a relocated/reconfigured Atlantic station in an underground configuration and six new stations: Atlantic/Whittier (underground), Commerce/Citadel (underground), Greenwood (aerial), Rosemead (at-grade), Norwalk (at-grade), and Lambert (at-grade). The base Alternative 1 alignment would transition from the existing at-grade alignment to an underground configuration and would transition to an aerial configuration in the city of Commerce before transitioning to at-grade at Montebello Boulevard. The alignment includes approximately 3.0 miles of tunnel, 1.5 miles of aerial, and 4.5 miles of at-grade alignment.

The Alternative 1 alignment crosses the Rio Hondo and San Gabriel River and the Rio Hondo Spreading Grounds. The existing San Gabriel River and Rio Hondo bridges would be replaced with new bridges designed to carry both the LRT facility and the four-lane roadway.

An MSF and other ancillary facilities would also be constructed as part of the Project, including overhead catenary system (OCS), cross passages, ventilation structures, traction power substation (TPSS) sites, crossovers, emergency generators, radio tower poles and equipment shelters, and other supporting facilities along the alignment.

Two design options for Alternative 1 are described below

2.2.1.1 Guideway Alignment

Under Alternative 1, the guideway would begin at the eastern end of the existing East Los Angeles Civic Center Station, transitioning from at-grade to underground at the intersection of South La Verne Avenue and East 3rd Street. The guideway would turn south and run beneath Atlantic Boulevard to approximately Verona Street and Olympic Boulevard. The underground guideway would then curve southeast, running under Smithway Street near the Citadel Outlets in the city of Commerce. After crossing Saybrook Avenue, the guideway would daylight from underground to an aerial configuration. Depending on the MSF site option that is selected, the aerial guideway would continue parallel to Washington Boulevard, east of Garfield Avenue, and merge into the center median of Washington Boulevard (Commerce MSF site option) or merge into the center median of Washington Boulevard at Gayhart Street (Montebello MSF site option). The alignment would maintain an aerial configuration then transition to an at-grade configuration east of Carob Way and would remain at-grade in the center of Washington Boulevard. The at-grade alignment would terminate at Lambert station in the city of Whittier.

2.2.1.1.1 Design Options

The following design options are being considered for Alternative 1:

Atlantic/Pomona Station Option – The Atlantic/Pomona Station Option would relocate the existing Atlantic Station to a shallow open air underground station with two side platforms and a canopy (**Figure 2.4**). This station design option would be located beneath the existing triangular parcel bounded by Atlantic Boulevard, Pomona Boulevard, and Beverly Boulevard. The excavation depth of the station invert would be approximately 20 to 25 feet from the existing ground elevation.

This option would also impact the guideway alignment and location of the tunnel boring machine (TBM) extraction pit. The underground guideway would be located east of Atlantic Boulevard and require full property acquisitions at its footprint between Beverly Boulevard and 4th Street. The alignment would connect with the base Alternative 2 alignment just north of the proposed Atlantic/Whittier station. The TBM extraction pit would be east of Atlantic Boulevard between Repetto Street and 4th Street. Limits for the excavation would occur between the TBM extraction pit and the intersection of Pomona Boulevard and Beverly Boulevard.

Montebello At-Grade Option – This design option consists of approximately one mile of at-grade guideway along Washington Boulevard between Yates Avenue and Carob Way in the city of Montebello. In this design option, after crossing Saybrook Avenue, the LRT guideway would daylight from underground to an aerial configuration to avoid disrupting existing Burlington Northern Santa Fe (BNSF) Railway tracks. The aerial guideway would continue parallel to Washington Boulevard, then merge into the center median east of Garfield Avenue. At Yates Avenue, the guideway would transition from aerial to an at-grade configuration and remain at-grade until terminating near Lambert Road in the city of Whittier. This design option includes an at-grade Greenwood station located west of Greenwood Avenue. The lead tracks to the MSF site option would also be at-grade. Alternative 1 with the Montebello At-Grade Option would have approximately 3.0 miles of underground, 0.5 miles of aerial, and 5.5 miles of at-grade alignment.



Source: Metro; ACE Team, January 2022.

Figure 2.4. Atlantic/Pomona Station Option

2.2.2 Alternative 2 Atlantic to Commerce/Citadel IOS

Alternative 2 would extend the Metro L (Gold) Line approximately 3.2 miles from the current terminus at Atlantic Boulevard to an underground terminal station at the Commerce/Citadel station in the city of Commerce with lead tracks connecting to the Commerce MSF site option. Alternative 2 would include a relocated/reconfigured Atlantic station and two new stations: Atlantic/Whittier (underground), and Commerce/Citadel (underground). The base Alternative 2 alignment includes approximately 3.0 miles of underground, 0.1 miles of aerial, and 0.1 miles of at-grade alignment.

An MSF and other ancillary facilities would also be constructed as part of the Project, including OCS, tracks, cross passages, ventilation structures, TPSSs, track crossovers, emergency generators, radio tower poles and equipment shelters, and other facilities along the alignment.

2.2.2.1 Guideway Alignment

Under Alternative 2, the guideway would follow the same alignment as under Alternative 1. The guideway would begin at the eastern end of the existing East Los Angeles Civic Center Station, transitioning from at-grade to underground at the intersection of South La Verne Avenue and East 3rd Street. The guideway would turn south and run beneath Atlantic Boulevard to approximately Verona Street and Olympic Boulevard. The underground guideway would then curve southeast, running under Smithway Street near the Citadel Outlets in the city of Commerce. The alignment would terminate at the Commerce/Citadel station with non-revenue lead tracks connecting to the Commerce MSF site option.

2.2.2.1.1 Design Option

One design option, the Atlantic/Pomona Station Option described in **Section 2.2.1.1.1** and shown on **Figure 2.4** is being considered for Alternative 2.

2.2.3 Alternative 3 Atlantic to Greenwood IOS

Alternative 3 would extend the Metro L (Gold) Line approximately 4.6 miles east from the current terminus at Atlantic Boulevard to an aerial terminal station at the Greenwood station in the city of Montebello. This alternative would include a relocated/reconfigured Atlantic station and three new stations: Atlantic/Whittier (underground), Commerce/Citadel (underground), and Greenwood (aerial). The base Alternative 3 alignment includes approximately 3.0 miles of underground, 1.5 miles of aerial, and 0.1 miles of at-grade alignment.

An MSF and other ancillary facilities would also be constructed as part of the Project, including OCS, tracks, cross passages, ventilation structures, TPSSs, track crossovers, emergency generators, radio tower poles and equipment shelters, and other facilities along the alignment.

Two design options for Alternative 3 are described below.

2.2.3.1 Guideway Alignment

Under Alternative 3, the guideway would follow the same alignment as under Alternative 1. The guideway would begin at the eastern end of the existing East Los Angeles Civic Center Station, transitioning from at-grade to underground at the intersection of South La Verne Avenue and East 3rd Street. The guideway would then turn south and run beneath Atlantic Boulevard to approximately Verona Street and Olympic Boulevard. The underground guideway would then curve southeast, running under Smithway Street near the Citadel Outlets in the city of Commerce. After crossing Saybrook Avenue, the guideway would daylight from underground to an aerial configuration. Depending on the MSF site option that is selected, the aerial guideway would continue parallel to Washington Boulevard, east of Garfield Avenue, and merge into the center median of Washington Boulevard (Commerce MSF site option) or merge into the center media of Washington Boulevard at Gayhart Street (Montebello MSF site option). The aerial guideway would terminate at the Greenwood station in the city of Montebello.

2.2.3.1.1 Design Option

Two design options described in **Section 2.2.1.1.1**, the Atlantic/Pomona Station Option and the Montebello At-Grade Option are being considered for Alternative 3. Alternative 3 with the Montebello At-Grade Option would have approximately 3.0 miles of underground, 0.5 miles of aerial, and 1.1 miles of at-grade alignment.

2.3 Maintenance and Storage Facilities

The Project has two MSF site options: the Commerce MSF site option and the Montebello MSF site option. One MSF site option would be constructed. The MSF would provide equipment and facilities to clean, maintain, and repair rail cars, vehicles, tracks, and other components of the system. The MSF would enable storage of light rail vehicles (LRVs) that are not in service and would connect to the mainline with one lead track. The MSF would also provide office space for Metro rail operation staff, administrative staff, and communications support staff. The MSF would be the primary physical employment centers for rail operation employees, including train operators, maintenance workers, supervisors, administrative, security personnel and other roles.

The Commerce MSF site option is located in the city of Commerce, and the Montebello MSF site option is located in the city of Montebello. The Commerce MSF site option is located where it could support any of the three Build Alternatives. The Montebello MSF site option is located where it could support either Alternative 1 or Alternative 3.

2.3.1 Commerce MSF

The Commerce MSF site option is located in the city of Commerce, west of Washington Boulevard and north of Gayhart Street. The site is approximately 24 acres and is bounded by Davie Avenue to the east, Fleet Street to the north, Saybrook Avenue to the west, and an unnamed street to the south. Additional acreage would be needed to accommodate the lead track and construction staging. As shown in a dashed line on **Figure 2.5**, the guideway alignment with the Commerce MSF site option would daylight from an underground to aerial configuration west of the intersection of Gayhart Street

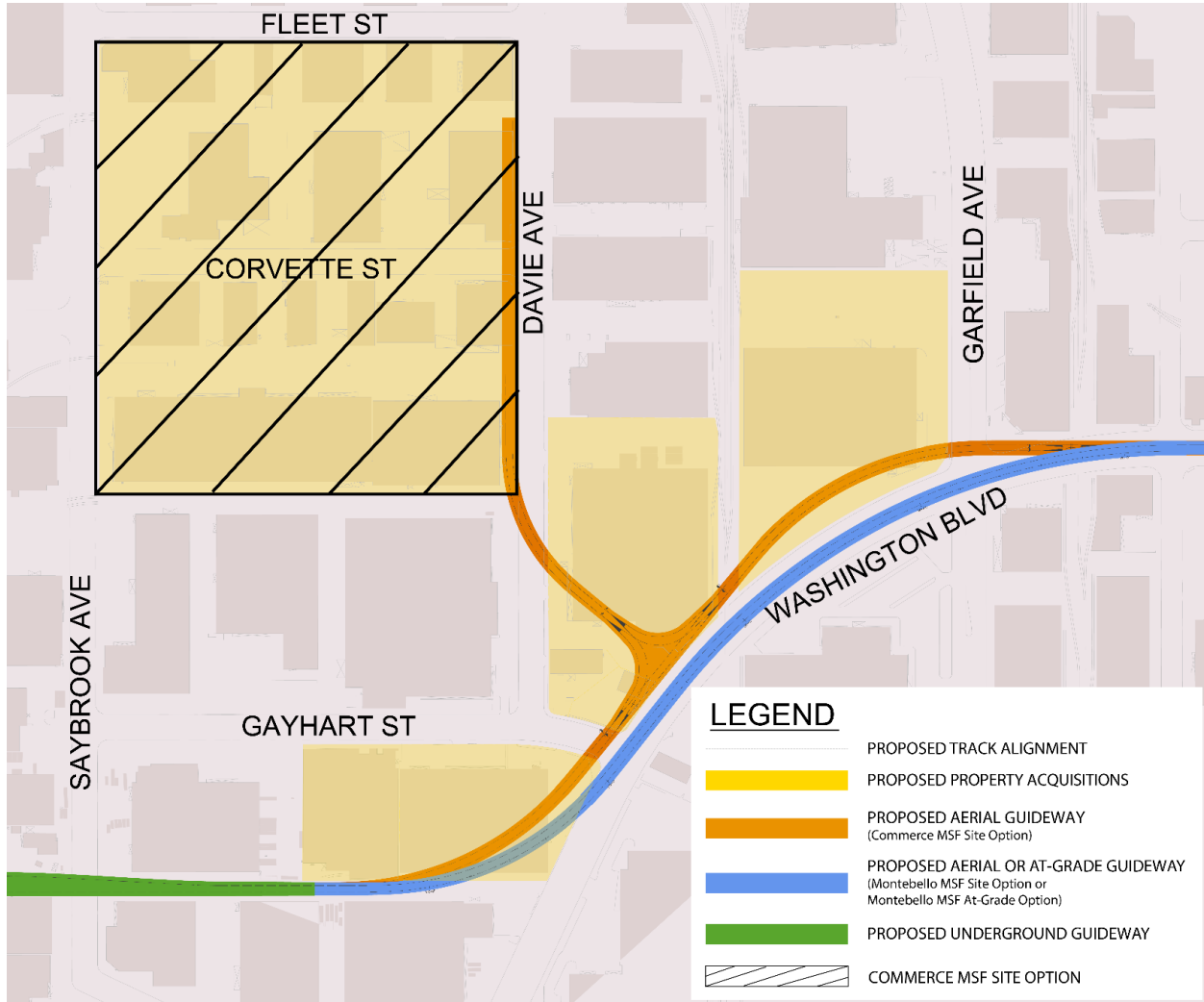
and Washington Boulevard and would run parallel to Washington Boulevard from Gayhart Street to Yates Avenue. The lead tracks to the Commerce MSF site option would be located northeast of the intersection of Gayhart Street and Washington Boulevard and extend in an aerial configuration and then would transition to at-grade within the MSF after crossing Davie Avenue. To construct and operate the Commerce MSF site option, Corvette Street would be permanently closed between Saybrook Avenue and Davie Avenue. Corvette Street is an undivided two-lane road and is functionally classified as a local street under the California Road System. The facility would accommodate storage for approximately 100 LRVs.

2.3.2 Montebello MSF

The Montebello MSF site option is located in the city of Montebello, north of Washington Boulevard and south of Flotilla Street between Yates Avenue and S. Vail Avenue. The site is approximately 30 acres in size and is bounded by S. Vail Avenue to the east, a warehouse structure along the south side of Flotilla Street to the north, Yates Avenue to the west, and a warehouse rail line to the south. Additional acreage would be needed to accommodate the lead track and construction staging. As shown on in a solid line on **Figure 2.5**, as with the Commerce MSF site option, the guideway alignment with the Montebello MSF site option would daylight from an underground to an aerial configuration west of intersection of Gayhart Street and Washington Boulevard. The alignment would be located further east than the alignment with the Commerce MSF site option. The aerial guideway for the Montebello MSF site option would transition to the median of Washington Boulevard at Gayhart Street. Columns that would provide structural support for the aerial guideway would be installed in the median of Washington Boulevard and would require roadway reconfiguration and striping on Washington Boulevard.

The lead tracks would be in an aerial configuration from Washington Boulevard, parallel S. Vail Avenue, and then transition to at-grade as it approaches the MSF. The facility would accommodate storage for approximately 120 LRVs.

The Montebello MSF At-Grade Option includes an at-grade configuration for the lead tracks to the Montebello MSF. This design option would be necessary if the Montebello At-Grade Option is selected under Alternative 1 or Alternative 3. In this design option, the lead tracks would be in an at-grade configuration from Washington Boulevard, paralleling S. Vail Avenue and remain at-grade to connect to the Montebello MSF site option. For this design option, through access on Acco Street to Vail Avenue would be eliminated and cul-de-sacs would be provided on each side of the lead tracks to ensure that access to businesses in this area is maintained. Acco Street is an undivided two-lane road and is functionally classified as a local street under the California Road System.



Source: Metro; ACE Team, January 2022.

Figure 2.5. Montebello MSF S-Curve Alignment

2.4 Ancillary Facilities

The Build Alternatives would require a number of additional elements to support vehicle operations, including but not limited to the OCS, tracks, crossovers, cross passages, ventilation structures, TPSS, train control houses, electric power switches and auxiliary power rooms, communications rooms, radio tower poles and equipment shelters, and an MSF. Alternatives 1, 2, and 3 would have an underground alignment of approximately 3 miles in length between La Verne and Saybrook Avenue. Per Metro's Fire Life Safety Criteria, ventilation shafts and emergency fire exits would be installed along the tunnel portion of the alignment. These would be located at the underground stations or public right-of-way (ROW). The alignment for Alternative 1 and Alternative 3 would travel along the median of the roadway for most of the route. The precise location of ancillary facilities would be determined in a subsequent design phase.

2.5 Proposed Stations

The following stations would be constructed under Alternative 1:

- Atlantic (Relocated/Reconfigured) – The existing Atlantic Station would be relocated and reconfigured to an underground center platform station located beneath Atlantic Boulevard south of Beverly Boulevard in East Los Angeles. The existing parking structure located north of the 3rd Street and Atlantic Boulevard intersection would continue to serve this station.
- Atlantic Pomona Station Option – The Atlantic/Pomona Station Option would relocate the existing Atlantic Station to a shallow underground open-air station with two side platforms and a canopy. This station design option would be located beneath the existing triangular parcel bounded by Atlantic Boulevard, Pomona Boulevard, and Beverly Boulevard. The existing parking structure located north of the 3rd Street and Atlantic Boulevard intersection would continue to serve this station.
- Atlantic/Whittier – This station would be underground with a center platform located beneath the intersection of Atlantic and Whittier Boulevards in East Los Angeles. Parking would not be provided at this station.
- Commerce/Citadel – This station would be underground with a center platform located beneath Smithway Street near the Citadel Outlets in the city of Commerce. Parking would not be provided at this station.
- Greenwood – This station would be aerial with a side platform located in the median of Washington Boulevard east of Greenwood Avenue in the city of Montebello. This station would provide a surface parking facility near the intersection of Greenwood Avenue and Washington Boulevard.
 - Under the Montebello At-Grade Option, Greenwood station would be an at-grade station located west of the intersection at Greenwood and Washington Boulevard.
- Rosemead – This station would be at-grade with a center platform located in the center of Washington Boulevard west of Rosemead Boulevard in the city of Pico Rivera. This station would provide a surface parking facility near the intersection of Rosemead and Washington Boulevards.
- Norwalk – This station would be at-grade with a center platform located in the median of Washington Boulevard east of Norwalk Boulevard in the city of Santa Fe Springs. This station would provide a surface parking facility near the intersection of Norwalk and Washington Boulevards.
- Lambert – This station would be at-grade with a center platform located south of Washington Boulevard just west of Lambert Road in the city of Whittier. This station would provide a surface parking facility near the intersection of Lambert Road and Washington Boulevard.

Alternative 2 would include Atlantic (Relocated/Reconfigured), Atlantic/Whittier, and Commerce/Citadel stations as described above.

Alternative 3 would include Atlantic (Relocated/Reconfigured), Atlantic/Whittier, Commerce/Citadel, and Greenwood stations as described above.

Station amenities would include items in the Metro Systemwide Station Standards Policy (Metro 2018) such as station pin signs, security cameras, bus shelters, benches, emergency/information telephones, stairs, map cases, fare collection, pedestrian and street lighting, hand railing, station landscaping, trash receptacles, bike racks and lockers, emergency generators, power boxes, fire hydrants, and artwork. Escalators and elevators would be located in aerial and underground stations. Station entry portals would be implemented at underground stations. Station access would be ADA-compliant and also have bicycle and pedestrian connections. Details regarding most of these items, including station area planning and urban design, would be determined at a later phase.

2.6 Description of Construction

Construction of the Project would include a combination of elements dependent upon the locally preferred alternative. The major construction activities include guideway construction (at-grade, aerial, underground); decking and tunnel boring for the underground guideway; station construction; demolition; utility relocation and installation work; street improvements including sidewalk reconstruction and traffic signal installation; retaining walls; LRT operating systems installation including TPSS and OCS; parking facilities; an MSF; and construction of other ancillary facilities. Alternative 1 would include construction of bridge replacements over the San Gabriel and Rio Hondo Rivers.

In addition to adhering to regulatory compliance, the development of the Project would employ conventional construction methods, techniques, and equipment. All work for development of the LRT system would conform to accepted industry specifications and standards, including Best Management Practices (BMP). Project engineering and construction would, at minimum, be completed in conformance with the regulations, guidelines, and criteria, including, but not limited to, Metro Rail Design Criteria (MRDC) (Metro 2018), California Building Code, Metro Operating Rules, and Metro Sustainability Principles.

The construction of the Project is expected to last approximately 60 to 84 months. Construction activities would shift along the corridor so that overall construction activities should be relatively short in duration at any one point. Most construction activities would occur during daytime hours. For specialized construction tasks, it may be necessary to work during nighttime hours to minimize traffic disruptions. Traffic control and pedestrian control during construction would follow local jurisdiction guidelines and the Manual of Uniform Traffic Control Devices (MUTCD) standards. Typical roadway construction traffic control methods and devices would be followed including the use of signage, roadway markings, flagging, and barricades to regulate, warn, or guide road users. Properties adjacent to the Project's alignment would be used for construction staging. The laydown and storage areas for construction equipment and materials would be established in the vicinity of the Project within parking facilities, and/or on parcels that would be acquired for the proposed stations and MSF site options. Construction staging areas would be used to store building materials, construction equipment, assemble the TBM, temporary storage of excavated materials, and serve as temporary field offices for the contractor.

2.7 Description of Operations

The operating hours and schedules for Alternatives 1, 2, and 3 would be comparable to the weekday, Saturday and Sunday, and holiday schedules for the Metro L (Gold) Line (effective 2019). It is anticipated that trains would operate every day from 4:00 am to 1:30 am. On weekdays, trains would operate approximately every 5 to 10 minutes during peak hours, every 10 minutes mid-day and until 8:00 pm, and every 15 minutes in the early morning and after 8:00 pm. On weekends, trains would operate every 10 minutes from 9:00 am to 6:30 pm, every 15 minutes from 7:00 am to 9:00 am and from 6:30 pm to 7:30 pm, and every 20 minutes before 7:00 am and after 7:30 pm. These operational headways are consistent with Metro design requirements for future rail services.

2.8 No Project Alternative

The No Project Alternative establishes impacts that would reasonably be expected to occur in the foreseeable future if the Project were not approved. The No Project Alternative would maintain existing transit service through the year 2042. No new transportation infrastructure would be built within the GSA aside from projects currently under construction or funded for construction and operation by 2042 via the 2008 Measure R or 2016 Measure M sales taxes. The No Project Alternative would include highway and transit projects identified for funding in Metro's 2020 Long Range Transportation Plan (LRTP) and Southern California Association of Governments (SCAG) *Connect SoCal 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy* (2020 RTP/SCS). The No Project Alternative includes existing projects from the regional base year (2019) and planned regional projects in operation in the horizon year (2042).

3.0 REGULATORY FRAMEWORK

Federal, state, and local governments all share responsibility for air quality management. The Federal Clean Air Act (CAA) and California Clean Air Act (CCAA) are the primary statutes that establish ambient air quality standards. They establish regulatory authorities to design and enforce air quality regulations.

3.1 Federal

The U.S. Environmental Protection Agency (USEPA) is responsible for implementation of the CAA. The CAA was first enacted in 1955 and was amended in 1963, 1965, 1967, 1970, 1977, and 1990. Under authority granted by the CAA, the USEPA established National Ambient Air Quality Standards (NAAQS) for the following criteria pollutants: carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO₂), ozone (O₃), inhalable particulate matter or particulate matter with an aerodynamic diameter less than or equal to 10 micrometers (PM₁₀), fine particulate matter or particulate matter with an aerodynamic diameter less than or equal to 2.5 micrometers (PM_{2.5}), and sulfur dioxide (SO₂).

Table 3-1 presents the NAAQS for criteria air pollutants. O₃ is a secondary pollutant, meaning that it is formed in the atmosphere from reactions of other precursor compounds under certain conditions. Primary precursor compounds that lead to formation of O₃ include volatile organic compounds (VOC) and nitrogen oxides (NO_x). PM_{2.5} can be emitted directly from sources (e.g., engines) or can form in the atmosphere from other precursor compounds. PM_{2.5} precursor compounds in the South Coast Air Basin (SoCAB) include sulfur oxides (SO_x), NO_x, VOC, and ammonia. **Table 3-2** summarizes the health effects associated with these pollutants.

The CAA specifies dates for achieving compliance with NAAQS and mandates that states submit, implement, and enforce a state implementation plan (SIP) to attain and maintain the NAAQS. SIPs must include pollution control measures and demonstrate how standards will be met. The CAA identifies specific emission reduction goals for areas not meeting NAAQS. The CAA requires a demonstration of reasonable further progress toward attainment and provides additional sanctions for failure to attain or meet interim milestones.

A nonattainment designation means an area does not meet (or that contributes to ambient air quality in a region that does not meet) the NAAQS or California Ambient Air Quality Standards (CAAQS). A maintenance designation means a pollutant was previously in nonattainment but was re-designated as attainment. It indicates measures included in the SIP are intended to ensure that the NAAQS for a pollutant are not exceeded. **Table 3-3** presents the attainment designation and classification, where applicable, for each of the federal criteria air pollutants.

The SoCAB is designated as a federal nonattainment area for O₃, PM_{2.5}, and Pb. Nonattainment designations are classified into levels of severity based on the pollutant concentration levels that determine the mandated attainment date. In 1998, the USEPA designated the SoCAB as an attainment/maintenance area for NO₂ because NO₂ levels in SoCAB dropped below NAAQS in the early 1990s. The USEPA designated SoCAB as a maintenance area for CO in 2007 and PM₁₀ in 2013.

SoCAB was found to attain the 1997 PM_{2.5} NAAQS in 2016; however, SoCAB remains a nonattainment area for the 2006 and 2012 PM_{2.5} NAAQS.¹

Table 3-1. National and California Ambient Air Quality Standards

Pollutant	Averaging Time	CAAQS	NAAQS Primary	NAAQS Secondary
CO	1-Hour	20 ppm (23 mg/m ³)	35 ppm (40 mg/m ³)	NS
	8-Hour	9.0 ppm (10 mg/m ³)	9 ppm (10 mg/m ³)	NS
NO ₂	1-Hour	0.18 ppm (339 µg/m ³)	0.100 ppm (188 µg/m ³)	NS
	Annual	0.030 ppm (57 µg/m ³)	0.053 ppm (100 µg/m ³)	Same as primary
O ₃	1-Hour	0.09 ppm (180 µg/m ³)	NS	NS
	8-Hour	0.070 ppm (137 µg/m ³)	0.070 ppm (137 µg/m ³)	Same as primary
Pb	30-Day Average	1.5 µg/m ³	NS	NS
	Rolling 3-Month Average	NS	0.15 µg/m ³	Same as primary
PM ₁₀	24-Hour	50 µg/m ³	150 µg/m ³	Same as primary
	Annual	20 µg/m ³	NS	NS
PM _{2.5}	24-Hour	No separate State standard	35 µg/m ³	Same as primary
	Annual	12 µg/m ³	12.0 µg/m ³	15 µg/m ³
SO ₂	1-Hour	0.25 ppm (655 µg/m ³)	0.075 ppm (196 µg/m ³)	NS
	3-Hour	NS	NS	0.5 ppm (1,300 µg/m ³)
	24-Hour	0.04 ppm (105 µg/m ³)	NS	NS

Source: California Air Resources Board (CARB), 2016.

Key:

µg/m³ = micrograms per cubic meter; CAAQS = California Ambient Air Quality Standard; CO = carbon monoxide; mg/m³ = milligrams per cubic meter; NAAQS = National Ambient Air Quality Standard; NO₂ = nitrogen dioxide; NS = no standard; O₃ = ozone; Pb = lead; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; ppm = parts per million; SO₂ = sulfur dioxide

¹ Monitoring data currently shows that the SoCAB attained both the 1997 and 2006 24-hour PM_{2.5} NAAQS. The SCAQMD is currently in the process of requesting redesignation to maintenance for these standards (CARB, 2021a).

Table 3-2. Characteristics and Health Effects of Criteria Pollutants

Pollutant	Characteristics	Health Effects	Major Sources
CO	Odorless, colorless gas that is highly toxic. Formed by the incomplete combustion of fuels.	<ul style="list-style-type: none"> • Impairment of oxygen transport in the bloodstream. • Aggravation of cardiovascular disease. • Fatigue, headache, dizziness. 	Automobile exhaust, combustion of fuels, and combustion of wood in woodstoves and fireplaces.
NO ₂	Reddish-brown gas formed during combustion.	<ul style="list-style-type: none"> • Increased risk of acute and chronic respiratory disease. 	Automobile and diesel truck exhaust, industrial processes, and fossil-fueled power plants.
O ₃	A highly reactive photochemical pollutant created by the action of sunlight on ozone precursors (VOC and NO _x).	<ul style="list-style-type: none"> • Eye irritation. • Respiratory function impairment. 	Combustion sources, such as factories and automobiles, and evaporation of solvents and fuels.
PM ₁₀ and PM _{2.5}	Small particles that measure 10 microns or less are termed PM ₁₀ (fine particles less than 2.5 microns are PM _{2.5}). Solid and liquid particles of dust, soot, aerosols, smoke, ash, and pollen and other matter that are small enough to remain suspended in the air for a long period.	<ul style="list-style-type: none"> • Aggravation of chronic disease and heart/lung disease symptoms. 	Combustion of gasoline, oil, diesel fuel, or wood. Dust from construction sites, landfills and agriculture, wildfires and brush/waste burning, industrial sources, wind-blown dust from open lands, pollen, and fragments of bacteria.
SO ₂	Colorless gas with a pungent odor.	<ul style="list-style-type: none"> • Increased risk of acute and chronic respiratory disease. 	Motor vehicles, locomotives, ships, and off-diesel equipment that are operated with fuels that contain high levels of sulfur.

Source: CARB, 2021b; CARB, 2021c; Metro, 2014.

Key:

CO = carbon monoxide; NO₂ = nitrogen dioxide; NO_x = nitrogen oxides; O₃ = ozone; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; VOC = volatile organic compound

Table 3-3. Federal and State Attainment Status

Pollutant	Federal (NAAQS) Status	State (CAAQS) Status
CO	Maintenance	Attainment
NO ₂	Maintenance	Attainment
O ₃	Nonattainment, Extreme	Nonattainment
Pb	Nonattainment ¹	Attainment
PM ₁₀	Maintenance	Nonattainment
PM _{2.5}	Nonattainment ^{2,3}	Nonattainment
SO ₂	Attainment	Attainment

Source: CARB, 2020; USEPA, 2019a.

Notes:

¹ Only the Los Angeles portion of the SoCAB is considered nonattainment for Pb. All other portions of the SoCAB are in attainment of the Pb NAAQS.

² Classified as moderate nonattainment under the 2012 PM_{2.5} NAAQS, serious nonattainment under the 2006 PM_{2.5} NAAQS, and attainment under the 1997 PM_{2.5} NAAQS.

³ While currently designated a nonattainment area for the 1997 and 2006 PM_{2.5} NAAQS, the SCAQMD is in the process of requesting redesignation to maintenance (CARB, 2021a).

Key:

CO = carbon monoxide; NO₂ = nitrogen dioxide; O₃ = ozone; Pb = lead; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide

3.2 State

The CCAA, signed into law in 1988, requires all areas of the state to achieve and maintain the CAAQS by the earliest practicable date. CAAQS are at least as stringent as, and often more stringent than, NAAQS. **Table 3-1** lists currently applicable CAAQS and NAAQS. Attainment status for each pollutant with regard to CAAQS is presented in **Table 3-3**.

The California Air Resources Board (CARB) has jurisdiction over a number of air pollutant emission sources in the state. Specifically, CARB can develop emission standards for stationary sources, as well as on-road motor vehicles (when USEPA grants them a waiver to do so) and some off-road mobile sources. CARB has delegated authority to regional air pollution control and air quality management districts to develop stationary source emission standards, issue air quality permits, and enforce permit conditions.

CARB adopted the Innovative Clean Transit Regulation in December 2018, which requires all public transit agencies to gradually transition to a 100 percent zero-emission bus (ZEB) fleet. By 2019, 100 percent of new purchases by transit agencies were required to be ZEBs, with a goal of fully transitioning all fleets by 2040. The regulation applies to all transit agencies that own, operate, or lease buses with a gross vehicle weight rating greater than 14,000 pounds and includes standard, articulated, over-the-road, double-decker, and cutaway bus types.

3.3 Regional

3.3.1 Southern California Association of Governments

Under conformity regulations of the CAA, SCAG is the metropolitan planning organization responsible for coordinating the development of transportation infrastructure in a six-county region of Southern California (Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura). This ensures that air quality objectives are included with transportation goals in regional transportation plans. SCAG predicts population and business growth in the region.

SCAG estimates future demand for traffic, seaports, airports, and heavy and light rail infrastructure. From the demand estimates, SCAG develops a Regional Transportation Plan (RTP) and Federal Transportation Improvement Program (FTIP) to guide transportation growth and infrastructure development. The FTIP and RTP consider air quality requirements in the region. The FTIP is typically updated every two years. SCAG updates its forecasts and RTP approximately every four years. The most recently adopted RTP was the 2020 RTP/SCS, which was approved and fully adopted by the SCAG Regional Council on September 3, 2020.

As noted above, CARB has delegated to regional air pollution control and air quality management districts, which for the project area is the South Coast Air Quality Management District (SCAQMD). SCAQMD uses SCAG's forecasts for VMT, as well as activities predicted for seaports, airports, and rail, as well as stationary source to develop updates to Air Quality Management Plans (AQMPs) discussed below.

The SCAQMD has jurisdiction over an area of 10,743 square miles consisting of Orange County, the non-desert portions of Los Angeles, Riverside and San Bernardino Counties, and the Riverside County portion of the Salton Sea Air Basin and Mojave Desert Air Basin. The SoCAB is a sub-region within SCAQMD's jurisdiction that covers an area of 6,745 square miles and encompasses all of Orange County and non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The DSA is located within the Los Angeles sub-area of the SoCAB. While air quality in this area has improved in recent years, activity in the basin requires more regulation to meet ambient air quality standards.

The SCAQMD has adopted a series of AQMPs to meet CAAQS and NAAQS. These plans mandate control technology for existing sources, control programs for area sources and indirect sources, a permitting system designed to ensure no net increase in emissions from any new or modified permitted sources of emissions, transportation control measures, sufficient control strategies to achieve a five percent or more annual reduction in emissions (or 15 percent or more in a three-year period) for VOC, NO_x, CO, and PM₁₀, and demonstration of compliance with CARB's established reporting periods for compliance with air quality goals.

The current, USEPA-approved SIPs for each federal nonattainment or maintenance pollutant in the SoCAB are summarized below:

- CO – 2005 maintenance plan and request for re-designation to attainment status, approved by USEPA on May 11, 2007 (72 Federal Register [FR] 26718)

- NO₂ – SIP approved by USEPA on July 24, 1998 (63 FR 39747), based on the 1997 AQMP. In this SIP approval, USEPA also re-designated the SoCAB from nonattainment to attainment/maintenance for NO₂.
- O₃ – SCAQMD 2016 AQMP and 2018 amendments, approved by USEPA on October 31, 2019 (84 FR 52005)
- Pb – 2012 Pb SIP, approved by USEPA on April 11, 2014 (79 FR 13875)
- PM₁₀ – 2009 maintenance plan and request for re-designation to attainment status, approved by USEPA on July 26, 2013 (78 FR 38223)²
- PM_{2.5} – SCAQMD 2016 AQMP, approved by USEPA on February 12, 2019 (84 FR 3305)³

On March 3, 2017, SCAQMD adopted a comprehensive update, the SCAQMD 2016 AQMP for the SoCAB. The SCAQMD 2016 AQMP outlines air pollution control measures needed to meet federal O₃ and PM_{2.5} standards. The SCAQMD 2016 AQMP was approved by CARB and submitted to USEPA for its final approval on April 27, 2017. An amendment revising the 1-hour O₃ implementation plan was submitted on December 20, 2018, and the AQMP was approved by the USEPA on February 12, 2019. The SCAQMD is currently in the process of preparing the 2022 AQMP (SCAQMD 2021).

3.3.2 South Coast Air Quality Management District

SCAQMD is the agency principally responsible for comprehensive air pollution control in the SoCAB. To that end, the SCAQMD works directly with SCAG, county transportation commissions, and local governments, and cooperates with state and federal government agencies. The SCAQMD develops rules and regulations, establishes permitting requirements, inspects emissions sources, and enforces such measures through educational programs or fines, when necessary. In coordination with CARB and SCAG, SCAQMD also prepares and implements the AQMPs, which is used by CARB in SIP development. Relevant rules and regulations that are applicable to the Project for this air quality analysis include Rule 402 and Rule 403 described below.

3.3.2.1 Rule 402 – Nuisance

Rule 402 prohibits the discharge of air contaminants that cause injury, detriment, nuisance, or annoyance to the public. The Project would not be likely to cause the discharge of air contaminants that cause injury, detriment, nuisance, or annoyance to the public. Therefore, the proposed project will operate in compliance with Rule 402.

² The 2021 PM₁₀ Maintenance Plan for the South Coast Air Basin (SoCAB) was submitted to the USEPA for approval on July 22, 2021 (CARB 2021e).

³ The 2021 PM_{2.5} Redesignation Request and Maintenance Plan was submitted to the SCAQMD for approval on November 5, 2021, and CARB will consider it for adoption on December 9, 2021 (CARB 2021f).

3.3.2.2 Rule 403—Fugitive Dust

This rule prohibits emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area that remains visible beyond the emission source property line. During proposed construction, best available control measures identified in the rule would be required to minimize fugitive dust emissions from proposed earth-moving and grading activities. These measures would include site watering as necessary to maintain sufficient soil moisture content. Additional requirements apply to construction projects on property with 50 or more acres of disturbed surface area, or for any earth-moving operation with a daily earth-moving or throughput volume of 5,000 cubic yards or more three times during the most recent 365-day period. These requirements include submitting a dust control plan, maintaining dust control records, and designating a SCAQMD-certified dust control supervisor.

3.4 Local

3.4.1 Los Angeles County 2035 General Plan

The Los Angeles County 2035 General Plan, county-wide air quality element outlines policies aimed at improving air quality in the SoCAB, which includes the majority of Los Angeles County. Applicable goals and policies include, but are not limited to, reducing air pollution and emissions through coordinated land use, transportation, and air quality planning, and reducing emissions and fugitive dust from construction activities through implementation of BMPs. One sub element, the Community Climate Action Plan, supplements the Air Quality Element. This plan establishes actions for reaching the County's goals to reduce greenhouse gas (GHG) emissions in the unincorporated areas, including East Los Angeles and West Whittier-Los Nietos.

3.4.2 Los Angeles Metropolitan Transportation Authority

3.4.2.1 Countywide Sustainability Planning Policy

Metro's *Countywide Sustainability Planning Policy* (Metro 2012) is intended to define outcomes and establish measurements related to developing a Sustainable Regional Transportation System. Metro's policy establishes principles and priorities related to key social, economic, and environmental dimensions of sustainability. Broad principles include connecting people and places, creating community value, and conserving resources. Over time, these principles and priorities will be embedded in transportation planning process to 1) align and optimize transportation strategies toward a common vision of sustainability; 2) evaluate proposals for funding programs; 3) inspire project design, creativity, innovation; and 4) guide and communicate sustainability performance.

3.4.2.2 Climate Action and Adaptation Plan

In 2019, Metro published the *Metro Climate Action and Adaptation Plan* (Metro 2019), building on Metro's existing commitments to environmental sustainability and stewardship and establishing a framework to reduce GHG emissions. The plan identifies the actions Metro is currently taking to combat climate change and its effects through two broad strategies: 1) Reducing Metro's GHG emissions, which contribute to climate change, and 2) Making the Metro system more resilient to extreme weather events and long-term climate impacts. The plan forecasts vehicular emissions, discusses actions that can be taken to mitigate those emissions, and identifies Metro services most likely to be affected by climate impacts. In this plan, Metro committed to reducing its GHG emissions by 79 percent relative to 2017 levels by 2030 and 100 percent (i.e., zero emissions) by 2050.

3.4.2.3 Moving Beyond Sustainability Plan

The *Moving Beyond Sustainability* (MBS) plan (Metro 2020), outlines a comprehensive sustainability strategy that incorporates aspects of emissions and pollution control. Specific targets listed in the plan include:

- Displace 903,000 metric tons of carbon dioxide equivalent annually
- Reduce total GHG emissions by 79 percent from the 2017 baseline, as discussed in the Climate Action and Adaptation Plan
- Reduce total NOx emissions 54 percent from 2018 baseline
- Reduce total PM emissions 62 percent from 2018 baseline

3.4.2.4 Construction Demolition Debris Recycling and Reuse Policy

Metro's *Construction Demolition Debris Recycling and Reuse Policy* (Metro 2007) requires Metro to give preference to recyclable and recycled products in the selection of construction materials to the maximum extent feasible during design and construction of Metro or Metro-funded capital projects. Selected materials used in the construction of all structures related to transportation projects should not adversely affect the performance, safety or the environment of the transportation system for which the material is used.

3.4.2.5 Green Construction Policy

In Metro's *Green Construction Policy* (Metro 2011), Metro committed to using greener, less polluting construction equipment and vehicles on all Metro construction projects performed on Metro properties and rights-of-way than the statewide fleet average. This policy, revised in 2017, requires the use of renewable diesel fuel for projects where on-site bulk fuel storage is necessary. This measure would reduce GHG emissions and is a Metro policy. Thus, it is required for the Project.

3.4.3 City of Commerce

The *City of Commerce 2020 General Plan Air Quality Element* aims to improve air quality within the region through implementation of applicable plans and regulations (City of Commerce 2008). The element includes policies related to improving air quality as well as programs that help to implement these policies. Additionally, the Air Quality Plan presented in this element outlines the strategies that will protect public health from airborne emissions. The following policies are relevant to the Project:

- Air Quality Policy 2.7. The city of Commerce will promote mass transit ridership through careful planning of routes, headways, origins and destinations, and types of vehicles.
- Air Quality Policy 2.11. The city of Commerce will collaborate with local transit agencies to develop programs and educate employers about employee rideshare and transit.
- Air Quality Policy 3.2. The city of Commerce will support the development of alternative fuel infrastructure that is publicly accessible.
- Air Quality Policy 4.1. The city of Commerce will synchronize traffic signals throughout the city and with adjoining cities and counties while allowing free flow of mass transit systems.
- Air Quality Policy 4.6. The city of Commerce will work with local transit providers to incorporate best design practices for transit into new development projects.

3.4.4 City of Montebello

The *Montebello 1973 General Plan* was adopted in 1973 and was intended to guide development for 20 years. As the city is built beyond the life of the general plan, Montebello is currently in the process of updating the plan. The Montebello 1973 General Plan includes policies related to air quality in its Conservation Element (City of Montebello 1975). The following policies apply:

- Strict, yet reasonable, legislation and enforcement should be provided regarding emission and air quality standards.
- Use of public transit systems should be encouraged.

3.4.5 City of Pico Rivera

The *Pico Rivera General Plan (2014) Environmental Resources Element* addresses the long-term management of Pico Rivera's environmental resources, including air quality (City of Pico Rivera 2014). The element includes variety of policies to improve air quality. Relevant policies include:

- Policy 8.2-3 Construction Emissions. Require new development projects to incorporate feasible measures that reduce emissions from construction, grading, excavation, and demolition activities to avoid, minimize, and/or offset their impacts consistent with South Coast Air Quality Management District requirements.

- Policy 8.2-4 Operational Emissions. Require new development projects to incorporate feasible measures that reduce operational emissions through project and site design and use of best management practices to avoid, minimize, and/or offset their impacts consistent with South Coast Air Quality Management District requirements.
- Policy 8.2-14 Transit Vehicles. Encourage and work with local and regional transit providers to use transit vehicles and facilities that are powered by alternative fuels and are low emissions.

3.4.6 City of Santa Fe Springs

The city of Santa Fe Springs's *Re-Imagine Santa Fe Springs 2040 General Plan* addresses goals and policies related to air quality in the Conservation and Open Space Elements of the city's general plan (City of Santa Fe Springs 2021). Applicable polices are outlined below.

- Policy COS-9.1: Land Use and Transportation. Allow urban infill and transit-oriented communities within walking distance (10-minute walk or half-mile distance) of transit stops and stations to reduce vehicle trips and trip lengths.
- Policy COS-9.4: Minimize Air Quality Impacts. Minimize the air quality impacts of new development projects on established uses and nearby sensitive receptors.

3.4.7 City of Whittier

The city of Whittier's *Envision Whittier General Plan* Resource Management Element promotes the protection of natural resources, including air quality (City of Whittier 2021). The following policies are applicable to operation and construction of the Build Alternatives:

- RM-3.1: Reduce emissions generated by motorized vehicles.
- RM-3.2: Reduce energy use in municipal and construction projects.
- RM-3.3: Support the use of energy-efficient design and renewable energy technologies in public and private spaces and development projects.

4.0 METHODOLOGY

This section describes the methodology and assumptions for analysis of potential impacts to air quality and assessment of health risks. Construction projects may impact air quality through emissions from construction equipment or the generation of dust. Conversely, the operation of mass transit systems may benefit air quality through reductions in the number of vehicles operating in an area.

4.1 Operational Emissions

Operational emissions include emissions related to the operation of public highway vehicles, Project parking facilities, and a Project MSF site option. For each of these emission sources under 2042 without Project Conditions and the Build Alternatives, emissions were quantified so that the Project's benefits or impacts could be evaluated against 2042 without Project Conditions. As detailed below, operation of proposed stations or the LRVs would not be expected to result in direct criteria pollutant emissions in the DSA.

Regional traffic emissions were calculated from projected VMT for each of the Project alternatives. This analysis used the current USEPA-approved version of the California Emission Factor Model for On-road Motor Vehicles (EMFAC) model⁴ to develop emission factors used to calculate highway traffic emissions. The model was queried to determine the appropriate emission factors for the Los Angeles sub-area of the SoCAB, the model region most representative of the DSA. The model generates emission factors for a variety of vehicle classes, representing different types of on-road vehicles that operate in the region, including passenger cars, buses, delivery trucks, heavy duty diesel trucks, motorcycles, and recreational vehicles. EMFAC was also used to describe the highway fleet mix (relative ratio of VMT travel in the region for each vehicle class) for the SoCAB in each year of the analysis. Aggregate highway-vehicle emission factors for each pollutant were determined by weighting the EMFAC default emission factors for each vehicle class using the fleet mix. The emission factors queried were for an average vehicle speed of 35 miles per hour for the existing conditions (2019)⁵ analysis, and an average vehicle speed of 30 miles per hour for the future conditions (2042).⁶

The Project would include the addition of parking facilities to accommodate passengers at several of the proposed stations. Project-related parking would result in a new source of VOC emissions from evaporative leaks from parked vehicle fuel tanks. Evaporative emissions from vehicles left in the parking facilities throughout the day were estimated using EMFAC reactive organic gases (ROG)⁷ emission factors for the Los Angeles sub-area of the SoCAB. Similar to the determination of highway traffic emission factors, the EMFAC model was queried to generate evaporative ROG emission factors for the vehicle classes most representative of those vehicles which would utilize the Project parking facilities (light-duty automobiles and trucks), and those factors were weighted using the regional VMT-based fleet mix for those vehicle classes, resulting in an aggregated evaporative ROG emission factor. It was estimated that each Project parking space would be occupied, and thus contribute to

⁴ While EMFAC2021 is the current version of the EMFAC model (released in April 2021), EMFAC2017 is the most recent version of the model approved by the USEPA. Therefore, EMFAC2017 was used in the analysis (CARB 2021g).

⁵ As described in Section 3.14, Transportation and Traffic, the base year data in Metro's regional travel demand forecasting model (the Corridor Based Model 2018 [CBM18]) is from 2017 and represents the data that was most recently available when the model was created in 2018. This data has been used to represent 2019, the base year in this study.

⁶ The traffic data provided for the study indicated slightly different speeds in 2017 versus other years; therefore, the emission factors differ between the years of analysis (CDM Smith/AECOM JV 2019).

⁷ The definitions of VOC and ROG are essentially the same and are used interchangeably in this analysis.

evaporative Project ROG emissions, for 10-hours each day. Additional parking facility maintenance activities, such as lot restriping, would also result in ROG emissions. These emissions were estimated using default model parameters for the “parking lot” land use type of the California Emission Estimator Model (CalEEMod) version 2020.4.0. Additional necessary modeling parameters for the parking facilities include the region (Los Angeles sub-area of the SoCAB), the climate zone (9), utility (Southern California Edison), and the count of spaces assumed for each facility. The stations that would have new Project parking facilities and the number of spaces assumed in this analysis are presented below:

- Greenwood – approximately 220 parking spaces located in a surface facility near the intersection of Greenwood Avenue and Washington Boulevard
- Rosemead – approximately 220 parking spaces located in a surface facility near the intersection of Rosemead and Washington Boulevards
- Norwalk – approximately 295 parking spaces located in a surface facility near the intersection of Norwalk and Washington Boulevards
- Lambert – approximately 645 parking spaces located in a surface facility near the intersection of Lambert Road and Washington Boulevard

Emissions from powering the electric LRT vehicles or lighting the proposed stations were not assumed to occur locally and therefore, were not estimated. Maintenance activities for the proposed stations would not be expected to result in material criteria pollutant emissions.

Operation of either of the Project MSF site options would result in criteria pollutant emissions from combustion of natural gas for comfort heating and from structure and LRT maintenance and upkeep activities. These emissions were quantified using default model parameters for the “warehouse with rail” land use type of the CalEEMod with the following modeling parameters: region (Los Angeles sub-area of the SoCAB), climate zone (9), utility (Southern California Edison), and size (approximately 177,000 square feet based on the conceptual engineering drawings).

4.2 CO Hot Spots

A project has the potential to result in one or more CO hot spots (high localized ambient concentrations) when project emissions occur at higher rates in small or constricted areas. For the Project, traffic volumes at major intersections represent the only emission source which could result in CO hot spots.

The 2017 Bay Area Air Quality Management District (BAAQMD) CEQA Guidelines indicate that CO hot spots would not occur at intersections servicing fewer than 44,000 vehicles per hour, or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway).⁸ This updated screening criteria was used for the CO hot spot analysis. Traffic volumes at Project intersections are

⁸ Neither Metro nor the SCAQMD have developed screening criteria for the evaluation of CO hot spots impacts associated with vehicle traffic. Section 14 CCR § 15064.7 (c) of the State CEQA Guidelines states that lead agencies may consider the adopted or recommended thresholds of other public agencies in the consideration of thresholds of significance. The BAAQMD screening criteria directly relates potential CO hot spots impact levels to changes in traffic quantities and is the most applicable promulgated criteria for evaluating CO hot spots for the Project.

based on detailed traffic modeling conducted for the transportation analysis (see the Eastside Transit Corridor Phase 2 Transportation and Traffic Impacts Report).

4.3 Construction Emissions

Construction emissions were estimated for all components of each Build Alternative, including construction of stations and parking facilities, rail lines, and the MSF. Emissions from construction of the Project were estimated from the methods developed by the SCAQMD in its 1993 *CEQA Air Quality Handbook* (Handbook), except as noted below. Fugitive dust and engine exhaust emissions were characterized into the following main categories:

- Architectural coatings
- Demolition and site clearing
- Grading and excavation
- Heavy-duty equipment on unpaved areas
- Loading/unloading of trucks
- Paving activities
- Paved road dust (haul/delivery trucks)
- Vehicle trips (including construction worker commuting and haul/delivery trucks)

Although the Handbook methodology was used to estimate emissions, several emission factors and calculation methods in the Handbook are outdated; thus, the analysis used the current USEPA-approved version of the CARB EMFAC model, which is also incorporated in the current version of CalEEMod (2020.4.0), to generate on-road emission factors instead of the on-road mobile source emission factors in the Handbook. The CARB OFFROAD model emission factors, incorporated in the current version of CalEEMod, were used to generate off-road emission factors instead of the off-road mobile source emission factors in the Handbook. The analysis used factors developed for the current version of CalEEMod to update the fugitive construction dust and architectural coating emission factors identified in the Handbook.

Emission reductions associated with applicable rules and regulations, such as a 66 percent reduction in fugitive dust associated with site watering as required by SCAQMD Rule 403, were also incorporated into the analysis.

The Project was modeled using CalEEMod with the alignment subdivided into smaller components which were modeled individually. The emissions associated with overlapping components of Project construction were added together to determine total peak project emissions. General Project component information, such as approximate construction durations and equipment requirements are presented in Table 3-1 of the Eastside Transit Corridor Phase 2 Construction Impacts Report. Additional general details, including project scheduling and activity assumptions, are consistent with those presented in the Eastside Transit Corridor Phase 2 Construction Impacts Report and are

included throughout **Attachment A**. The following key details were assumed in the development of the construction air quality analysis:

- CalEEMod modeling parameters for the region (Los Angeles sub-area of the SoCAB) and climate zone (9) applicable to the DSA, were used throughout construction. Although CalEEMod does not have land use categories which directly correspond to an MSF, LRT guideway, or other Project elements, surrogate land uses were used as detailed in the CalEEMod Construction References section of **Attachment A**.
- Construction for the underground segment of the alignment would follow the operation of the TBM, which would progress at a rate of 30 feet per day.
- Construction of aerial and at-grade segments of the alignment would occur in segments that would be 0.5 miles or 1 mile or shorter in length, respectively.
- While construction of alignment segments would not generally overlap, some overlap would be expected and thus overlap was assumed in this analysis.
- Stations would generally be built simultaneously with the guideway as guideway construction reaches the station area.
- Construction phasing would generally start with demolition and site clearing, followed by utility relocation and temporary roadway reconfiguration before moving on to project construction. Any OCS, TPSS, train control, or other additional installation activities would follow with station art, other ancillary facilities, and street improvements completed last.
- Project construction would typically occur during single 8-hour daytime shifts, although certain elements may require nighttime work instead of, or in addition to, typical activities.
- Vendor trip distances, vendor daily trip counts, worker trip distances, and worker trip counts were each estimated based on CalEEMod default values for construction of the applicable land use. Haul route distances were based on the average distance from the Project alignment to applicable construction landfills (Puente Hills, Monterey Park, Scholl Canyon, NuWay, and Savage Canyon) and haul routes were based on CalEEMod default values based on the footprint of demolished structures and excavated volumes modeled.
- Excavated volumes and demolished structure footprints were estimated based on Project-specific site conceptual drawing details and satellite imagery from Google Earth Pro. Haul trip counts were estimated from these quantities using CalEEMod default trip generation factors (0.37 cubic yard of waste per square foot of demolition and 20 cubic yards capacity per haul truck).
- While worker, hauling, and vendor trip counts were estimated on a per-segment level for the air quality analysis, the overall Project trip counts are generally consistent with those presented in the Eastside Transit Corridor Phase 2 Construction Impacts Report.

4.4 Health Risk Assessment

CEQA analysis typically includes a Health Risk Assessment (HRA) for sensitive receptors (e.g., residents, workers, school children) near the Project that are likely to be exposed to toxic air contaminants (TAC) emitted from Project activities. Most TAC are categorized as organic (primarily volatile) or inorganic (primarily particulate) emissions. Therefore, emissions of TAC are typically calculated by applying chemical-specific mass fractions (also called speciation profiles) to the total organic gases (TOG) or PM₁₀ emission rates calculated for criteria pollutant emission inventories.

CARB developed speciation profiles (CARB 2021d) for a variety of sources, including diesel and gasoline motor vehicles, off-road diesel and gasoline mobile equipment, paved road dust, construction dust, and architectural coatings. These speciation profiles were used with projected TOG and PM₁₀ emission levels to determine TAC emissions for each Build Alternative.

Although not applicable to this air quality analysis, SCAQMD Rule 1401, which limits the health risk implications of newly permitted facilities or air emission units in SCAQMD's jurisdiction, was used to identify the primary TAC of concern to be evaluated for health risk impacts. Thirty-four TAC were identified from the speciation profiles for mobile emission sources. Several common TAC from mobile sources include benzene, 1,3-butadiene, formaldehyde, acrolein, and diesel particulate matter (DPM). This analysis calculated speciated emissions for exhaust, evaporation, tire wear, brake wear, paved road dust, construction dust, and architectural coatings.

Where operational TAC emissions would decrease as a result of project implementation, human health hazards would decrease, and no assessment would be required. Construction of a Build Alternative would always result in short-term emissions of TAC relative to existing conditions. These short-term construction TAC emissions were analyzed to determine risk impacts to sensitive receptors nearby. Sensitive receptors in the DSA include residences and locations where the elderly, children, or other groups with a greater susceptibility to adverse health effects could be located, such as schools, hospitals, convalescent homes, parks, and daycare centers. A list of sensitive receptors in the DSA is provided in **Table 6-1** in **Section 6.2**. The SCAQMD has developed a tiered approach to assess risk from exposure to TAC (SCAQMD 2017a and SCAQMD 2017b). The Tier 2 analysis approach (a series of lookup tables with additional project-specific parameters) was applied to the construction phase to determine if human health impacts may be significant.

4.4.1 Area of Potential Impact

The area of potential impact must be sufficiently large to identify the location of the maximum exposed individual for health risk purposes. The zone of impact normally encompasses the area where a person would be subject to an added lifetime cancer risk of 10 in 1 million or greater ($\geq 10.0 \times 10^{-6}$). However, because the Project is expected to have a long-term regional beneficial impact on air quality and inhalation health risk, the area of potential impact was limited to the DSA, which would be most affected by temporary Project construction. As discussed in **Section 4.3**, Construction of the aerial alignment would occur in segments approximately 0.5-miles in length and construction of the at-grade alignment would occur in segments approximately 1-mile in length. Tunnel boring would occur at a minimum rate of approximately 30 feet per day. For the evaluation of construction human health risk impacts, emissions from on-site construction activities anticipated to occur were quantified for each active construction segment. Since these emissions would be distributed within the (minimum 0.5-

mile) active construction segment, a 0.25-mile receptor distance was used as the halfway portion for a given receptor's exposure to construction activities within the active segment. A portion of emissions from haul trucks, delivery trucks, and construction worker vehicle trips were also included to account for the localized portion of emissions from vehicle operations from the construction site to trip ends (landfills, material source locations, or worker homes).

5.0 THRESHOLDS OF SIGNIFICANCE

5.1 CEQA Guidelines Appendix G

In accordance with Appendix G of the State CEQA Guidelines, a Build Alternative would have a significant impact related to Air Quality if it would:

Impact AQ-1: Conflict with or obstruct implementation of the applicable air quality plan.

Impact AQ-2: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard.

Impact AQ-3: Expose sensitive receptors to substantial pollutant concentrations.

Impact AQ-4: Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Additionally, although not explicitly listed in Appendix G of the State CEQA Guidelines, in compliance with CEQA, a Build Alternative would have a significant impact related to Human Health if it would:

Impact HR-1: Expose sensitive receptors to TAC that would be likely to cause a substantial increase in human health risks.

5.2 SCAQMD Thresholds

The SCAQMD is the agency given primary responsibility for developing plans, programs, rules and regulations that will improve the air quality in the SoCAB. The SCAQMD published CEQA significance thresholds for analyzing the significance of project air quality impacts in the *CEQA Air Quality Handbook* (SCAQMD 1993). Regular updates are published on the SCAQMD website (SCAQMD 2019).

The SCAQMD has developed quantitative CEQA significance thresholds for regional criteria air pollutant emissions (relating to Impact AQ-2), localized criteria air pollutant emissions (relating to Impact AQ-3), and localized TAC emissions (relating to Impact HR-1). Each set of thresholds is described below.

5.2.1 Regional Criteria Pollutant Emissions Thresholds

The SCAQMD developed quantitative significance thresholds for mass daily regional emissions of criteria pollutants for both construction and operational sources. These thresholds are summarized in **Table 5-1**.

Table 5-1. SCAQMD Mass Daily Thresholds

Pollutant	Construction	Operation
CO	550 lbs/day	550 lbs/day
NO _x	100 lbs/day	55 lbs/day
Pb	3 lbs/day	3 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
SO _x	150 lbs/day	150 lbs/day
VOC	75 lbs/day	55 lbs/day

Source: SCAQMD, 2019.

Key:

CO = carbon monoxide; lbs/day = pounds per day; NO_x = nitrogen oxides; Pb = lead; PM₁₀ = fine particulate matter; PM_{2.5} = fine particulate matter; SO_x = sulfur oxides; VOC = volatile organic compound

Typically, in a CEQA analysis, project-related impacts are compared to existing (without project) conditions. However, pursuant to CEQA Guidelines Section 15125(a)(2), a lead agency has the discretion to exclusively use a future conditions baseline for the purposes of determination of significance under CEQA in instances where using an existing conditions baseline would be misleading or without informational value. Use of an existing conditions baseline would be misleading for the Project because it would ignore the regional background growth in population, traffic, and transportation infrastructure that would occur between the existing conditions baseline year of 2019 and the future conditions (i.e., the 2019 existing conditions will be substantially altered by regional growth that will occur independent of the Project, which, in turn, would mask the impacts that are attributable to the Project and would not provide the reader with an accurate and meaningful delineation of Project-related impacts). Considering such growth is critical when determining future effects for transit projects designed to reduce traffic congestion and associated air quality impacts over time. Isolating the Project's impacts from ancillary changes in the environment would result in a misleading analysis.

Therefore, for quantification of air pollutant emissions, Project emissions are defined as the difference between a Project alternative (2042) and the existing conditions in 2019 adjusted for regional growth that would occur by 2042, pursuant to Section 15125(a)(1)(2) of the State CEQA Guidelines that provides for the use of a projected future conditions (beyond the date of project operations) baseline. For the Project, this "projected future conditions baseline" is 2042 without Project Conditions. The horizon year (2042) of the regional travel demand Corridor Based Model 2018 (CMB18), which incorporates Metro Measure M projects identified in the Measure M Expenditure Plan, roadway improvements, and other transit improvements anticipated to occur throughout the transit corridor, was selected as the Project design year. Use of this 2042 design year represents a characterization of the holistic, long-term benefits of the Project as transit-oriented development expands within the GSA and throughout the region. Additionally, although the Project is projected to open in 2035, emission factors for highway vehicles (the preeminent emission source affected by this project) decrease as engine technology improves and vehicle manufacturers meet more stringent state and federal engine emission and efficiency standards. Since all alternatives would reduce VMT associated with highway traffic as compared to 2042 without Project Conditions, the use of 2042 highway traffic emission rates would result in fewer criteria pollutant reductions from this emission source as compared to the reductions which might be achieved using 2035 factors. Therefore, evaluation of Project impacts during the 2042 design year would conservatively evaluate the impacts of operations. Project

emissions greater than thresholds for a given air pollutant would be considered significant under CEQA.

5.2.2 Localized Significance Thresholds

The SCAQMD developed quantitative thresholds to evaluate local air quality impacts from construction and operational activity (SCAQMD 2008 and SCAQMD 2006). These localized significance thresholds (LSTs) are only applicable to the following criteria pollutants: NO_x, CO, PM₁₀, and PM_{2.5}. LSTs are analogous to CAAQS (pollutant levels below LSTs would not be expected to violate the CAAQS). LSTs consider ambient concentrations of pollutants for a given source receptor area and the distance from the project site to the nearest sensitive receptor. For PM₁₀, LSTs were based on SCAQMD Rule 403 – Fugitive Dust.

As described in **Section 3.3.1**, the DSA is located within the SoCAB, which is further divided into 38 Source-Receptor Areas (SRAs); the DSA predominantly falls within the Southeast Los Angeles County SRA. LST emission tables have been developed for project sizes up to five acres. Most construction sites could be partitioned into active areas that are less than or equal to five acres in size. **Table 5-2** summarizes the allowable construction emissions for a project located in the Southeast Los Angeles County SRA. Since the Project will be located in close proximity to other receptors, the closest receptors were assumed to be within 25 meters (82 feet) of the construction site boundaries, the minimum distance provided in the LST guidance.

Table 5-2. Allowable Construction Emissions for Source-Receptor Area¹ for a 5-Acre Site at 25-Meter (82-Foot) Receptor Distance from Site Boundary

Pollutant	Localized Significance Threshold (lbs/day)	
	Project Construction Site Size	
	Southeast Los Angeles County SRA	
CO ²	1,480	
NO _x ²	172	
PM ₁₀ (Operation)	4	
PM ₁₀ (Construction)	14	
PM _{2.5} (Operation)	2	
PM _{2.5} (Construction)	7	

Source: SCAQMD, 2008.

Notes:

¹ Southeast Los Angeles County SRA was used to evaluate each project alternative.

² Threshold is applicable to both construction and operation.

Key:

CO = carbon monoxide; lbs/day = pounds per day; NO_x = oxides of nitrogen; PM₁₀ = inhalable particulate matter; M_{2.5} = fine particulate matter

5.2.3 TAC Health Risk Thresholds

The SCAQMD has established thresholds of significance for both carcinogenic and non-carcinogenic TAC exposure. A significant adverse health risk impact would occur if a project alternative would result in a:

- Maximum Individual Cancer Risk (MICR) ≥ 10 in 1 million, or
- Hazard Index (HI) ≥ 1.0 (for either chronic or acute exposure).

Both MICR and HI are typically evaluated based on the difference between the future with project health risk and baseline existing conditions health risk. However, as detailed in **Section 5.2.1**, for the purpose of evaluating incremental Project impacts for this CEQA analysis, a projected future conditions baseline (2042 without Project Conditions) is used. Therefore, for this analysis, the project increment is defined as the difference in health risk between the Project and the 2042 without Project Conditions risk levels.

Although MICR and HI criteria are typically evaluated at each receptor in the vicinity of the Project, simplified methods have been published by SCAQMD for the evaluation of health risk impacts of a project. A Tier 1 HRA, which consists of a series of look-up values based on emission rates for each TAC, can be completed. A summation of TAC emission ratios compared to their respective Tier 1 look-up value results in a project's application screening index (ASI). An ASI less than 1 can be used to demonstrate less than significant health risk impacts of a project. However, an ASI greater than 1 does not necessarily indicate significant health risk impacts. A Tier 2 HRA, which consists of a series of look-up values with additional input options to account for project-specific parameters, such as daily exposure duration, total exposure duration, and a larger range of receptor distances than a Tier 1 HRA considers, can also be completed.

6.0 EXISTING SETTING

6.1 Air Quality Study Area

As described in **Section 3.3.1**, the DSA is located within the SoCAB, an approximately 6,745-square-mile area encompassing all of Orange County and non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The SoCAB is bounded on the west by the Pacific Ocean, on the northwest by the Santa Susana Mountains and Simi Hills, on the north by the San Gabriel Mountains and San Bernardino Mountains, on the east by the San Jacinto Mountains and Santa Rosa Mountains, and on the south by the San Diego County line. The SCAQMD has divided the region into 38 SRA in which air quality is monitored. The DSA predominantly falls within the Southeast Los Angeles County SRA with the underground portion north of Whittier Boulevard extending into the South San Gabriel Valley SRA. A variety of air pollution sources, including vehicular traffic, commercial operations, and industrial operations contribute to regional air quality in the SoCAB.

6.2 Health Risk Study Area

The DSA contains a variety of sensitive receptors, including residences and workplaces, and locations where the elderly, children, or other groups with a greater susceptibility to adverse health effects could be located. These locations include schools, hospitals, convalescent homes, parks, and daycare centers. Sensitive receptor locations of greater susceptibility to adverse health effects identified in the DSA and within one-kilometer [3,280-feet] radius of construction area are listed in **Table 6-1**.

Table 6-1. Sensitive Receptors in the Project Area

Type	Description	Location
Park	Bristow Park	Commerce
School	Las Palmas School	Commerce
Park	Rosewood Park	Commerce
School	Rosewood Park School	Commerce
School	Arts in Action Charter School Elementary	East Los Angeles
Park	Belvedere Park Fitness Zone	East Los Angeles
Hospital	Edward R. Roybal Comprehensive Health Center	East Los Angeles
Day Care	Evers Daycare	East Los Angeles
School	Griffith STEAM Magnet Middle School	East Los Angeles
School	James A. Garfield High School	East Los Angeles
Day Care	MAOF Eastmont Early Learning Center	East Los Angeles
School	McDonnell Avenue School	East Los Angeles
School	Montebello Park Elementary School	East Los Angeles
School	Morris K Hamasaki Elementary	East Los Angeles
School	Our Lady of Soledad School	East Los Angeles
School	Para Los Niños - Gloria Molina Early Education Center	East Los Angeles

Type	Description	Location
Park	Saybrook Park	East Los Angeles
School	St. Alphonsus School	East Los Angeles
School	Alta Vista Innovation High - Los Angeles (Alta Med)	Los Angeles
Park	Atlantic Avenue Park	Los Angeles
Park	Belvedere Community Regional Park	Los Angeles
Day Care	Briones Family WeeCare	Los Angeles
School	Brooklyn Avenue Elementary School	Los Angeles
Day Care	Centro De Ninos	Los Angeles
Day Care	Child Development Consortium	Los Angeles
School	Ford Boulevard Elementary School & Dual Language Academy	Los Angeles
School	Fourth Street Elementary School	Los Angeles
Hospital	Kaiser Permanente East Los Angeles Medical Offices	Los Angeles
School	Marianna Ave Elementary School	Los Angeles
Day Care	Mexican American Opportunity	Los Angeles
School	Monterey Senior High School	Los Angeles
School	New Opportunities Charter School	Los Angeles
Day Care	Riveros Family WeeCare	Los Angeles
School	SEA Charter School, East L.A. Education Center	Los Angeles
School	SIATech Boyle Heights/East Los Angeles Independent Study High School	Los Angeles
School	Winter Gardens Elementary School	Los Angeles
Convalescent	Americare Assisted Living Facility	Montebello
School	Applied Technology Center High School	Montebello
School	Eastmont Intermediate School	Montebello
School	Greenwood Elementary School	Montebello
Convalescent	Healthy Start East La Inc	Montebello
Day Care	Herrera's Daycare	Montebello
Park	Holifield Park	Montebello
Park	Rodriguez Park	Montebello
School	Vail High School	Montebello
Day Care	Vargas Family Child Care	Montebello
School	Bella Vista Elementary School	Monterey Park
Park	Bella Vista Park	Monterey Park
School	Brightwood Elementary School	Monterey Park
Day Care	Child Development Center	Monterey Park
School	Robert Hill Lane Elementary	Monterey Park
School	St. Thomas Aquinas School	Monterey Park
Park	Sunnyslopes Park	Monterey Park
Day Care	Aurora's Family Day Care	Pico Rivera

Type	Description	Location
Convalescent	Colonial Gardens Nursing Home	Pico Rivera
School	El Rancho High School	Pico Rivera
Day Care	Martha Garcia Family Daycare	Pico Rivera
Convalescent	Pico Rivera Gardens	Pico Rivera
School	Rio Vista Elementary School	Pico Rivera
Park	Rio Vista Park	Pico Rivera
School	Rivera Elementary School	Pico Rivera
School	Rivera Middle School	Pico Rivera
School	Ruben Salazar High School	Pico Rivera
Park	Smith Park	Pico Rivera
Hospital	Preventive Health Care Center	Santa Fe Springs
School	Ada S. Nelson Elementary School	Whittier
School	Aeolian Elementary School	Whittier
Convalescent	Brookdale Central Whittier	Whittier
School	Evergreen School	Whittier
School	Katherine Edwards Middle School	Whittier
School	Los Nietos Middle School	Whittier
School	Phelan Language Academy	Whittier
Hospital	PIH Health Whittier	Whittier
School	Pioneer High School	Whittier
School	Plaza De La Raza	Whittier
School	Remnant Christian School	Whittier
School	Santa Fe Kid Co	Whittier
Park	Sorensen Park	Whittier
School	Sorensen Science Academy	Whittier
School	Tri-Cities ROP	Whittier
Convalescent	Vida Adult Residential	Whittier
Convalescent	Whispering Fountains Senior Living	Whittier
Convalescent	Whittier Pacific Center	Whittier

Source: CDM Smith/AECOM JV, 2021.

6.3 Existing Conditions

6.3.1 Climate and Atmospheric Conditions

The climate of the SoCAB is determined primarily by terrain and geography. Regional meteorology is dominated by a persistent high-pressure zone over the eastern Pacific Ocean. Seasonal variations in strength and position of this pressure system cause changes in area weather patterns. Local climactic

conditions are characterized by warm summers, mild winters, infrequent rainfall, moderate daytime on-shore breezes, and moderate humidity. The SoCAB's normally mild climate is occasionally interrupted by periods of hot weather, winter storms, and hot easterly Santa Ana winds.

The SoCAB area has high levels of air pollution, particularly from June through September. Factors leading to high levels of pollution include a large amount of pollutant emissions, light winds, and shallow vertical atmospheric mixing. These factors reduce pollutant dispersion, exacerbating elevated air pollution levels. Pollutant concentrations in the SoCAB vary by location, season and time of day. Concentrations of O₃, for example, tend to be lower along the coast and in far inland areas of the basin and adjacent desert and higher in and near inland valleys. Over the past 30 years, substantial progress has been made in reducing air pollution levels in Southern California and the SoCAB.

Local climate conditions affect the dispersion, chemical reactions, and deposition of air pollutants throughout the region. Data from the San Gabriel Valley station (Pico Rivera #2, CARB Number 70085) meteorological monitoring station were used to characterize climatological conditions in the vicinity of the Project. Additional meteorological statistics were sourced from the Western Regional Climate Center (WRCC) Montebello Cooperative Observer Network (COOP) monitoring station. Historically, the maximum summer temperatures in the DSA typically occur in August and average 89.7 degrees Fahrenheit (°F), the minimum winter temperatures typically occur in December and average 47.2°F, and annual rainfall averages 14.78 inches (WRCC, 2013).

6.3.2 Existing Air Quality Conditions

Air quality conditions for a project area are typically the result of meteorological conditions and existing emission sources in an area.

6.3.2.1 Monitoring Data – Criteria Pollutants

Air quality data from a monitoring station near the DSA is summarized in **Table 6-2**. This impact report used monitoring data from the south San Gabriel Valley station (Pico Rivera #2, CARB Number 70085) for most pollutants; however, the central Los Angeles station (North Main Street, CARB Number 70087) was used for pollutants not monitored in Pico Rivera. These stations best represent air quality conditions at the DSA; or, in the case of O₃, best represent air quality conditions for the region. See **Table 6-2** for the location of the monitoring stations.

The 1-hour O₃ CAAQS was exceeded up to seven times a year during the period of 2017 through 2019 (see **Table 6-2**). Recorded 8-hour O₃ concentrations exceeded both the NAAQS and CAAQS up to nine times a year between 2017 and 2019. Substantial year-to-year variations in monitored O₃ levels are common. Although no clear trend in O₃ levels is demonstrated by monitoring results from 2017 through 2019, the ten-year trend shows a gradual decline in O₃ concentrations (see **Figure 6.1**).

Table 6-2. Summary of Pollutant Monitoring Data Near the DSA

Criteria Air Pollutant	Annual Monitoring Data			CAAQS	NAAQS
	2017	2018	2019		
Carbon Monoxide (CO)					
Pico Rivera					
Highest 1-hour concentration (ppmv)	2.5	2.0	1.9	20	35
Highest 8-hour concentration (ppmv)	2.0	1.5	1.4	9	9
Nitrogen Dioxide (NO₂)					
Pico Rivera					
National standard design value, 1-hour period (ppmv)	0.062	0.061	0.060	N/A	0.100
California designation value, 1-hour period (ppmv)	0.070	0.070	0.070	0.180	N/A
National standard design value, annual average (ppmv)	0.020	0.018	0.018	N/A	0.053
California designation value, annual average (ppmv)	0.019	0.019	0.019	0.03	N/A
Ozone (O₃)					
Pico Rivera					
Maximum concentration, 1-hour period, ppm	0.118	0.115	0.108	0.090	N/A
National standard design value, 8-hour period, ppm	0.076	0.075	0.075	N/A	0.07
California designation value, 8-hour period, ppm	0.083	0.083	0.083	0.07	N/A
Days above 1-hour CAAQS (0.09 ppmv)	7	3	5	N/A	N/A
Days above 8-hour CAAQS (0.07 ppmv)	9	5	8	N/A	N/A
Days above 8-hour NAAQS (0.07 ppmv)	9	5	7	N/A	N/A
Sulfur Dioxide (SO₂)					
Los Angeles – North Main Street					
Maximum concentration, 1-hour period (ppmv)	0.0057	0.0180	0.0101	0.25	N/A
99 th percentile of 1-hour period (ppmv)	0.0030	0.0029	0.0028	N/A	0.075
Maximum concentration, 24-hour period (ppmv)	0.0015	0.0013	0.0014	0.04	N/A
Inhalable Particulate Matter (PM₁₀)					
Los Angeles – North Main Street					
Maximum national concentration, 24-hour period, µg/m ³	64.6	68.2	62.4	N/A	150
Maximum state concentration, 24-hour period, µg/m ³	96.2	81.2	93.9	50	N/A

Criteria Air Pollutant	Annual Monitoring Data			CAAQS	NAAQS
	2017	2018	2019		
Maximum annual state concentration, 3-year average, $\mu\text{g}/\text{m}^3$	27	34	34	20	N/A
Estimated number of days above 24-hour CAAQS ($50 \mu\text{g}/\text{m}^3$)	*	31.8	*	N/A	N/A

Fine Particulate Matter (PM_{2.5})

Pico Rivera					
Maximum national concentration, 24-hour period, $\mu\text{g}/\text{m}^3$	49.5	56.3	50.2	N/A	35
National 2013 annual standard design value, $\mu\text{g}/\text{m}^3$	11.8	12.3	11.9	N/A	12
State annual designation value, $\mu\text{g}/\text{m}^3$	12	12	12	12	N/A
Estimated number of days above 24-hour NAAQS ($35 \mu\text{g}/\text{m}^3$) ¹	3.2	6.1	2.9	N/A	N/A

Source: CARB, 2019.

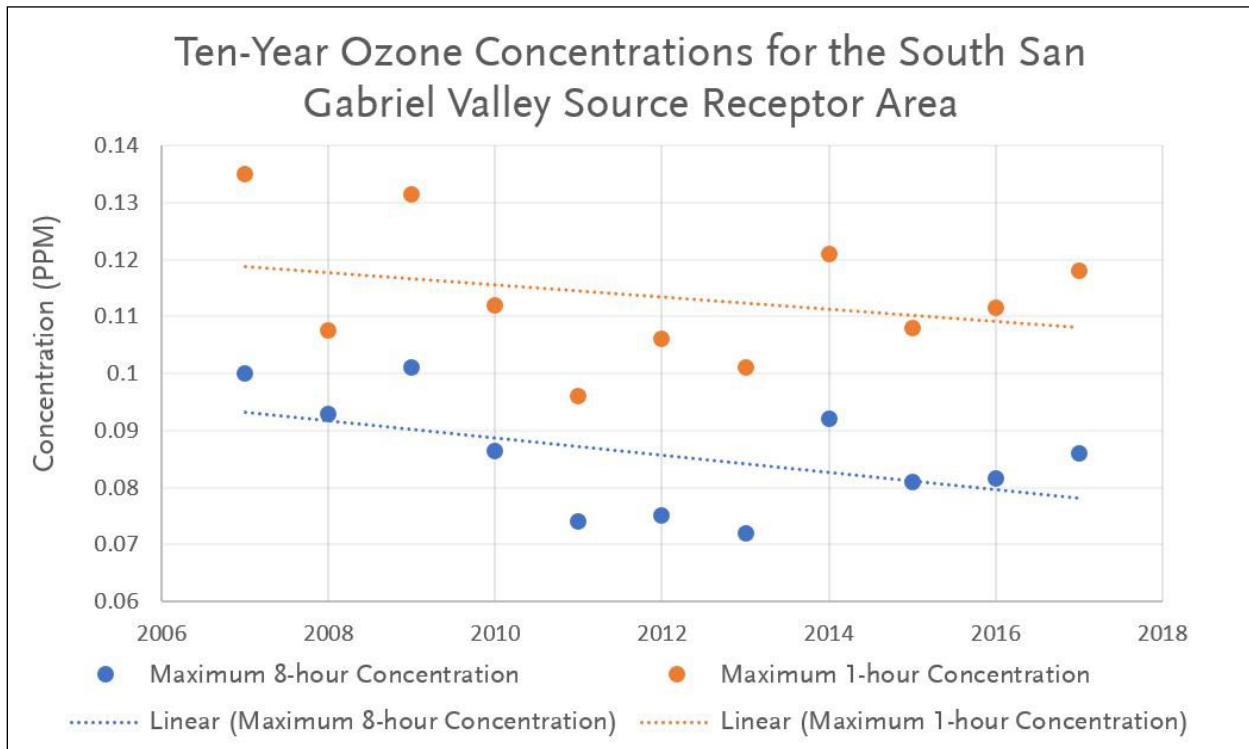
Notes:

¹ Most PM_{2.5} measurements are taken every six days; therefore, the number of days over the 24-hour standard in any year is estimated mathematically.

Key:

* = there was insufficient data available throughout the year to determine the value; $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter;

CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppmv = parts per million by volume



Source: CARB, 2019.

Figure 6.1. Ten-Year Ozone Concentration Trends

The 24-hour and annual PM₁₀ CAAQS were exceeded during the 2017 to 2019 monitoring period. The 24-hour and annual PM_{2.5} NAAQS were also exceeded during the same period.

6.3.2.2 Intersection Analysis – CO Hot Spots

CO pollution can have localized impacts that require additional analysis. If traffic volumes and congestion along a roadway substantially change, localized concentrations of CO have the potential to adversely affect sensitive populations.

This study evaluated CO hot spots for the highest volume intersections for each Build Alternative. Under existing conditions, the highest peak hour-volume intersections in the DSA would be the intersection of Rosemead Boulevard and Washington Boulevard with 5,135 vehicles per hour, and Paramount Boulevard and Washington Boulevard with 5,089 vehicles per hour, which are both less than the BAAQMD screening threshold of 44,000 vehicles per hour, or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited. Traffic volumes less than the BAAQMD screening criteria would not be expected to result in a significant CO hot spots impact, however if traffic quantities were to exceed this screening criteria, a CO hot spots analysis, including a microscale analysis for CO concentrations, must be prepared. Although both BAAQMD and the SCAQMD have promulgated general methods for the evaluation of microscale CO concentrations, since the Project would occur within SCAQMD jurisdiction, the SCAQMD criteria would be followed if required. The SCAQMD requires that the following steps be used to determine if a localized CO impact exists (SCAQMD 1993):

- Determine “2042 without Project Conditions” ambient concentration of CO emissions
- Estimate CO emissions from the Project by modeling
- Add the “2042 without Project Conditions” ambient concentration level of CO emissions to those generated by the Project
- Compare the total Project impact to the state 1-hour and 8-hour CO standards
- If modeling indicates a CO hot spot could occur, determine if any sensitive receptors are located in the area
- Identify the level of CO emissions at sensitive receptors
- Compare the level of CO emissions at sensitive receptors to the state 1-hour and 8-hour CO standards

The maximum ambient CO concentrations for 1-hour and 8-hour averaging periods in the DSA are 2.5 parts per million by volume (ppmv) and 2.0 ppmv, respectively. These values represent the maximum concentrations observed during the past three years of sampling in the Project vicinity. Future background concentrations may be estimated by multiplying monitored maximum ambient background conditions by the ratio of future and current traffic volumes and the ratio of future to current emission factors.

6.3.2.3 Existing Operational Emissions (Criteria Pollutants)

This study compiled emissions inventories for the existing conditions baseline year. Identified potential operational emission sources include regional traffic, operation of LRVs, operation of LRV stations, evaporation of VOC from parked vehicle fuel tanks at LRV stations, operation of any MSFs, and operation of any bus routes.

6.3.2.3.1 Regional Highway Traffic Emissions

Emission modeling summarized in this impacts report includes the entire vehicle fleet mix for the SoCAB used in EMFAC and includes vehicle types such as passenger cars, trucks, buses, and motorcycles. This analysis uses the EMFAC2017 model to generate emission factors for these vehicle types. To extrapolate the daily traffic data that was modeled to an annual value, an annualization value of 318 days per year was used (CDM Smith/AECOM 2019). This value was used to adjust traffic for reduced travel time on weekends and holidays. **Table 6-3** provides a summary of highway (regional) traffic emissions in the DSA.

Table 6-3. Existing Conditions Highway Traffic Emissions

Category	Emissions					
	VOC	CO	NOx	SO ₂	PM ₁₀ ¹	PM _{2.5} ¹
Emission Factor (g/mi) ²	0.097	1.891	0.353	0.004	0.349	0.098
Daily Emissions (lbs/day) ³	101,659	1,983,240	370,334	3,922	365,674	102,897
Annual Emissions (tpy) ³	16,164	315,335	58,883	624	58,142	16,361

Source: CDM Smith/AECOM JV, 2021.

Notes:

- 1 The emission factors for particulate matter (PM₁₀ and PM_{2.5}) include engine exhaust, tire wear, brake wear, and paved road dust.
- 2 The EMFAC emission factors are based on the SoCAB geographic area fleet mix and an average vehicle speed of 35 miles per hour (based on traffic modeling information).
- 3 Daily and annual emissions are based on a regional daily estimate of 475,761,000 VMT (CDM Smith/AECOM JV, 2021). An annualization factor of 318 days per year was used to estimate annual emissions.

Key:

CO = carbon monoxide; g/mi = grams per mile; lbs/day = pounds per day; NOx = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; tpy = tons per year; VOC = volatile organic compounds

6.3.2.3.2 LRV Operation Emissions

No LRVs would operate in the DSA under 2042 without Project Conditions, and therefore baseline emissions from this source would be zero. Additionally, since LRVs would be powered by electricity, there would also be no direct emissions of criteria pollutants from this source under any future alternative. Thus, LRV-related emissions were not further considered for air quality impacts (see the Eastside Transit Corridor Phase 2 Climate Change Impacts Report that addresses potential climate-change impacts and indirect emissions of GHG from Project operations).

6.3.2.3.3 Station Operation Emissions

One at-grade LRV station located at the current alignment terminus at Atlantic Boulevard would operate in the DSA under 2042 without Project Conditions. However, since LRV stations would be powered by electricity, there would be no direct emissions of criteria pollutants from this source under 2042 without Project Conditions or the Build Alternatives. Thus, LRV station-related emissions were not further considered for air quality impacts (see the Eastside Transit Corridor Phase 2 Climate Change Impacts Report that addresses potential climate-change impacts and indirect emissions of GHG from Project operations).

6.3.2.3.4 Parking-Related Emissions

Under each Build Alternative, parking-related evaporative VOC emissions were analyzed for all Project-related parking facilities. Although parking at existing facilities would result in regional evaporative VOC emissions, the emissions from these existing sources would not substantially change as a result of the Project. Thus, parking-related emissions were not analyzed for existing conditions.

6.3.2.3.5 MSF Emissions

Under each Build Alternative, MSF-related emissions were analyzed for all Project MSF site options. No MSFs currently operate in the DSA. Thus, MSF-related emissions were not analyzed for existing conditions.

6.3.2.3.6 Bus Operations Emissions

No bus routes were projected to be substantially adjusted or altered due to implementation of the Project or its alternatives; therefore, emissions related to local bus routes were not considered in the estimated emissions under 2042 without Project Conditions or the Build Alternatives.

6.3.2.3.7 Total Operational Emissions (Criteria Pollutants)

Table 6-4 for a summarizes the total DSA operating emissions under existing conditions.

Table 6-4. Existing Conditions Total Operational Emissions

Emission Source	Daily Emissions (lbs/day)					
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}
Regional Traffic	101,659	1,983,240	370,334	3,922	365,674	102,897
Total	101,659	1,983,240	370,334	3,922	365,674	102,897
Annual Emissions (tpy)						
Regional traffic	16,164	315,335	58,883	624	58,142	16,361
Total	16,164	315,335	58,883	624	58,142	16,361

Source: CDM Smith/AECOM JV, 2019.

Key:

CO = carbon monoxide; g/mi = grams per mile; lbs/day = pounds per day; NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; tpy = tons per year; VOC = volatile organic compounds

6.3.3 Existing Health Risk Conditions

In May 2015, the SCAQMD released the Final Multiple Air Toxics Exposure Study IV (MATES IV), which was a comprehensive monitoring and evaluation study of ambient TAC levels in the SoCAB. MATES IV was a continuation of previous air toxics studies in the SoCAB, characterizing ambient risk levels across the region (SCAQMD 2015a). MATES IV built upon prior studies through the inclusion of ultrafine particle concentration contributions and focused primarily on carcinogenic risk from exposure to air toxics.

Compared to the previous MATES III study, MATES IV found a decreasing risk from air toxics exposure, with population weighted risk levels down 57 percent in the MATES IV study period (2012) as compared to the MATES III study period (2005). However, the study determined that risks are still unacceptable, and higher near major sources of emissions, such as ports or major transportation corridors. Particulate exhaust from diesel engines (DPM) was the predominant TAC contributing to carcinogenic risk in the SoCAB, representing 80 percent of carcinogenic health risks. MATES IV underscores the continued need for focused regional emission reduction efforts, particularly for DPM.

The MATES IV study originally estimated population-weighted average individual carcinogenic risk throughout the SoCAB to be approximately 418 in one million (SCAQMD, 2015b). However, as the study was being prepared, the California Office of Environmental Health Hazard Assessment adopted revised methods for estimating carcinogenic risk that more accurately accounted for age-based risk susceptibility and breathing rates. Taking those factors into consideration, population-weighted average individual carcinogenic risk was calculated to be 1,023 in one million (nearly 2.45 times higher than initially estimated in the MATES IV study). More heavily urbanized portions of the basin have higher average risks than less urban areas. The highest estimated individual carcinogenic risk identified in MATES IV study areas in the immediate vicinity of the Project was estimated at 1,671 in one million.

7.0 IMPACTS

This section describes the results of the impact analysis conducted for the Build Alternatives. More detailed emission calculations and model outputs can be found in **Attachment A** through **Attachment D** of this impacts report.

7.1 Impact AQ-1: Air Quality Plan

Impact AQ-1: Would a Build Alternative conflict with or obstruct implementation of the applicable air quality plan?

7.1.1 Alternative 1 Washington Boulevard

The applicable air quality plan is the SCAQMD 2016 AQMP, prepared in support of the SIP and approved by CARB in April 2017. As indicated in the SCAQMD Handbook, a project is consistent with the AQMP if:

- The project does not result in an increase to the frequency or severity of an existing air quality violation;
- The project does not cause or contribute to new air quality violations;
- The project does not delay the timely attainment of the air quality standards or the interim emission reductions specified in the AQMP;
- The project is consistent with the population and employment growth projections upon which the AQMP forecasted emission levels are based;
- Project development is consistent with AQMP land use policies; and
- The Project is consistent with the applicable mitigation measures assumed in preparation of the AQMP.

The SCAQMD 2016 AQMP relied on transportation, land use, and growth assumptions included in SCAG's 2016-2040 RTP/SCS in the development of its growth and regional air quality projections. In both SCAG's current 2020-2045 RTP/SCS and the 2016-2040 RTP/SCS, the DSA was identified as a priority growth area for urban transit and the Project was identified as a major transit capital project. The Project was incorporated into regional growth projections and transportation strategies in both the 2020-2045 RTP/SCS and 2016-2040 RTP/SCS.

7.1.1.1 Operational and Construction Impacts

Under Alternative 1, the Metro L (Gold) Line would be extended from a relocated/reconfigured Atlantic station in East Los Angeles approximately 9.0 miles east to the city of Whittier. This alternative would involve the construction and subsequent operation of seven stations (one relocated/reconfigured and six new) and other ancillary facilities. It would include development of an MSF, which is discussed in **Section 7.1.4**. The Project would not introduce new population or housing growth in the DSA and any additional employment at Metro operated facilities would not disproportionately contribute to the growth projections in the 2020-2045 RTP/SCS or 2016-2040 RTP/SCS. The construction and subsequent operation of Alternative 1 would result in a reduction in regional passenger vehicle VMT of approximately 3,180,000 miles annually.

Table 7-1, Table 7-2, and Table 7-7 present the regional and localized emissions under Alternative 1 with each MSF site option. As shown, emissions would remain below applicable SCAQMD thresholds for all criteria pollutants during both construction and operation of the Project and would therefore not contribute to new air quality violations or an increase in the frequency or severity of existing air quality violations. Under Alternative 1, regional passenger vehicle VMT and associated criteria pollutants would be reduced, consistent with the VMT-reducing objectives of the AQMP. The Project would not delay the timely attainment of air quality standards or interim emission reductions specified in the AQMP.

Therefore, operation and construction of Alternative 1 would not conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be less than significant.

Design Options

Atlantic/Pomona Station Option

As with the base Alternative 1, implementation of Alternative 1 with the Atlantic/Pomona Station Option would not introduce new population or housing growth, disproportionately contribute to the growth projections, or delay the timely attainment of air quality standards or interim emission reductions specified in the AQMP. Therefore, operation and construction of Alternative 1 with the Atlantic/Pomona Station Option would not conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be less than significant.

Montebello At-Grade Option

As with the base Alternative 1, implementation of Alternative 1 with the Montebello At-Grade Option would not introduce new population or housing growth, disproportionately contribute to the growth projections, or delay the timely attainment of air quality standards or interim emission reductions specified in the AQMP. Therefore, operation and construction of Alternative 1 with the Montebello At-Grade Option would not conflict with or obstruct implementation of the applicable air quality plan impacts with respect to consistency with the applicable air quality plan would be less than significant.

7.1.2 Alternative 2 Atlantic to Commerce/Citadel IOS

7.1.2.1 Operational & Construction Impacts

Under Alternative 2, the Metro L (Gold) Line would be extended from a relocated Atlantic Station in East Los Angeles approximately 3.2 miles to the city of Commerce. This alternative would involve the construction and subsequent operation of three stations (one of which would be the existing relocated/reconfigured Atlantic station) and other ancillary facilities. It would include development of an MSF, which is discussed in **Section 7.1.4**. The Project would not introduce new population or housing growth in the DSA and any additional employment at Metro operated facilities would not disproportionately contribute to the growth projections in the 2020-2045 RTP/SCS or 2016-2040 RTP/SCS. The construction and subsequent operation of Alternative 2 would result in a reduction to regional passenger vehicle VMT of approximately 1,590,000 miles annually.

Table 7-3, Table 7-4, and Table 7-8 present the regional and localized emissions under Alternative 2 with the Commerce MSF site option. As shown, emissions would remain below applicable SCAQMD thresholds for all criteria pollutants during both construction and operation of the Project and would therefore not contribute to new air quality violations or an increase in the frequency or severity of existing air quality violations. Under Alternative 2, regional passenger vehicle VMT and associated criteria pollutants would be reduced, consistent with the VMT-reducing objectives of the AQMP. The Project would not delay the timely attainment of air quality standards or interim emission reductions specified in the AQMP.

Therefore, operation and construction of Alternative 2 would not conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be less than significant.

Design Option

Atlantic/Pomona Station Option

As with the base Alternative 2, implementation of Alternative 2 with the Atlantic/Pomona Station Option would not introduce new population or housing growth, disproportionately contribute to the growth projections, or delay the timely attainment of air quality standards or interim emission reductions specified in the AQMP. Therefore, operation and construction of Alternative 2 with the Atlantic/Pomona Station Option would not conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be less than significant.

7.1.3 Alternative 3 Atlantic to Greenwood IOS

7.1.3.1 Operational & Construction Impacts

Under Alternative 3, the Metro L (Gold) Line would be extended from a relocated/reconfigured Atlantic Station in East Los Angeles approximately 4.6 miles to the city of Montebello. This alternative would involve the construction and subsequent operation of four stations (one of which would be the existing relocated/reconfigured Atlantic station), and other ancillary facilities. It would include development of an MSF, which is discussed in **Section 7.1.4**. The Project would not introduce new population or housing growth in the DSA and any additional employment at Metro operated facilities would not disproportionately contribute to the growth projections in the 2020-2045 RTP/SCS or 2016-2040 RTP/SCS. The construction and subsequent operation of Alternative 3 would result in a reduction to regional passenger vehicle VMT of approximately 2,544,000 miles annually.

Table 7-5, Table 7-6, and Table 7-9 present the regional and localized emissions under Alternative 3 with either MSF site option. As shown, emissions would remain below applicable SCAQMD thresholds for all criteria pollutants during both construction and operation of the Project and would therefore not contribute to new air quality violations or an increase in the frequency or severity of existing air quality violations. Under Alternative 3, regional passenger vehicle VMT and associated criteria pollutants would be reduced, consistent with the VMT-reducing objectives of the AQMP. The Project would not delay the timely attainment of air quality standards or interim emission reductions specified in the AQMP.

Therefore, operation and construction of Alternative 3 would not conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be less than significant.

Design Options

Atlantic/Pomona Station Option

As with the base Alternative 3, implementation of Alternative 3 with the Atlantic/Pomona Station Option would not introduce new population or housing growth, disproportionately contribute to the growth projections, or delay the timely attainment of air quality standards or interim emission reductions specified in the AQMP. Therefore, operation and construction of Alternative 3 with the Atlantic/Pomona Station Option would not conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be less than significant.

Montebello At-Grade Option

As with the base Alternative 3, implementation of Alternative 3 with the Montebello At-Grade Option would not introduce new population or housing growth, disproportionately contribute to the growth projections, or delay the timely attainment of air quality standards or interim emission reductions specified in the AQMP. Therefore, operation and construction of Alternative 3 with the Montebello At-Grade Option would not conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be less than significant.

7.1.4 Maintenance and Storage Facilities

7.1.4.1 Operational & Construction Impacts

As detailed in **Sections 7.1.1, 7.1.2, and 7.1.3**, the construction and subsequent operation of the Project would not conflict with or obstruct implementation of the applicable air quality plan and would result in substantial reductions to regional VMT. Operation and construction of an MSF is essential in maintaining a reliable light rail system and was included in the assessment of the Project's consistency with the applicable air quality plan.

Therefore, operation and construction of an MSF would not conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be less than significant.

7.1.4.1.1 Commerce MSF

As described above, operation and construction of the Commerce MSF site option would not conflict with or obstruct implementation of the applicable air quality plan. Implementation of the Commerce MSF site option would not result in a change to any findings with respect to the Project's consistency with the applicable air quality plan; impacts would be less than significant.

7.1.4.1.2 Montebello MSF

As described above, operation and construction of the Montebello MSF site option, would not conflict with or obstruct implementation of the applicable air quality plan. Implementation of the Montebello MSF site option would not result in a change to any findings with respect to the Project's consistency with the applicable air quality plan; impacts would be less than significant.

Design Options

Montebello MSF At-Grade Option

As described above, the construction and operation of the Project, including the construction and operation of the Montebello MSF At-Grade Option, would not conflict with or obstruct implementation of the applicable air quality plan. Implementation of the Montebello MSF At-Grade Option would not result in a change to any findings with respect to the Project's consistency with the applicable air quality plan; impacts would be less than significant.

7.2 Impact AQ-2: Regional Criteria Pollutant Emissions

Impact AQ-2: Would a Build Alternative result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

7.2.1 Alternative 1 Washington Boulevard

7.2.1.1 Operational Impacts

Operational criteria air pollutant emission sources under Alternative 1 include exhaust from motor vehicle VMT in the vicinity of the Project, parking facility maintenance, parked vehicle fuel evaporation, and MSF operations which are essential in maintaining a reliable light rail system. Emissions associated with exhaust from motor vehicle VMT, which would be reduced under Alternative 1 as compared to 2042 without Project Conditions, were estimated to compare against the projected VMT-related emissions under 2042 without Project Conditions to properly account for emissions reductions associated with the Project. Emissions from powering the electric LRT vehicles were not assumed to occur locally and therefore, were not estimated. As presented in **Table 7-1**, there would be a net reduction in operational regional emissions of CO, NO_x, SO₂, PM₁₀, and PM_{2.5} under Alternative 1. While there would be a net increase in emissions of VOC from operation of Alternative 1, those emissions would be below the SCAQMD threshold and impacts with respect to operational regional criteria pollutant emissions would be less than significant. The emission reductions would be driven by the reduction in motor vehicle VMT associated with ridership of the Metro L (Gold) Line extension.

Table 7-1. Alternative 1 Operational Regional Criteria Pollutant Emissions

Emission Source	Daily Emissions (lbs/day)					
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}
Alternative 1 (2042)						
Regional Traffic	34,734	1,005,436	154,406	3,180	445,297	121,800
MSF Operations – Commerce Site Option ¹	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
MSF Operations – Montebello Site Option ¹	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
Parking Facility Maintenance and Parked Vehicle Fuel Evaporation	0.5	--	--	--	--	--
Maximum Total ²	34,738	1,005,436	154,406	3,180	445,297	121,800
2042 without Project Conditions						
Regional Traffic	34,734	1,005,454	154,409	3,180	445,304	121,803
Maximum Total	34,734	1,005,454	154,409	3,180	445,304	121,803
Alternative 1 (2042) compared to 2042 without Project Conditions						
Net Project Emissions ³	4	(17)	(3)	(<1)	(8)	(2)
SCAQMD Threshold	55	550	55	150	150	55
Exceeds Threshold	No	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

1 Only one MSF site option would be selected.

2 The maximum total shows the maximum peak daily emissions associated with implementation of either the Commerce or Montebello MSF site option.

3 Emission reductions (beneficial impacts) are shown in parentheses.

Key:

 CO = carbon monoxide; g/mi = grams per mile; lbs/day = pounds per day; NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; tpy = tons per year; VOC = volatile organic compounds

Design Options

Atlantic/Pomona Station Option

As described above, operation of the base Alternative 1 would result in a net reduction in operational regional criteria air pollutant emissions of CO, NO_x, SO₂, PM₁₀, and PM_{2.5} and a small net increase in operational regional criteria air pollutant emissions of VOC, and impacts with respect to operational regional criteria pollutant emissions would be less than significant. Implementation of Alternative 1 with the Atlantic/Pomona Station Option would result in no meaningful change to operational regional criteria air pollutant emissions as compared to the base Alternative 1 as identified in **Table 7-1**. Therefore, impacts from the operation of Alternative 1 with the Atlantic/Pomona Station Option with respect to operational regional criteria pollutant emissions would be less than significant.

Montebello At-Grade Option

As described above, the operation of the base Alternative 1 would result in a net reduction in operational regional criteria air pollutant emissions of CO, NO_x, SO₂, PM₁₀, and PM_{2.5} and a small net increase in operational regional criteria air pollutant emissions of VOC, and impacts with respect to

operational regional criteria pollutant emissions would be less than significant. Implementation of Alternative 1 with the Montebello At-Grade Option would result in no meaningful change to operational regional criteria air pollutant emissions as compared to the base Alternative 1 as identified in **Table 7-1**. Therefore, impacts from the operation of Alternative 1 with the Montebello At-Grade Option with respect to operational regional criteria pollutant emissions would be less than significant.

7.2.1.2 Construction Impacts

Construction criteria air pollutant emission sources under Alternative 1 include exhaust from construction worker motor vehicles traveling to and from the Project, exhaust from delivery and hauling trucks traveling to and from the Project construction site, exhaust from heavy-duty construction equipment operating on-site, and fugitive construction emissions. As presented in **Table 7-2**, construction of Alternative 1 with construction of either MSF site option would result in peak daily regional emissions that would be less than the SCAQMD regional significance thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant.

Table 7-2. Alternative 1 Construction Regional Criteria Pollutant Emissions

Emission Source	Daily Emissions (lbs/day)					
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}
Montebello Segment Only – Base Alternative 1 and Design Option¹						
Base Alternative 1 (aerial)	1.5	12.2	11.9	<0.1	1.0	0.6
At-Grade Option	1.5	15.2	13.2	<0.1	2.3	1.3
MSF Site Options Only²						
Commerce MSF ²	6.7	15.3	11.2	<0.1	1.9	0.8
Montebello MSF ²	6.7	15.3	11.2	<0.1	1.9	0.8
Alternative 1 Overall Construction (including all Project elements and an MSF)³						
Total ³	21.2	130.6	89.4	0.3	11.7	6.4
SCAQMD Threshold	75	550	100	150	150	55
Exceeds Threshold	No	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

1 Peak daily emissions associated with construction of the Montebello segment of the alignment.

2 Only one MSF site option would be selected.

3 Totals represent the peak day (maximum overlapping) construction emissions for all Project-elements, including an MSF, the greater of any staging area options, and the greater of any design options or their corresponding portion of the base Alternative. See Attachment A for daily construction emissions associated with each Project element.

Key:

CO = carbon monoxide; g/mi = grams per mile; lbs/day = pounds per day; NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; tpy = tons per year; VOC = volatile organic compounds

The emissions presented in **Table 7-2** were estimated using default CalEEMod emission factors with no mitigation applied. Reductions in fugitive dust emissions (affecting PM₁₀ and PM_{2.5} emissions) associated with three-times per day watering as required by SCAMQD Rule 403 were included in the emission calculations. SCAQMD thresholds would not be exceeded by construction activities under Alternative 1. Nonetheless, additional construction BMPs set forth in Metro's Green Construction Policy would further reduce construction-related emissions beyond what is presented. Since certain construction details have not yet been determined, the following BMPs were not accounted for in the

construction emission estimates. These BMPs include but are not limited to the required use of renewable diesel fuel in construction equipment; the required use of Tier 4 off-road emission standard equipment as regionally available; the required use of USEPA 2007 on-road emission standard compliant trucks; the limitation of vehicle idling to 5 minutes or fewer when not in use; and the use of grid-power in lieu of diesel generators where available. In particular, the use of Tier 4 off-road emission standard equipment would result in reduced emissions of NO_x, since the Tier 3 (next highest after Tier 4) emission standard is an order of magnitude higher than the Tier 4 standard (i.e., use of exclusively Tier 4 equipment could reduce direct NO_x emissions by up to 90 percent).

Design Options

Atlantic/Pomona Station Option

As described above, the construction of the base Alternative 1 would result in construction regional criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of Alternative 1 with the Atlantic/Pomona Station Option would result in daily construction regional criteria pollutant emissions that would be the same as those of the base Alternative 1. While the Atlantic/Pomona Station Option would be located at a different position along the alignment and approximately 50 additional feet of underground alignment would be required to complete its construction; that excavation would be completed with the electrically powered TBM and would not result in a change in project peak day emissions. Moreover, the magnitude of excavation activity which would be required to implement the Atlantic/Pomona Station Option would be essentially the same as that required under the base Alternative 1 for the excavation of the TBM receiving pit and underground-to-at-grade transition of the alignment. Therefore, construction of Alternative 1 with the Atlantic/Pomona Station Option would result in daily construction regional emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant.

Montebello At-Grade Option

As described above, the construction of the base Alternative 1 would result in construction regional criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of Alternative 1 with the Montebello At-Grade Option would result in daily construction regional criteria pollutant emissions that would be greater than those of the base Alternative 1 as presented in **Table 7-2**. Construction of the at-grade segment in Montebello under the Montebello At-Grade Option has a higher peak day emission than an aerial configuration at this location due to a larger count of heavy-duty equipment needed during the peak day. This additional equipment is associated with the greater amount of roadway demolition, modification, or reconstruction necessary for the at-grade construction as compared to aerial construction. However, construction of the Montebello At-Grade Option is not expected to overlap with other Project elements to contribute to overall peak day regional emissions of VOC, NO_x, CO, SO₂, PM₁₀, or PM_{2.5}. Therefore, as presented in **Table 7-2** above, construction of Alternative 1 with the Montebello At-Grade Option would result in daily construction regional emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant.

7.2.2 Alternative 2 Atlantic to Commerce/Citadel IOS

7.2.2.1 Operational Impacts

Operational criteria air pollutant emission sources under Alternative 2 include exhaust from motor vehicle VMT in the vicinity of the Project and MSF operations which are essential in maintaining a reliable light rail system. Emissions associated with exhaust from motor vehicle VMT, which would be reduced under Alternative 2 as compared to 2042 without Project Conditions, were estimated to compare against the projected VMT-related emissions under 2042 without Project Conditions to properly account for emissions reductions associated with the Project. Emissions from powering the electric LRT vehicles were not assumed to occur locally and therefore, were not estimated. As presented in **Table 7-3**, there would be a net reduction in operational regional emissions of CO, NO_x, SO₂, PM₁₀, and PM_{2.5} and a slight increase in emissions of VOC under Alternative 2. However, emissions of VOC would be less than the SCAQMD threshold and impacts from the operation of Alternative 2 with respect to operational regional criteria pollutant emissions would be less than significant. Emission reductions would be driven by the reduction in motor vehicle VMT associated with ridership of the Metro L (Gold) Line extension.

Table 7-3. Build Alternative 2 Operational Regional Criteria Pollutant Emissions

Emission Source	Daily Emissions (lbs/day)					
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}
Alternative 2 (2042)						
Regional Traffic	34,734	1,005,445	154,407	3,180	445,301	121,802
MSF Operations – Commerce Site Option	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Total	34,738	1,005,445	154,407	3,180	445,301	121,802
2042 without Project Conditions						
Regional Traffic	34,734	1,005,454	154,409	3,180	445,304	121,803
Maximum Total	34,734	1,005,454	154,409	3,180	445,304	121,803
Alternative 2 (2042) compared to 2042 without Project Conditions						
Net Project Emissions ¹	4	(9)	(1)	(<1)	(4)	(1)
SCAQMD Threshold	55	550	55	150	150	55
Exceeds Threshold	No	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

¹ Emission reduction (beneficial impacts) are shown in parentheses.

Key:

CO = carbon monoxide; g/mi = grams per mile; lbs/day = pounds per day; NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; tpy = tons per year; VOC = volatile organic compounds

Design Options

Atlantic/Pomona Station Option

As described above, the operation of the base Alternative 2 would result in a net reduction in operational regional criteria air pollutant emissions of CO, NO_x, SO₂, PM₁₀, and PM_{2.5} and a small net increase in operational regional criteria air pollutant emissions of VOC, and impacts with respect to operational regional criteria pollutant emissions would be less than significant. Implementation of Alternative 2 with the Atlantic/Pomona Station Option would result in no meaningful change to operational regional criteria air pollutant emissions as compared to the base Alternative 2 as identified in **Table 7-3**. Therefore, impacts from the operation of Alternative 2 with the Atlantic/Pomona Station Option with respect to operational regional criteria pollutant emissions would be less than significant.

7.2.2.2 Construction Impacts

Construction criteria air pollutant emission sources under Alternative 2 include exhaust from construction worker motor vehicles traveling to and from the Project, exhaust from delivery and hauling trucks traveling to and from the Project construction site, exhaust from heavy-duty construction equipment operating on-site, and fugitive construction emissions. As presented in **Table 7-4**, construction of Alternative 2 with the Commerce MSF site option would result in peak daily regional emissions that would be less than the SCAQMD regional significance thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant.

Table 7-4. Alternative 2 Construction Regional Criteria Pollutant Emissions

Emission Source	Daily Emissions (lbs/day)					
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}
MSF Site Options Only						
Commerce MSF	6.7	15.3	11.2	<0.1	1.9	0.8
Alternative 2 Overall Construction (including all Project elements and an MSF)¹						
Maximum Total ¹	11.2	93.5	81.8	0.2	7.3	4.1
SCAQMD Threshold	75	550	100	150	150	55
Exceeds Threshold	No	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

¹ Totals represent the peak day (maximum overlapping) construction emissions for all Project-elements including the MSF and the greater of any staging area options. See Attachment A for daily construction emissions associated with each Project element.

Key:

CO = carbon monoxide; g/mi = grams per mile; lbs/day = pounds per day; NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; tpy = tons per year; VOC = volatile organic compounds

The emissions presented in **Table 7-4** were estimated using default CalEEMod emission factors with no mitigation applied. Reductions in fugitive dust emissions (affecting PM₁₀ and PM_{2.5} emissions) associated with three-times per day watering as required by SCAMQD Rule 403 were included in the emission calculations. SCAQMD thresholds would not be exceeded by construction activities under Alternative 2. Nonetheless, additional construction BMPs set forth in Metro's Green Construction Policy would further reduce construction-related emissions beyond what is presented. Since certain construction details have not yet been determined, the following BMPs were not accounted for in the

construction emission estimates. These BMPs include but are not limited to the required use of renewable diesel fuel in construction equipment; the required use of Tier 4 off-road emission standard equipment as regionally available; the required use of USEPA 2007 on-road emission standard compliant trucks; the limitation of vehicle idling to 5 minutes or fewer when not in use; and the use of grid-power in lieu of diesel generators where available. In particular, the use of Tier 4 off-road emission standard equipment would result in reduced emissions of NO_x, since the Tier 3 (next highest after Tier 4) emission standard is an order of magnitude higher than the Tier 4 standard (i.e., use of exclusively Tier 4 equipment could reduce direct NO_x emissions by up to 90 percent).

Design Options

Atlantic/Pomona Station Option

Implementation of Alternative 2 with the Atlantic/Pomona Station Option would result in daily construction regional criteria pollutant emissions that would be the same as those of the base Alternative 2. While the Atlantic/Pomona Station Option would be located at a different position along the alignment and approximately 50 additional feet of underground alignment would be required to complete its construction; that excavation would be completed with the electrically powered TBM and would not result in a change in project peak day emissions. Moreover, the magnitude of excavation activity which would be required to implement the Atlantic/Pomona Station Option would be essentially the same as that required under the base Alternative 2 for the excavation of the TBM receiving pit and underground-to-at-grade transition of the alignment. Therefore, construction of Alternative 2 with the Atlantic/Pomona Station Option would result in daily construction regional emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant.

7.2.3 Alternative 3 Atlantic to Greenwood IOS

7.2.3.1 Operational Impacts

Operational criteria air pollutant emission sources under Alternative 3 include exhaust from motor vehicle VMT in the vicinity of the Project, parking facility maintenance, parked vehicle fuel evaporation and MSF operations that are essential in maintaining a reliable light rail system. Emissions associated with exhaust from motor vehicle VMT, which would be reduced under Alternative 3 as compared to 2042 without Project Conditions, were estimated to compare against the projected VMT-related emissions under 2042 without Project Conditions to properly account for emissions reductions associated with the Project. Emissions from powering the electric LRT vehicles were not assumed to occur locally and therefore, were not estimated. As presented in **Table 7-5**, there would be a net reduction in operational regional emissions of CO, NO_x, SO₂, PM₁₀, and PM_{2.5} and a slight increase in emissions of VOC under Alternative 3. However, emissions of VOC would be less than the SCAQMD threshold and impacts from the operation of Alternative 3 with respect to operational regional criteria pollutant emissions would be less than significant. Emission reductions would be driven by the reduction in motor vehicle VMT associated with ridership of the Metro L (Gold) Line extension.

Table 7-5. Build Alternative 3 Operational Regional Criteria Pollutant Emissions

Emission Source	Daily Emissions (lbs/day)					
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}
Build Alternative 3 (2042)						
Regional Traffic	34,734	1,005,440	154,406	3,180	445,298	121,801
MSF Operations – Commerce Site Option ¹	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
MSF Operations – Montebello Site Option ¹	4.0	<0.1	<0.1	<0.1	<0.1	<0.1
Parking Facility Maintenance and Parked Vehicle Fuel Evaporation	0.1	--	--	--	--	--
Maximum Total ²	34,738	1,005,440	154,406	3,180	445,298	121,801
2042 without Project Conditions						
Regional Traffic	34,734	1,005,454	154,409	3,180	445,304	121,803
Maximum Total	34,734	1,005,454	154,409	3,180	445,304	121,803
Build Alternative 3 (2042) compared to 2042 without Project Conditions						
Net Project Emissions ³	4	(14)	(2)	(0)	(6)	(2)
SCAQMD Threshold	55	550	55	150	150	55
Exceeds Threshold	No	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

1 Only one MSF site option would be selected.

2 The maximum total shows the maximum peak daily emissions associated with implementation of either the Commerce or Montebello MSF site options.

3 Emission reductions (beneficial impacts) are shown in parentheses.

Key:

 CO = carbon monoxide; g/mi = grams per mile; lbs/day = pounds per day; NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; tpy = tons per year; VOC = volatile organic compounds

Design Options

Atlantic/Pomona Station Option

As described above, the operation of the base Alternative 3 would result in a net reduction in operational regional criteria air pollutant emissions of CO, NO_x, SO₂, PM₁₀, and PM_{2.5} and a small net increase in operational regional criteria air pollutant emissions of VOC, and impacts with respect to operational regional criteria pollutant emissions would be less than significant. Implementation of Alternative 3 with the Atlantic/Pomona Station Option would result in no meaningful change to operational regional criteria air pollutant emissions as compared to the base Alternative 3 as identified in **Table 7-5**. Therefore, impacts from the operation of Alternative 3 with the Atlantic/Pomona Station Option with respect to operational regional criteria pollutant emissions would be less than significant.

Montebello At-Grade Option

As described above, the operation of the base Alternative 3 would result in a net reduction in operational regional criteria air pollutant emissions of CO, NO_x, SO₂, PM₁₀, and PM_{2.5} and a small net

increase in operational regional criteria air pollutant emissions of VOC, and impacts with respect to operational regional criteria pollutant emissions would be less than significant. Implementation of Alternative 3 with the Montebello At-Grade Option would result in no meaningful change to operational regional criteria air pollutant emissions as compared to the base Alternative 3 as identified in **Table 7-5**. Therefore, impacts from the operation of Alternative 3 with the Montebello At-Grade Option with respect to operational regional criteria pollutant emissions would be less than significant.

7.2.3.2 Construction Impacts

Construction criteria air pollutant emission sources under Alternative 3 include exhaust from construction worker motor vehicles traveling to and from the Project construction site, exhaust from delivery and hauling trucks traveling to and from the Project construction site, exhaust from heavy-duty construction equipment operating on-site, and fugitive construction emissions. As presented in **Table 7-6**, construction of Alternative 3 with either MSF site option would result in peak daily regional emissions that would be less than the SCAQMD regional significance thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant.

Table 7-6. Build Alternative 3 Construction Regional Criteria Pollutant Emissions

Emission Source	Daily Emissions (lbs/day)					
	VOC	CO	NO _x	SO ₂	PM ₁₀	PM _{2.5}
Montebello Segment Only – Base Alternative 3 and Design Option¹						
Base Alternative (aerial)	1.5	12.2	11.9	<0.1	1.0	0.6
At-Grade Option	1.5	15.2	13.2	<0.1	2.3	1.3
MSF Site Options Only²						
Commerce MSF	6.7	15.3	11.2	<0.1	1.9	0.8
Montebello MSF	6.7	15.3	11.2	<0.1	1.9	0.8
Alternative 3 Overall Construction (including all Project elements and an MSF)						
Maximum Total ³	15.1	96.5	81.8	0.2	7.3	4.1
SCAQMD Threshold	75	550	100	150	150	55
Exceeds Threshold	No	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

1 Peak daily emissions associated with construction of the Montebello segment of the alignment.

2 Only one MSF site option would be selected.

3 Totals represent the peak day (maximum overlapping) construction emissions for all Project-elements including an MSF, the greater of any staging area options, and the greater of any design options or their corresponding portion of the base Alternative. See Attachment A for daily construction emissions associated with each Project element.

Key:

CO = carbon monoxide; g/mi = grams per mile; lbs/day = pounds per day; NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SO₂ = sulfur dioxide; tpy = tons per year; VOC = volatile organic compounds

The emissions presented in **Table 7-6** were estimated using default CalEEMod emission factors with no mitigation applied. Reductions in fugitive dust emissions (affecting PM₁₀ and PM_{2.5} emissions) associated with three-times per day watering as required by SCAMQD Rule 403 were included in the emission calculations. SCAQMD thresholds would not be exceeded by construction activities under Alternative 3. Nonetheless, additional construction BMPs set forth in Metro’s Green Construction Policy would further reduce construction-related emissions beyond what is presented. Since certain

construction details have not yet been determined, the following BMPs were not accounted for in the construction emission estimates. These BMPs include but are not limited to the required use of renewable diesel fuel in construction equipment; the required use of Tier 4 off-road emission standard equipment as regionally available; the required use of USEPA 2007 on-road emission standard compliant trucks; the limitation of vehicle idling to 5 minutes or fewer when not in use; and the use of grid-power in lieu of diesel generators where available. In particular, the use of Tier 4 off-road emission standard equipment would result in reduced emissions of NO_x, since the Tier 3 (next highest after Tier 4) emission standard is an order of magnitude higher than the Tier 4 standard (i.e., use of exclusively Tier 4 equipment could reduce direct NO_x emissions by up to 90 percent).

Design Options

Atlantic/Pomona Station Option

As described above, the construction of the base Alternative 3 would result in construction regional criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of Alternative 3 with the Atlantic/Pomona Station Option would result in daily construction regional criteria pollutant emissions that would be the same as those of the base Alternative 3. While the Atlantic/Pomona Station Option would be located at a different position along the alignment and approximately 50 additional feet of underground alignment would be required to complete its construction; that excavation would be completed with the electrically powered TBM and would not result in a change in project peak day emissions. Moreover, the magnitude of excavation activity which would be required to implement the Atlantic/Pomona Station Option would be essentially the same as that required under the base Alternative 3 for the excavation of the TBM receiving pit and underground-to-at-grade transition of the alignment. Therefore, construction of Alternative 3 with the Atlantic/Pomona Station Option would result in daily construction regional emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant.

Montebello At-Grade Option

As described above, the construction of the base Alternative 3 would result in construction regional criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of Alternative 3 with the Montebello At-Grade Option would result in daily construction regional criteria pollutant emissions that would be greater than those of the base Alternative 3 as presented in **Table 7-6**. Construction of the at-grade segment in Montebello under the Montebello At-Grade Option has a higher peak day emission than an aerial configuration at this location due to a larger count of heavy-duty equipment needed during the peak day. This additional equipment is associated with the greater amount of roadway demolition, modification, or reconstruction necessary for the at-grade construction as compared to aerial construction. However, construction of the Montebello At-Grade Option is not expected to overlap with other project elements to contribute to overall peak day regional emissions of VOC, NO_x, CO, SO₂, PM₁₀, or PM_{2.5}. Therefore, as presented in **Table 7-6** above, construction of Alternative 3 with the Montebello At-Grade Option would result in daily construction regional emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant.

7.2.4 Maintenance and Storage Facilities

As detailed in **Sections 7.1.1, 7.1.2, and 7.1.3** for each Build Alternative respectively, the construction and subsequent operation of the Project would not result in regional criteria pollutant emissions that would exceed SCAQMD thresholds. Operation and construction of an MSF is essential in maintaining a reliable light rail system and MSF emissions were included in the assessment of regional criteria pollutant emissions.

Therefore, operation and construction of an MSF would not result in regional criteria pollutant emissions that would exceed SCAQMD thresholds and impacts with respect to regional criteria pollutant emissions would be less than significant.

7.2.4.1 Operational Impacts

7.2.4.1.1 Commerce MSF

As described above, operation of the Project, including operation of the Commerce MSF site option, would not result in regional criteria pollutant emissions that would exceed SCAQMD thresholds. **Table 7-1, Table 7-3, and Table 7-5** present operational regional criteria pollutant emissions for each Build Alternative, including emissions associated with operation of the Commerce MSF site option. Impacts from the operation of the Commerce MSF site option with respect to operational regional criteria pollutant emissions would be less than significant.

7.2.4.1.2 Montebello MSF

As described above, operation of the Project, including operation of the Montebello MSF site option, would not result in regional criteria pollutant emissions that would exceed SCAQMD thresholds. Implementation of the Montebello MSF site option would not result in a change to daily operational regional criteria pollutant emissions. **Table 7-1 and Table 7-5** present operational regional criteria pollutant emissions for Alternative 1 and Alternative 3 respectively, including emissions associated with operation of the Montebello MSF site option. Impacts from the operation of the Montebello MSF site option with respect to operational regional criteria pollutant emissions would be less than significant.

Design Options

Montebello MSF At-Grade Option

As described above, operation of the Project, including the Montebello MSF At-Grade Option, would not result in regional criteria pollutant emissions that would exceed SCAQMD thresholds. Implementation of the Montebello MSF At-Grade Option would not result in a change to daily operational regional criteria air pollutant emissions. **Table 7-1 and Table 7-5** present operational regional criteria pollutant emissions for Alternative 1 and Alternative 3 respectively, including emissions associated with operation of the Montebello MSF At-Grade Option. Impacts from the operation of the Montebello MSF At-Grade Option with respect to operational regional criteria pollutant emissions would be less than significant.

7.2.4.2 Construction Impacts

The site footprints of the Commerce MSF and Montebello MSF site options would be 24 and 30 acres respectively. Due to the presence of existing facilities at each MSF site option, the Montebello MSF site option would require a longer overall construction duration because of the additional demolition and site clearing necessary at the larger site. Despite these differences, actual daily site clearing, demolition, and construction activities for each site option would be comparable and peak daily construction regional criteria pollutant emissions would be the same for either the Commerce MSF site option, the Montebello MSF site option, or the Montebello MSF At-Grade Option.

7.2.4.2.1 Commerce MSF

As described above, the construction of the Project, including the construction of the Commerce MSF site option, would not result in regional criteria pollutant emissions that would exceed SCAQMD thresholds. **Table 7-2**, **Table 7-4**, and **Table 7-6** present construction regional criteria pollutant emissions for each Build Alternative, including emissions associated with construction of the Commerce MSF site option. Construction of the Commerce MSF site option would be expected to overlap with other project elements to contribute to overall peak day regional emissions of VOC, NO_x, CO, SO₂, PM₁₀, and PM_{2.5}. However, as presented previously, construction of the Project would result in peak daily construction regional emissions that would be less than the SCAQMD regional significance thresholds irrespective of the MSF site option selected. Impacts from construction of the Commerce MSF site option with respect to construction regional criteria pollutant emissions would be less than significant.

7.2.4.2.2 Montebello MSF

As described above, the construction of the Project would not result in regional criteria pollutant emissions that would exceed SCAQMD thresholds. **Table 7-2** and **Table 7-6** present construction regional criteria pollutant emissions for Alternative 1 and Alternative 3 respectively, including emissions associated with construction of the Montebello MSF site option. Construction of the Montebello MSF site option would be expected to overlap with other project elements to contribute to overall peak day regional emissions of VOC, NO_x, CO, SO₂, PM₁₀, and PM_{2.5}. However, as presented previously, construction of the Project would result in peak daily construction regional emissions that would be less than the SCAQMD regional significance thresholds irrespective of the MSF site option selected. Impacts from construction of the Montebello MSF site option with respect to construction regional criteria pollutant emissions would be less than significant.

Design Options

Montebello MSF At-Grade Option

As described above, the construction of the Project would result in construction regional criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of the Montebello MSF At-Grade Option would result in daily construction regional criteria pollutant emissions that would be similar to the Montebello MSF site option and greater than those of the base Alternative 1 and base Alternative 3. Construction of the base Alternative 1, base Alternative 3, Alternative 1 with the Montebello MSF At-Grade Option, or Alternative 3 with the Montebello MSF At-

Grade Option would be expected to overlap with other project elements to contribute to overall peak day regional emissions of VOC, NO_x, CO, SO₂, PM₁₀, or PM_{2.5}. Therefore, as presented in **Table 7-2** and **Table 7-6** for Alternative 1 and Alternative 3 respectively, construction of the Project would result in daily construction regional criteria pollutant emissions that would be less than the SCAQMD thresholds irrespective of the MSF site option or design option selected. Impacts from construction of the Montebello MSF At-Grade Option with respect to construction regional criteria pollutant emissions would be less than significant.

7.3 Impact AQ-3: Localized Pollutant Concentrations

Impact AQ-3: Would a Build Alternative expose sensitive receptors to substantial pollutant concentrations?

7.3.1 Alternative 1 Washington Boulevard

7.3.1.1 Operational Impacts

Operational criteria air pollutant emission sources under Alternative 1 with the potential to result in substantial pollutant concentrations include exhaust from motor vehicle VMT. Within the Project's urban setting, the primary localized operational pollutant of concern is CO.

The highest CO concentrations are typically found close to congested roadways. These CO points of peak concentrations, known as CO Hot Spots, are a function of roadway congestion and hourly traffic volumes along local roadway segments, particularly at intersections. Although the Project would reduce regional VMT, and therefore reduce traffic volumes at roadway intersections in the DSA, certain local roadway intersections would see increased traffic volumes as a result of the Project. The highest-volume intersections identified in the DSA under Alternative 1 are the intersection of Pioneer Boulevard and Washington Boulevard with 6,070 vehicles per hour, and the intersection of Norwalk Boulevard and Washington Boulevard with 6,046 vehicles per hour. In the 2017 update to the *BAAQMD CEQA Guidelines*, BAAQMD indicated that intersections with traffic volumes less than 44,000 vehicles per hour, or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadways), would not result in substantial CO concentrations. Since the highest-volume intersections identified in the DSA would have traffic volumes below that of the BAAQMD screening threshold, operation of Alternative 1 would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant emissions would be less than significant.

Design Options

Atlantic/Pomona Station Option

As described above, the operation of the base Alternative 1 would result in intersection traffic volumes that would be below screening threshold and impacts with respect to operational localized criteria pollutant emissions would be less than significant. Operation of Alternative 1 with the Atlantic/Pomona Station Option would result in no meaningful change to operational localized criteria air pollutant emissions as compared to the base alternative. Since the highest-volume intersections identified in the DSA would have traffic volumes below that of the BAAQMD screening threshold, operation of Alternative 1 with the Atlantic/Pomona Station Option would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant emissions would be less than significant.

Montebello At-Grade Option

As described above, the operation of the base Alternative 1 would result in intersection traffic volumes that would be below screening threshold and impacts with respect to operational localized criteria pollutant emissions would be less than significant. Operation of Alternative 1 with the Montebello At-Grade Option would result in no meaningful change to operational localized criteria air pollutant emissions as compared to the base alternative. Since the highest-volume intersections identified in the DSA would have traffic volumes below that of the BAAQMD screening threshold, operation of Alternative 1 with the Montebello At-Grade Option would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant emissions would be less than significant.

7.3.1.2 Construction Impacts

Construction criteria air pollutant emission sources under Alternative 1 with the potential to result in substantial pollutant concentrations include exhaust from heavy-duty construction equipment operating on-site and fugitive construction emissions. Consistent with SCAQMD LST guidance, off-site emissions, such as those from worker vehicle and hauling or delivery vehicle exhaust, would be distributed over the DSA and were not considered in the evaluation of localized impacts.

As shown in **Table 7-7**, construction of Alternative 1 would result in peak daily on-site emissions that would be less than the SCAQMD LSTs and impacts with respect to construction localized criteria pollutant concentrations would be less than significant.

Table 7-7. Build Alternative 1 Construction Localized Emissions

Emission Source	Daily On-Site Emissions (lbs/day)			
	CO	NO _x	PM ₁₀	PM _{2.5}
Montebello Segment – Base Alternative and Design Option¹				
Base Alternative 1 (aerial)	9.7	11.1	0.5	0.4
At-Grade Option	13.6	11.4	1.8	1.1
MSF Site Options²				
Commerce MSF	12.3	10.4	1.1	0.5
Montebello MSF	12.3	10.4	1.1	0.5
Alternative 1 Overall Construction				
Maximum Total ³	107.8	82.3	6.6	4.8
SCAQMD LST ⁴	1,480	172	14.0	7.0
Exceeds Threshold	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

1 Localized emissions associated with construction of the Montebello segment of the alignment.

2 Only one MSF site option would be selected.

3 Totals represent the maximum overlapping construction emissions for all Project-elements that may overlap the overall construction peak day, including staging area options and the Montebello At-Grade Option that has greater localized construction emissions than the base Alternative 1. See Attachment D for hot spots calculations.

4 Thresholds are for the Southeast Los Angeles County SRA assuming a 25-meter receptor distance and a 5-acre site.

Key:

CO = carbon monoxide; lbs/day = pounds per day; LST = localized significance threshold; MSF = maintenance and storage facility;

 NO_x = nitrogen oxides; PM_{2.5} = fine particulate matter; PM₁₀ = inhalable particulate matter; SRA = source receptor area

Design Options

Atlantic/Pomona Station Option

As described above, the construction of the base Alternative 1 would result in construction localized criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of Alternative 1 with the Atlantic/Pomona Station Option would result in daily construction localized criteria pollutant emissions that would be the same as those of the base Alternative 1. While the Atlantic/Pomona Station Option would be located at a different position along the alignment and approximately 50 additional feet of underground alignment would be required to complete its construction, that excavation would be completed with the electrically powered TBM and would not result a change in project peak day emissions. Moreover, the magnitude of excavation activity which would be required to implement the Atlantic/Pomona Station Option would be essentially the same as that required under the base Alternative 1 for the excavation of the TBM receiving pit and underground-to-at-grade transition of the alignment. Therefore, construction of Alternative 1 with the Atlantic/Pomona Station Option would result in daily construction localized emissions that would be less than the SCAQMD thresholds and impacts with respect to construction localized criteria pollutant emissions would be less than significant.

Montebello At-Grade Option

As described above, the construction of Alternative 1 would result in construction localized criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction localized criteria pollutant emissions would be less than significant. Implementation of the Montebello At-Grade Option would result in localized criteria pollutant emissions that would be greater than those of base Alternative 1. Similar to construction of the base Alternative 1, the Montebello At-Grade Option would be expected to overlap with other project elements to contribute to overall peak day regional emissions of NO_x, CO, PM₁₀, or PM_{2.5}. However, as presented in **Table 7-7**, construction of Alternative 1 with the Montebello At-Grade Option would result in construction localized emissions that would be less than the SCAQMD thresholds and impacts with respect to construction localized criteria pollutant concentrations would be less than significant.

7.3.2 Alternative 2 Atlantic to Commerce/Citadel IOS

7.3.2.1 Operational Impacts

Operational criteria air pollutant emission sources under Alternative 2 with the potential to result in substantial pollutant concentrations include exhaust from motor vehicle VMT. Within the Project's urban setting, the primary localized pollutant of concern is CO.

The highest CO concentrations are typically found close to congested roadways. These CO points of peak concentrations, known as CO Hot Spots, are a function of roadway congestion and hourly traffic volumes along local roadway segments, particularly at intersections. Although the Project would reduce regional VMT, and therefore reduce traffic volumes at roadway intersections in the DSA, certain local roadway intersections would see increased traffic volumes as a result of the project. The highest-volume intersections identified in the study area under Alternative 2 were the intersection of Pioneer Boulevard and Washington Boulevard with 6,070 vehicles per hour, and the intersection of Norwalk Boulevard and Washington Boulevard with 6,046 vehicles per hour. In the 2017 update to the *BAAQMD CEQA Guidelines*, BAAQMD indicated that intersections with traffic volumes less than 44,000 vehicles per hour, or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadways), would not result in substantial CO concentrations. Since the highest-volume intersections identified in the DSA would have traffic volumes below that of the BAAQMD screening threshold, the operation of Alternative 2 would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant emissions would be less than significant.

Design Option

Atlantic/Pomona Station Option

As described above, the operation of the base Alternative 2 would result in intersection traffic volumes that would be below screening threshold and impacts with respect to operational localized criteria pollutant emissions would be less than significant. Operation of Alternative 2 with the

Atlantic/Pomona Station Option would result in no meaningful change to operational localized criteria air pollutant emissions as compared to the base alternative. Since the highest-volume intersections identified in the DSA would have traffic volumes below that of the BAAQMD screening threshold, operation of Alternative 2 with the Atlantic/Pomona Station Option would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant emissions would be less than significant.

7.3.2.2 Construction Impacts

Construction criteria air pollutant emission sources under Alternative 2 with the potential to result in substantial pollutant concentrations include exhaust from heavy-duty construction equipment operating on-site and fugitive construction emissions. Consistent with SCAQMD LST guidance, off-site emissions, such as those from worker vehicle and hauling or delivery vehicle exhaust, would be distributed over the DSA and were not considered in the evaluation of localized impacts.

As presented in **Table 7-8**, construction of Alternative 2 would result in peak daily on-site emissions that would be less than the SCAQMD LSTs and impacts with respect to construction localized criteria pollutant concentrations would be less than significant.

Table 7-8. Build Alternative 2 Construction Localized Emissions

Emission Source	Daily On-Site Emissions (lbs/day)			
	CO	NO _x	PM ₁₀	PM _{2.5}
MSF Site Options				
Commerce MSF	12.3	10.4	1.1	0.5
Alternative 2 Overall Construction				
Maximum Total ¹	80.6	72.7	3.7	3.0
SCAQMD LST ²	1,480	172	14.0	7.0
Exceeds Threshold	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

1 Totals represent the maximum overlapping construction emissions for all Project-elements including the greater of any alternative staging options, which may overlap the overall construction peak day. See Attachment D for hot spots calculations.

2 Thresholds are for the Southeast Los Angeles County SRA assuming a 25-meter receptor distance and a 5-acre site.

Key:

CO = carbon monoxide; lbs/day = pounds per day; LST = localized significance threshold; MSF = maintenance and storage facility;

NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SRA = source receptor area

Design Option

Atlantic/Pomona Station Option

As described above, the construction of the base Alternative 2 would result in construction localized criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of Alternative 2 with the Atlantic/Pomona Station Option would result in daily construction localized criteria pollutant emissions that would be the same as those of the base Alternative 2. While the Atlantic/Pomona Station Option would be located at a different position along the alignment and approximately 50 additional feet of underground alignment would be required to complete its construction, that excavation would be completed with the electrically powered TBM and would not result a change in project peak day emissions. Moreover, the magnitude of excavation activity which would be required to implement the Atlantic/Pomona Station Option would be essentially the same as that required under the base Alternative 2 for the excavation of the TBM receiving pit and underground-to-at-grade transition of the alignment. Therefore, construction of Alternative 2 with the Atlantic/Pomona Station Option would result in daily construction localized emissions that would be less than the SCAQMD thresholds and impacts with respect to construction localized criteria pollutant emissions would be less than significant.

7.3.3 Alternative 3 Atlantic to Greenwood IOS

7.3.3.1 Operational Impacts

Operational criteria air pollutant emission sources under Alternative 3 with the potential to result in substantial pollutant concentrations include exhaust from motor vehicle VMT. Within the Project's urban setting, the primary localized pollutant of concern is CO.

The highest CO concentrations are typically found close to congested roadways. These CO points of peak concentrations, known as CO Hot Spots, are a function of roadway congestion and hourly traffic volumes along local roadway segments, particularly at intersections. Although the Project would reduce regional VMT, and therefore reduce traffic volumes at roadway intersections in the DSA, certain local roadway intersections would see increased traffic volumes as a result of the Project. The highest-volume intersections identified in the DSA under Alternative 3 were the intersection of Pioneer Boulevard and Washington Boulevard with 6,070 vehicles per hour, and the intersection of Norwalk Boulevard and Washington Boulevard with 6,046 vehicles per hour. In the 2017 update to the *BAAQMD CEQA Guidelines*, BAAQMD indicated that intersections with traffic volumes less than 44,000 vehicles per hour, or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadways), would not result in substantial CO concentrations. Since the highest-volume intersections identified in the DSA would have traffic volumes below that of the BAAQMD screening threshold, operation of Alternative 3 would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant concentrations would be less than significant.

Design Options

Atlantic/Pomona Station Option

As described above, the operation of the base Alternative 3 would result in intersection traffic volumes that would be below screening threshold and impacts with respect to operational localized criteria pollutant emissions would be less than significant. Operation of Alternative 3 with the Atlantic/Pomona Station Option would result in no meaningful change to operational localized criteria air pollutant emissions as compared to the base alternative. Since the highest-volume intersections identified in the DSA would have traffic volumes below that of the BAAQMD screening threshold, the operation of Alternative 3 with the Atlantic/Pomona Station Option would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant emissions would be less than significant.

Montebello At-Grade Option

As described above, the operation of the base Alternative 3 would result in intersection traffic volumes that would be below screening threshold and impacts with respect to operational localized criteria pollutant emissions would be less than significant. Operation of Alternative 3 with the Montebello At-Grade Option would result in no meaningful change to operational localized criteria air pollutant emissions as compared to the base alternative. Since the highest-volume intersections identified in the DSA would have traffic volumes below that of the BAAQMD screening threshold, operation of Alternative 3 with the Montebello At-Grade Option would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant concentrations would be less than significant.

7.3.3.2 Construction Impacts

Construction criteria air pollutant emission sources under Alternative 3 with the potential to result in substantial pollutant concentrations include exhaust from heavy-duty construction equipment operating on-site and fugitive construction emissions. Consistent with SCAQMD guidance, off-site emissions, such as those from worker vehicle and hauling or delivery vehicle exhaust, would be distributed over the DSA and were not considered in the evaluation of localized impacts.

As presented in **Table 7-9**, construction of Alternative 3 would result in peak daily on-site emissions that would be less than the SCAQMD LSTs and impacts with respect to construction localized criteria pollutant concentrations would be less than significant.

Table 7-9. Build Alternative 3 Construction Localized Emissions

Emission Source	Daily On-Site Emissions (lbs/day)			
	CO	NO _x	PM ₁₀	PM _{2.5}
Montebello Segment – Base Alternative and Design Option¹				
Base Alternative 1 (aerial)	9.7	11.1	0.5	0.4
At-Grade Option	13.6	11.4	1.8	1.1
MSF Site Options²				
Commerce MSF	12.3	10.4	1.1	0.5
Montebello MSF	12.3	10.4	1.1	0.5
Alternative 3 Overall Construction				
Maximum Total ³	85.9	75.0	4.4	3.2
SCAQMD LST ⁴	1,480	172	14.0	7.0
Exceeds Threshold	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

¹ Localized emissions associated with construction of the Montebello segment of the alignment.

² Only one MSF site option would be selected.

³ Totals represent the maximum overlapping construction emissions for all Project-elements that may overlap the overall construction peak day, including staging area options and the Montebello At-Grade Option that has greater localized construction emissions than the base Alternative 3. See Attachment D for hot spots calculations.

⁴ Thresholds are for the Southeast Los Angeles County SRA assuming a 25-meter receptor distance and a 5-acre site.

Key:

CO = carbon monoxide; lbs/day = pounds per day; LST = localized significance threshold; MSF = maintenance and storage facility;

 NO_x = nitrogen oxides; PM₁₀ = inhalable particulate matter; PM_{2.5} = fine particulate matter; SRA = source receptor area

Design Options

Atlantic/Pomona Station Option

As described above, the construction of the base Alternative 3 would result in construction localized criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of Alternative 3 with the Atlantic/Pomona Station Option would result in daily construction localized criteria pollutant emissions that would be the same as those of the base Alternative 3. While the Atlantic/Pomona Station Option would be located at a different position along the alignment and approximately 50 additional feet of underground alignment would be required to complete its construction, that excavation would be completed with the electrically powered TBM and would not result a change in project peak day emissions. Moreover, the magnitude of excavation activity which would be required to implement the Atlantic/Pomona Station Option would be essentially the same as that required under the base Alternative 3 for the excavation of the TBM receiving pit and underground-to-at-grade transition of the alignment. Therefore, construction of Alternative 3 with the Atlantic/Pomona Station Option would result in daily construction localized emissions that would be less than the SCAQMD thresholds and impacts with respect to construction localized criteria pollutant emissions would be less than significant.

Montebello At-Grade Option

As described above, the construction of Alternative 3 would result in construction localized criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction localized criteria pollutant emissions would be less than significant. Implementation of the Montebello At-Grade Option would result in localized criteria pollutant emissions that would be greater than those of the base Alternative 3. Similar to construction of the base Alternative 3, the Montebello At-Grade Option would be expected to overlap with other project elements to contribute to overall peak day regional emissions of NO_x, CO, PM₁₀, or PM_{2.5}. However, as presented in **Table 7-9** above, construction of Alternative 3 with the Montebello At-Grade Option would result in construction localized emissions that would be less than the SCAQMD thresholds and impacts with respect to construction localized criteria pollutant concentrations would be less than significant.

7.3.4 Maintenance and Storage Facilities

As detailed in **Sections 7.3.1, 7.3.2, and 7.3.3** for each Build Alternative respectively, the construction and subsequent operation of the Project would not result in localized criteria pollutant emissions that would exceed the applicable screening criteria. Construction and operation of an MSF is essential in maintaining a reliable light rail system and MSF emissions were included in the assessment localized criteria pollutant impacts.

Therefore, construction and operation of an MSF would not result in localized criteria pollutant emissions that would exceed the applicable screening criteria and impacts with respect to localized criteria pollutant concentrations would be less than significant.

7.3.4.1 Operational Impacts

7.3.4.1.1 Commerce MSF

As described above, operational localized pollutant concentration impacts for each Build Alternative would be driven by daily traffic volumes along roadway segments within the DSA and operation of the Commerce MSF site option would not substantially contribute to localized pollutant concentration impacts. Impacts from operation of the Commerce MSF site option with respect to localized criteria pollutant concentrations would be less than significant.

7.3.4.1.2 Montebello MSF

As described above, operational localized pollutant concentration impacts for each Build Alternative would be driven by daily traffic volumes along roadway segments within the DSA and operation of the Montebello MSF site option would not substantially contribute to localized pollutant concentration impacts. Impacts from operation of the Montebello MSF site option with respect to localized criteria pollutant concentrations would be less than significant.

Design Options

Montebello MSF At-Grade Option

As described above, operation of the Project, including with implementation of an MSF, would not result in operational localized criteria pollutant impacts that would exceed the applicable screening criteria. Implementation of the Montebello MSF At-Grade Option would result in no meaningful change to operational localized criteria air pollutant concentrations as compared to the Montebello MSF site option under the base Alternative 1 and base Alternative 3. Impacts from operation of the Montebello MSF At-Grade Option with respect to localized criteria pollutant concentrations would be less than significant.

7.3.4.2 Construction Impacts

The site footprints of the Commerce MSF and Montebello MSF site options would be 24 and 30 acres respectively. Due to the presence of existing facilities at each MSF site, the Montebello MSF site option would require a longer overall construction duration because of the additional demolition and site clearing necessary at the larger site. Despite these differences, actual daily site clearing, demolition, and construction activities for each site option would be comparable and peak daily construction localized criteria pollutant emissions would be the same for either the Commerce MSF site option, the Montebello MSF site option, or the Montebello MSF At-Grade Option.

7.3.4.2.1 Commerce MSF

As described above, the construction of the Project, including the construction of the Commerce MSF site option, would not result in localized criteria pollutant impacts that would exceed SCAQMD LST thresholds. **Table 7-7**, **Table 7-8**, and **Table 7-9** present construction localized criteria pollutant emissions, including emissions associated with construction of the Commerce MSF site option. Construction of the Commerce MSF site option would be expected to overlap with other Project elements to contribute to overall peak day localized emissions of NO_x, CO, PM₁₀, and PM_{2.5}. However, as presented previously, construction of the Project would result in peak daily construction localized emissions that would be less than the SCAQMD LSTs irrespective of the MSF site option selected. Thus, impacts from construction of the Commerce MSF site option with respect to localized criteria pollutant concentrations would be less than significant.

7.3.4.2.2 Montebello MSF

As described above, the construction of the Project, including the Montebello MSF site option, would not result in localized criteria pollutant impacts that would exceed SCAQMD LST thresholds. **Table 7-7** and **Table 7-9** present construction localized criteria pollutant emissions for Alternative 1 and Alternative 3, including emissions associated with construction of the Montebello MSF site option. Construction of the Montebello MSF site option would be expected to overlap with other Project elements to contribute to overall peak day localized emissions of NO_x, CO, PM₁₀, and PM_{2.5}. However, as presented previously, construction of the Project would result in peak daily construction localized emissions that would be less than the SCAQMD LSTs irrespective of the MSF site option selected. Thus, impacts from construction of the Montebello MSF site option with respect to localized criteria pollutant concentrations would be less than significant.

Design Options

Montebello MSF At-Grade Option

As described above, the construction of the Project, including the Montebello MSF site option, would result in construction regional criteria air pollutant emissions that would be less than the SCAQMD thresholds and impacts with respect to construction regional criteria pollutant emissions would be less than significant. Implementation of the Montebello MSF At-Grade Option would result in daily construction regional criteria pollutant emissions that would be similar to the Montebello MSF site option and greater than the Commerce MSF site option as shown in **Table 7-7** and **Table 7-9**.

Construction of the Montebello MSF At-Grade Option would be expected to overlap with other Project elements to contribute to overall peak day localized emissions of NO_x, CO, PM₁₀, or PM_{2.5}. However, as presented in **Table 7-7** and **Table 7-9** for Alternative 1 and Alternative 3 respectively, construction of the Project would result in daily construction localized criteria pollutant emissions that would be less than the SCAQMD thresholds irrespective of the MSF site option or design option selected. Thus, impacts from construction of the Montebello MSF At-Grade Option with respect to localized criteria pollutant concentrations would be less than significant.

7.4 Impact AQ-4: Other Emissions

Impact AQ-4: Would a Build Alternative result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

7.4.1 Alternative 1 Washington Boulevard

7.4.1.1 Operational Impacts

Other operational emission sources under Alternative 1 with the potential to adversely affect a substantial number of people include waste from passengers accessing the stations.

SCAQMD has established Rule 402 (Nuisance), which prevents nuisance odor conditions through the establishment of odor complaint tracking systems and other requirements. Typical sources of potentially-nuisance odors include agricultural uses, wastewater treatment facilities, food processing and chemical plants, landfills, and refineries. Trash receptacles at stations would be a relatively unsubstantial source of odors and would be subject to regular servicing, maintenance, and cleaning as to prevent unpleasant odors at the station, and the operation of Alternative 1 would not result in unpleasant odors that would affect a substantial number of people.

Therefore, operation of Alternative 1 would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Design Options

Atlantic/Pomona Station Option

Similar to the base Alternative 1, the operation of Alternative 1 with the Atlantic/Pomona Station Option would comply with applicable rules established for the control of odors. Therefore, operation of Alternative 1 with Atlantic/Pomona Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Montebello At-Grade Option

Similar to the base Alternative 1, the operation of Alternative 1 with the Montebello At-Grade Option would comply with applicable rules established for the control of odors. Therefore, operation of Alternative 1 with the Montebello At-Grade Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.1.2 Construction Impacts

Other construction emission sources under Alternative 1 with the potential to adversely affect a substantial number of people include odors from diesel vehicle exhaust.

Diesel vehicle exhaust has a distinctive odor and the use of diesel-fueled equipment during construction would have the potential to generate near-field odors that may be considered unpleasant to certain individuals. Construction of Alternative 1 would occur over a broad area and would be completed in sequential segments, therefore a receptor's exposure to potential unpleasant construction-related near-field odors would be temporary and short-term. Due to the temporary and highly mobile nature of project construction, the construction of Alternative 1 would not result in unpleasant odors that would affect a substantial number of people.

Therefore, construction of Alternative 1 would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Design Options

Atlantic/Pomona Station Option

As with the base Alternative 1, construction of Alternative 1 with the Atlantic/Pomona Station Option would result in odors that would be short term, highly mobile, and controlled. Thus, construction of Alternative 1 with the Atlantic/Pomona Station Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Montebello At-Grade Option

As with the base Alternative 1, construction of Alternative 1 with the Montebello At-Grade Option would result in odors that would be short term, highly mobile, and controlled. Thus, construction of Alternative 1 with the Montebello At-Grade Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.2 Alternative 2 Atlantic to Commerce/Citadel IOS

7.4.2.1 Operational Impacts

Other operational emission sources under Alternative 2 with the potential to adversely affect a substantial number of people include waste from passengers accessing the stations.

SCAQMD has established Rule 402 (Nuisance), which prevents nuisance odor conditions through the establishment of odor complaint tracking systems and other requirements. Typical sources of potentially-nuisance odors include agricultural uses, wastewater treatment facilities, food processing and chemical plants, landfills, and refineries. Trash receptacles at stations would be a relatively unsubstantial source of odors and would be subject to regular servicing, maintenance, and cleaning as to prevent unpleasant odors at the stations, and the operation of Alternative 2 would not result in unpleasant odors that would affect a substantial number of people.

Therefore, operation of Alternative 2 would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Design Option

Atlantic/Pomona Station Option

Similar to the base Alternative 2, operation of Alternative 2 with the Atlantic/Pomona Station Option would comply with applicable rules established for the control of odors. Thus, operation of Alternative 2 with the Atlantic/Pomona Station Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.2.2 Construction Impacts

Other construction emission sources under Alternative 2 with the potential to adversely affect a substantial number of people include odors from diesel vehicle exhaust.

Diesel vehicle exhaust has a distinctive odor and the use of diesel-fueled equipment during construction would have the potential to generate near-field odors that may be considered unpleasant to certain individuals. Construction of Alternative 2 would occur over a broad area and would be

completed in sequential segments; therefore, a receptor's exposure to potential unpleasant construction-related near-field odors would be temporary and short-term. Due to the temporary and highly mobile nature of project construction, the construction of Alternative 2 would not result in unpleasant odors that would affect a substantial number of people.

Thus, construction of Alternative 2 would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Design Option

Atlantic/Pomona Station Option

As with the base Alternative 2, construction of Alternative 2 with the Atlantic/Pomona Station Option would result in odors that would be short term, highly mobile, and controlled. Thus, construction of Alternative 2 with the Atlantic/Pomona Station Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.3 Alternative 3 Atlantic to Greenwood IOS

7.4.3.1 Operational Impacts

Other operational emission sources under Alternative 3 with the potential to adversely affect a substantial number of people include waste from passengers accessing the stations.

SCAQMD has established Rule 402 (Nuisance), which prevents nuisance odor conditions through the establishment of odor complaint tracking systems and other requirements. Typical sources of potentially-nuisance odors include agricultural uses, wastewater treatment facilities, food processing and chemical plants, landfills, and refineries. Trash receptacles at stations would be a relatively unsubstantial source of odors and would be subject to regular servicing, maintenance, and cleaning as to prevent unpleasant odors at the stations, and the operation of Alternative 3 would not result in unpleasant odors that would affect a substantial number of people.

Thus, operation of Alternative 3 would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Design Options

Atlantic/Pomona Station Option

Similar to the base Alternative 3 as described above, the operation of Alternative 3 with the Atlantic/Pomona Station Option would comply with applicable rules established for the control of odors. Thus, operation of Alternative 3 with the Atlantic/Pomona Station Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Montebello At-Grade Option

As with the base Alternative 3 described above, the operation of Alternative 3 with the Montebello At-Grade Option would comply with applicable rules established for the control of odors. Thus, operation of Alternative 3 with the Montebello At-Grade Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.3.2 Construction Impacts

Other construction emission sources under Alternative 3 with the potential to adversely affect a substantial number of people include odors from diesel vehicle exhaust.

Diesel vehicle exhaust has a distinctive odor and the use of diesel-fueled equipment during construction would have the potential to generate near-field odors that may be considered unpleasant to certain individuals. Construction of Alternative 3 would occur over a broad area and would be completed in sequential segments; therefore, a receptor's exposure to potential unpleasant construction-related near-field odors would be temporary and short-term. Due to the temporary and highly mobile nature of project construction, the construction of Alternative 3 would not result in unpleasant odors that would affect a substantial number of people.

Thus, construction of Alternative 3 would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Design Options

Atlantic/Pomona Station Option

As with the base Alternative 3, construction of Alternative 3 with the Atlantic/Pomona Station Option would result in odors that would be short term, highly mobile, and controlled. Thus, construction of Alternative 3 with the Atlantic/Pomona Station Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Montebello At-Grade Option

As with the base Alternative 3, construction of Alternative 3 with the Montebello At-Grade Option would result in odors that would be short term, highly mobile, and controlled. Thus, construction of Alternative 3 with the Montebello At-Grade Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.4 Maintenance and Storage Facilities

As detailed in **Sections 7.4.1, 7.4.2, and 7.4.3**, the construction and subsequent operation of the Project would not result in other emissions that would adversely affect a substantial number of people.

Operation and construction of an MSF is essential in maintaining a reliable light rail system and MSF emissions were included in the assessment of other emissions.

7.4.4.1 Operational Impacts

Operation of an MSF would not be expected to generate substantial odors. Operational activities located at the MSF would include the use of common household cleaners, paints, adhesives, lubricants, and other common materials necessary to maintain LRT vehicles. These materials are not anticipated to generate odors detectable beyond the MSF property line. Therefore, operation of an MSF would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.4.1.1 Commerce MSF

As described above, operation of an MSF, including the Commerce MSF site option, would not result in substantial other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people. Impacts would be less than significant.

7.4.4.1.2 Montebello MSF

As described above, operation of an MSF, including the Montebello MSF site option, would not result in substantial other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people. Impacts would be less than significant.

Design Options

Montebello MSF At-Grade Option

As described above, operation of an MSF, including the Montebello MSF At-Grade Option, would not result in substantial other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people. Impacts would be less than significant.

7.4.4.2 Construction Impacts

While construction of an MSF would generate odors associated with diesel vehicle exhaust, impacts would be temporary and would not be expected to extend beyond the site boundary for substantial periods of time. Thus, construction of an MSF would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.4.2.1 Commerce MSF

As described above, the construction of the Project, including the construction of the Commerce MSF site option, would not result in other emissions with the potential to adversely affect a substantial number of people. Thus, construction of the Commerce MSF site option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.4.4.2.2 Montebello MSF

As described above, the construction of the Project including the construction of the Montebello MSF site option, would not result in other emissions with the potential to adversely affect a substantial number of people. Thus, construction of the Montebello MSF site option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

Design Options

Montebello MSF At-Grade Option

As described above, the construction of the Project including the construction of the Montebello MSF At-Grade Option, would not result in other emissions with the potential to adversely affect a substantial number of people. Thus, construction of the Montebello MSF At-Grade Option would have less than significant impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

7.5 Impact HR-1: Human Health Risks

Impact HR-1: Would a Build Alternative expose sensitive receptors to TAC that would be likely to cause a substantial increase in human health risks?

7.5.1 Alternative 1 Washington Boulevard

7.5.1.1 Operational Impacts

Operational TAC emission sources under Alternative 1 with the potential to cause a substantial increase in human health risks include exhaust from motor vehicle VMT.

As indicated in **Section 7.2.1.1**, regional emissions of PM₁₀ would be reduced under Alternative 1 while regional emissions of VOC would be increased. TAC are classified either as organic (a subset of VOC) or particulate (a subset of PM₁₀) compounds to which exposure can contribute to short-term (acute), long-term (chronic), or carcinogenic human health hazards. Since emissions of PM₁₀ would decrease from the operation of the Project, exposure to TAC from PM₁₀ for residents living and working within the DSA would also decrease. The primary TAC of concern for this analysis is DPM, a subset of PM₁₀ emissions that drives carcinogenic risks throughout the region. Although emissions of VOC would increase from the operation of the Project, exposure to TAC from VOC for residents living and working within the DSA would not substantially increase. VOC emission increases would be driven by the use of low-TAC content consumer products, including cleaners, adhesives, and paints at the MSF. Additionally, the MSF location would be in commercial and industrial areas away from residences and other sensitive receptors. High TAC-content VOC emissions, such as those from vehicle exhaust, would be decreased alongside PM₁₀ emissions proportional to the regional reductions in VMT. Therefore, the operation of Alternative 1 would not expose sensitive receptors to TAC that would be likely to cause a substantial increase in human health risks and impacts with respect to operational human health risk would be less than significant.

Design Options

Atlantic/Pomona Station Option

Similar to the base Alternative 1, operation of Alternative 1 with the Atlantic/Pomona Station Option would result in a reduction in relevant TAC emissions and impacts with respect to operational human health risk would be less than significant.

Montebello At-Grade Option

Similar to the base Alternative 1, operation of Alternative 1 with the Montebello At-Grade Option would result in a reduction in relevant TAC emissions and impacts with respect to operational human health risk would be less than significant.

7.5.1.2 Construction Impacts

Construction TAC emission sources under Alternative 1 with the potential to cause a substantial increase in human health risks include exhaust from heavy-duty construction equipment operating on-site and fugitive construction emissions. Off-site emissions, such as those from worker vehicle and hauling or delivery vehicle exhaust, would be distributed over the DSA and only the portion of these emissions that would occur near to sensitive receptors were considered in the evaluation of human health risks.

As explained in **Section 4.4**, localized TAC pollutant concentrations were evaluated using HRA screening criteria and a Tier 2 assessment was performed to evaluate local project TAC emissions. Tier 2 screening criteria are designed to be conservative and include a variety of assumptions intended to be protective of the most vulnerable individuals of a population. Moreover, the Alternative 1 Tier 2 HRA considered only construction-related emissions and did not account for the operational reductions to carcinogenic human health risks that would occur as a result of Project implementation as discussed in **Section 7.5.1.1**.

As shown in **Table 7-10**, construction of Alternative 1 would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

Table 7-10. Build Alternative 1 Tier 2 HRA Screening Results

Affected Organ System	Non-Cancer Health Hazards			Carcinogenic Health Risk	
	Acute HI (1-hr)	Chronic HI (1-yr)	Chronic HI (8-hr)	Resident ¹	Adult Worker
All Affected Organ Systems ²	0.0016	0.0034	0.0002	N/A	N/A
All Cancer ³	N/A	N/A	N/A	1.8 in one million	0.1 in one million
Maximum Total⁴	0.0016	0.0034	0.0002	1.8 in one million	0.1 in one million
Tier 2 Risk Threshold	1.0	1.0	1.0	10 in one million	10 in one million
Exceeds Threshold	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

- 1 Residential cancer risk incorporates the maximum exposure parameters, including age-related breathing rates and exposure factors, for potential residents ages 0 (third trimester) through 30.
- 2 TAC exposure affects each organ system (nervous, alimentary, cardiovascular, reproductive, etc.) differently. Acute and Chronic HIs are calculated as the combined effect of exposure to all TAC upon each organ system. The sum of HIs across all organ systems is presented.
- 3 Construction-related exposure to carcinogenic TAC anticipated to occur for two years (the minimum screening exposure duration). In reality, construction of any given alignment segment, and the associated TAC exposure of residents near to that segment, would occur over a period shorter than two years and impacts would be expected to be lower than presented.
- 4 Totals represent the maximum overlapping construction emissions for all project-elements including the greater of any TAC emissions associated with any design options or alternative staging areas.

Key:

HI = Hazard Index; hr = hour; N/A = not applicable; TAC = toxic air contaminant; yr = year

Design Options

Atlantic/Pomona Station Option

As presented previously in **Section 7.3.1**, implementation of the Atlantic/Pomona Station Option would result in localized criteria pollutant emissions that would be the same as those of the base Alternative 1. Therefore, as with the base Alternative 1, construction of Alternative 1 with the Atlantic/Pomona Station Option would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

Montebello At-Grade Option

As with the base Alternative 1 described above, the construction of Alternative 1 with the Montebello At-Grade Option would result in construction TAC emissions that would be less than the SCAQMD screening criteria and impacts with respect to construction human health risk would be less than significant. As presented previously in **Section 7.3.1**, implementation of the Montebello At-Grade Option would result in localized criteria pollutant emissions that would be greater than those of the base alternative. However, similar TAC emission sources and construction activities would be required to complete either the alternative with Montebello At-Grade Option or the base alternative, and the types and relative quantities of TAC emissions would be similar overall. Implementation of Alternative 1 with the Montebello At-Grade Option would be expected to result in greater TAC emissions and greater human health risk impacts as compared to the base alternative. The TAC emissions associated with implementation of the Montebello At-Grade Option are accounted for in the results presented in **Table 7-10**. As shown in **Table 7-10**, construction of Alternative 1 with the Montebello At-Grade Option

would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

7.5.2 Alternative 2 Atlantic to Commerce/Citadel IOS

7.5.2.1 Operational Impacts

Operational TAC emission sources under Alternative 2 with the potential to cause a substantial increase in human health risks include exhaust from motor vehicle VMT.

As indicated in **Section 7.2.1.1**, regional emissions of PM₁₀ would be reduced under Alternative 2 while regional emissions of VOC would be increased. TAC are either organic (a subset of VOC) or particulate (a subset of PM₁₀) compounds to which exposure can contribute to short-term (acute), long-term (chronic), or carcinogenic human health hazards. Since emissions of PM₁₀ would decrease from the operation of the Project, exposure to TAC from PM₁₀ for residents living and working within the DSA would also decrease. The primary TAC of concern for this analysis is DPM, a subset of PM₁₀ emissions that drives carcinogenic risks throughout the region. Although emissions of VOC would increase from the operation of the Project, exposure to TAC from VOC for residents living and working within the DSA would not substantially increase. VOC emission increases would be driven by the use of low-TAC content consumer products, including cleaners, adhesives, and paints at the MSF. Additionally, the MSF location would be in commercial and industrial areas away from residences and other sensitive receptors. High TAC-content VOC emissions, such as those from vehicle exhaust, would be decreased alongside PM₁₀ emissions proportional to the regional reductions in VMT. Therefore, the operation of Alternative 2 would not expose sensitive receptors to TAC that would be likely to cause a substantial increase in human health risks and impacts with respect to operational human health risk would be less than significant.

Design Option

Atlantic/Pomona Station Option

Similar to the base Alternative 2, operation of Alternative 2 with the Atlantic/Pomona Station Option would result in a reduction in relevant TAC emissions and impacts with respect to operational human health risk would be less than significant.

7.5.2.2 Construction Impacts

Construction TAC emission sources under Alternative 2 with the potential cause a substantial increase in human health risks include exhaust from heavy-duty construction equipment operating on-site and fugitive construction emissions. Off-site emissions, such as those from worker vehicle and hauling or delivery vehicle exhaust, would be distributed over the DSA and only the portion of these emissions that would occur near to sensitive receptors were considered in the evaluation of human health risks.

As explained in **Section 4.4**, localized TAC pollutant concentrations were evaluated using HRA screening criteria and a Tier 2 assessment was performed to evaluate local project TAC emissions. Tier 2 screening criteria are designed to be conservative and include a variety of assumptions designed to be protective of most vulnerable members of a population. Moreover, the Alternative 2 construction Tier 2 HRA considered only construction-related emissions and did not account for the operational reductions to carcinogenic human health risks that would occur as a result of Project implementation as discussed in **Section 7.5.2.1**.

As shown in **Table 7-11**, construction of Alternative 2 would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

Table 7-11. Build Alternative 2 Tier 2 HRA Screening Results

Affected Organ System	Non-Cancer Health Hazards			Carcinogenic Health Risk	
	Acute HI (1-hr)	Chronic HI (1-yr)	Chronic HI (8-hr)	Resident ¹	Adult Worker
All Affected Organ Systems ²	0.0020	0.0043	0.0003	N/A	N/A
All Cancer ³	N/A	N/A	N/A	2.2 in one million	0.1 in one million
Maximum Total⁴	0.0020	0.0043	0.0003	2.2 in one million	0.1 in one million
Tier 2 Risk Threshold	1.0	1.0	1.0	10 in one million	10 in one million
Exceeds Threshold	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

- 1 Residential cancer risk incorporates the maximum exposure parameters, including age-related breathing rates and exposure factors, for potential residents ages 0 (third trimester) through 30.
- 2 TAC exposure affects each organ system (nervous, alimentary, cardiovascular, reproductive, etc.) differently. Acute and Chronic HIs are calculated as the combined effect of exposure to all TAC upon each organ system. The sum of HIs across all organ systems is presented.
- 3 Construction-related exposure to carcinogenic TAC anticipated to occur for two years (the minimum screening exposure duration). In reality, construction of any given alignment segment, and the associated TAC exposure of residents near to that segment, would occur over a period shorter than two years and impacts would be expected to be lower than presented.
- 4 Totals represent the maximum overlapping construction emissions for all project-elements including the greater of any TAC emissions associated with alternative staging areas.

Key:

HI = Hazard Index; hr = hour; N/A = not applicable; TAC = toxic air contaminant; yr = year

Design Option

Atlantic/Pomona Station Option

As presented previously in **Section 7.3.2**, implementation of the Atlantic/Pomona Station Option would result in localized criteria pollutant emissions that would be the same as those of the base Alternative 2. Therefore, as with the base Alternative 2, construction of Alternative 2 with the Atlantic/Pomona Station Option would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

7.5.3 Alternative 3 Atlantic to Greenwood IOS

7.5.3.1 Operational Impacts

Operational TAC emission sources under Alternative 3 with the potential to cause a substantial increase in human health risks include exhaust from motor vehicle VMT.

As indicated in **Section 7.3.3.1**, regional emissions of PM₁₀ would be reduced under Alternative 3 while regional emissions of VOC would be increased. TAC are either organic (a subset of VOC) or particulate (a subset of PM₁₀) compounds to which exposure can contribute to short-term (acute), long-term (chronic), or carcinogenic human health hazards. Since emissions of PM₁₀ would decrease from the operation of the Project, exposure to TAC from PM₁₀ for residents living and working within the DSA would also decrease. The primary TAC of concern for this analysis is DPM, a subset of PM₁₀ emissions that drives carcinogenic risks throughout the region. Although emissions of VOC would increase from the operation of the Project, exposure to TAC from VOC for residents living and working within the DSA would not substantially increase. VOC emission increases would be driven by the use of low-TAC content consumer products, including cleaners, adhesives, and paints at the MSFs. Additionally, the MSF location would be in commercial and industrial areas away from residences and other sensitive receptors. High TAC-content VOC emissions, such as those from vehicle exhaust, would be decreased alongside PM₁₀ emissions proportional to the regional reductions in VMT. Therefore, operation of Alternative 3 would not expose sensitive receptors to TAC that would be likely to cause a substantial increase in human health risks and impacts with respect to operational human health risk would be less than significant.

Design Options

Atlantic/Pomona Station Option

Similar to the base Alternative 3, operation of Alternative 3 with the Atlantic/Pomona Station Option would result in a reduction in relevant TAC emissions and impacts with respect to operational human health risk would be less than significant.

Montebello At-Grade Option

Similar to the base Alternative 3, operation of Alternative 3 with the Montebello At-Grade Option would result in a reduction in relevant TAC emissions and impacts with respect to operational human health risk would be less than significant.

7.5.3.2 Construction Impacts

Construction TAC emission sources under Alternative 3 with the potential cause a substantial increase in human health risks include exhaust from heavy-duty construction equipment operating on-site and fugitive construction emissions. Off-site emissions, such as those from worker vehicle and hauling or delivery vehicle exhaust, would be distributed over the DSA and only the portion of these emissions that would occur near to sensitive receptors were considered in the evaluation of human health risks.

As explained in **Section 4.4**, localized TAC pollutant concentrations were evaluated using HRA screening criteria and a Tier 2 assessment was performed to evaluate local project TAC emissions. Tier 2 screening criteria are designed to be conservative and include a variety of assumptions designed to be protective of most vulnerable members of a population. Moreover, the Alternative 3 construction Tier 2 HRA considered only construction-related emissions and did not account for the operational reductions to carcinogenic human health risks that would occur as a result of Project implementation as discussed in **Section 7.5.3.1**.

As shown in **Table 7-12**, construction of Alternative 3 would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

Table 7-12. Build Alternative 3 Tier 2 HRA Screening Results

Affected Organ System	Non-Cancer Health Hazards			Carcinogenic Health Risk	
	Acute HI (1-hr)	Chronic HI (1-yr)	Chronic HI (8-hr)	Resident ¹	Adult Worker
All Affected Organ Systems ²	0.0017	0.0036	0.0002	N/A	N/A
All Cancer ³	N/A	N/A	N/A	1.8 in one million	0.1 in one million
Maximum Total⁴	0.0017	0.0036	0.0002	1.8 in one million	0.1 in one million
Tier 2 Risk Threshold	1.0	1.0	1.0	10 in one million	10 in one million
Exceeds Threshold	No	No	No	No	No

Source: CDM Smith/AECOM JV, 2021.

Notes:

- 1 Residential cancer risk incorporates the maximum exposure parameters, including age-related breathing rates and exposure factors, for potential residents ages 0 (third trimester) through 30.
- 2 TAC exposure affects each organ system (nervous, alimentary, cardiovascular, reproductive, etc.) differently. Acute and Chronic HIs are calculated as the combined effect of exposure to all TAC upon each organ system. The sum of HIs across all organ systems is presented.
- 3 Construction-related exposure to carcinogenic TAC anticipated to occur for two years (the minimum screening exposure duration). In reality, construction of any given alignment segment, and the associated TAC exposure of residents near to that segment, would occur over a period shorter than two years and impacts would be expected to be lower than presented.
- 4 Totals represent the maximum overlapping construction emissions for all project-elements including the greater of any TAC emissions associated with any design options or alternative staging areas.

Key:

HI = Hazard Index; hr = hour; N/A = not applicable; TAC = toxic air contaminant; yr = year

Design Options

Atlantic/Pomona Station Option

As presented previously in **Section 7.3.3**, implementation of the Atlantic/Pomona Station Option would result in localized criteria pollutant emissions that would be the same as those of the base Alternative 3. Therefore, as with the base Alternative 3, the construction of Alternative 3 with the Atlantic/Pomona Station Option would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

Montebello At-Grade Option

As with the base Alternative 3, the construction of Alternative 3 with the Montebello At-Grade Option would result in construction TAC emissions that would be less than the SCAQMD screening criteria, and impacts with respect to construction human health risk would be less than significant. As presented previously in **Section 7.3.3**, implementation of the Montebello At-Grade Option would result in localized criteria pollutant emissions that would be greater than those of the base alternative. However, similar TAC emission sources and construction activities would be required to complete either the alternative with the Montebello At-Grade Option or the base alternative, and the types and relative quantities of TAC emissions would also be similar. Therefore, implementation of the Montebello At-Grade Option would be expected to result in greater TAC emissions and greater human health risk impacts as compared to the base alternative. The TAC emissions associated with implementation of the Montebello At-Grade Option are accounted for in the results presented in **Table 7-12**. As shown in **Table 7-12**, construction of Alternative 3 with the Montebello At-Grade Option would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

7.5.4 Maintenance and Storage Facilities

As detailed in **Sections 7.3.1, 7.3.2, and 7.3.3**, the construction and subsequent operation of the Project would not result in TAC emissions that would exceed the applicable SCAQMD criteria. Operation and construction of an MSF is essential in maintaining a reliable light rail system and MSF TAC emissions were included in the assessment human health risk impacts.

Therefore, operation and construction of an MSF would not result in TAC emissions that would exceed the applicable SCAQMD criteria and impacts with respect to human health risk would be less than significant.

7.5.4.1 Operational Impacts

7.5.4.1.1 Commerce MSF

As described previously, operation of the Project, including operation of the Commerce MSF site option, would result in a reduction to regional TAC emissions and exposure. While the project would result in operational TAC emissions from evaporative TOG associated with vehicles parked at project parking sites, these emissions would be minimal and would be overwhelmingly offset by the regional reductions in TAC driven by project VMT reductions. Therefore, operation of the Commerce MSF site option would not result in TAC emissions that would exceed the applicable SCAQMD criteria and impacts with respect to human health risk would be less than significant.

7.5.4.1.2 Montebello MSF

As described previously, operation of the Project, including operation of the Montebello MSF site option, would result in a reduction to regional TAC emissions and exposure. While the project would result in operational TAC emissions from evaporative TOG associated with vehicles parked at project parking sites, these emissions would be minimal and would be overwhelmingly offset by the regional

reductions in TAC driven by project VMT reductions. Therefore, operation of the Montebello MSF site option would not result in TAC emissions that would exceed the applicable SCAQMD criteria and impacts with respect to human health risk would be less than significant.

Design Options

Montebello MSF At-Grade Option

As stated previously, operational TAC emissions would be driven by passenger vehicle VMT on roadways within the DSA. As with operation of the Montebello MSF site option, operation of the Montebello MSF At-Grade Option would not meaningfully change the passenger vehicle VMT reductions associated with the Project. Operation of the Montebello MSF At-Grade Option would not result in TAC emissions that would exceed the applicable SCAQMD criteria and impacts with respect to human health risk would be less than significant.

7.5.4.2 Construction Impacts

The site footprints of the Commerce MSF and Montebello MSF site options would be 24 and 30 acres respectively. Due to the presence of existing facilities at each MSF site, the Montebello MSF site option would require a longer overall construction duration because of the additional demolition and site clearing necessary at the larger site. In total throughout the construction duration, TAC emissions from construction of the Montebello MSF site option would be greater than those associated with construction of the Commerce MSF site option.

7.5.4.2.1 Commerce MSF

As described above, the construction of the Project, including the Commerce MSF site option, would result in construction TAC emissions that would be less than the SCAQMD screening criteria. The maximum construction TAC emissions associated with implementation of an MSF site option are included in the assessment of human health risk impacts under Alternative 1, Alternative 2, and Alternative 3 and as shown in tables **Table 7-10**, **Table 7-11**, and **Table 7-12** respectively, construction would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure. Impacts with respect to construction human health risk would be less than significant.

7.5.4.2.2 Montebello MSF

As described above, the construction of the Project, including the Montebello MSF site option, would result in construction TAC emissions that would be less than the SCAQMD screening criteria including construction of an MSF. The maximum construction TAC emissions associated with implementation of an MSF site option are included in the assessment of human health risk impacts under Alternative 1, Alternative 2, and Alternative 3, and as shown in tables **Table 7-10**, **Table 7-11**, and **Table 7-12** respectively, construction would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure. Impacts with respect to construction human health risk would be less than significant.

Design Options

Montebello MSF At-Grade Option

Implementation of the Project with the Montebello At-Grade Option, including the Montebello MSF At-Grade Option, would result in construction TAC emissions that would be greater than those of the base alternative with the Montebello MSF site option. Construction TAC emissions associated with implementation of the Montebello At-Grade Option are included in the assessment of human health risk impacts under Alternative 1 and Alternative 3. Construction would result in local exposure to TAC that would be less than the SCAQMD Tier 2 screening criteria for acute, chronic, and carcinogenic exposure and impacts with respect to construction human health risk would be less than significant.

8.0 MITIGATION MEASURES AND IMPACTS AFTER MITIGATION

8.1 AQ-1: Air Quality Plan

Impact AQ-1: Would a Build Alternative conflict with or obstruct implementation of the applicable air quality plan?

8.1.1 Alternative 1 Washington Boulevard

As discussed in **Section 7.1.1**, operation and construction of the base Alternative 1 or Alternative 1 with Atlantic/Pomona Station Option and/or Montebello At-Grade Option would have a less than significant impact under Impact AQ-1; therefore, no mitigation measures are required.

8.1.2 Alternative 2 Atlantic to Commerce/Citadel IOS

As discussed in **Section 7.1.2**, operation and construction of the base Alternative 2 or Alternative 2 with the Atlantic/Pomona Station Option would have a less than significant impact under Impact AQ-1; therefore, no mitigation measures are required.

8.1.3 Alternative 3 Atlantic to Greenwood IOS

As discussed in **Section 7.1.3**, operation and construction of the base Alternative 3 or Alternative 3 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option would have a less than significant impact under Impact AQ-1; therefore, no mitigation measures are required.

8.1.4 Maintenance and Storage Facilities

As discussed in **Section 7.1.4**, operation and construction of the Commerce MSF site option, the Montebello MSF site option, or the Montebello MSF At-Grade Option would have a less than significant impact under Impact AQ-1; therefore, no mitigation measures are required.

8.2 AQ-2: Criteria Pollutants

Impact AQ-2: Would a Build Alternative result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

8.2.1 Alternative 1 Washington Boulevard

As discussed in **Section 7.2.1**, operation and construction of the base Alternative 1 or Alternative 1 with Atlantic/Pomona Station Option and/or Montebello At-Grade Option would have a less than significant impact under Impact AQ-2; therefore, no mitigation measures are required.

8.2.2 Alternative 2 Atlantic to Commerce/Citadel IOS

As discussed in **Section 7.2.2**, operation and construction of the base Alternative 2 or Alternative 2 with the Atlantic/Pomona Station Option would have a less than significant impact under Impact AQ-2; therefore, no mitigation measures are required.

8.2.3 Alternative 3 Atlantic to Greenwood IOS

As discussed in **Section 7.2.3**, operation and construction of the base Alternative 3 or Alternative 3 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option would have a less than significant impact under Impact AQ-2; therefore, no mitigation measures are required.

8.2.4 Maintenance and Storage Facilities

As discussed in **Section 7.2.4**, operation and construction of the Commerce MSF site option, the Montebello MSF site option, or the Montebello MSF At-Grade Option would have a less than significant impact under Impact AQ-2; therefore, no mitigation measures are required.

8.3 AQ-3: Pollutant Concentrations

Impact AQ-3: Would a Build Alternative expose sensitive receptors to substantial pollutant concentrations?

8.3.1 Alternative 1 Washington Boulevard

As discussed in **Section 7.3.1**, operation and construction of the base Alternative 1 or Alternative 1 with Atlantic/Pomona Station Option and/or Montebello At-Grade Option would have a less than significant impact under Impact AQ-1; therefore, no mitigation measures are required.

8.3.2 Alternative 2 Atlantic to Commerce/Citadel IOS

As discussed in **Section 7.3.2**, operation and construction of the base Alternative 2 or Alternative 2 with the Atlantic/Pomona Station Option would have a less than significant impact under Impact AQ-3; therefore, no mitigation measures are required.

8.3.3 Alternative 3 Atlantic to Greenwood IOS

As discussed in **Section 7.3.3**, operation and construction of the base Alternative 3 or Alternative 3 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option would have a less than significant impact under Impact AQ-3; therefore, no mitigation measures are required.

8.3.4 Maintenance and Storage Facilities

As discussed in **Section 7.3.4**, operation and construction of the Commerce MSF site option, the Montebello MSF site option, or the Montebello MSF At-Grade Option would have a less than significant impact under Impact AQ-3; therefore, no mitigation measures are required.

8.4 AQ-4: Other Emissions

Impact AQ-4: Would a Build Alternative result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

8.4.1 Alternative 1 Washington Boulevard

As discussed in **Section 7.4.1**, operation and construction of the base Alternative 1 or Alternative 1 with Atlantic/Pomona Station Option and/or Montebello At-Grade Option would have a less than significant impact under Impact AQ-4; therefore, no mitigation measures are required.

8.4.2 Alternative 2 Atlantic to Commerce/Citadel IOS

As discussed in **Section 7.4.2**, operation and construction of the base Alternative 2 or Alternative 2 with the Atlantic/Pomona Station Option would have a less than significant impact under Impact AQ-4; therefore, no mitigation measures are required.

8.4.3 Alternative 3 Atlantic to Greenwood IOS

As discussed in **Section 7.4.3**, operation and construction of the base Alternative 3 or Alternative 3 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option would have a less than significant impact under Impact AQ-4; therefore, no mitigation measures are required.

8.4.4 Maintenance and Storage Facilities

As discussed in **Section 7.4.4**, operation and construction of the Commerce MSF site option, the Montebello MSF site option, or the Montebello MSF At-Grade Option would have a less than significant impact under Impact AQ-4; therefore, no mitigation measures are required.

8.5 HR-1: Human Health Risks

Impact HR-1: Would a Build Alternative expose sensitive receptors to TAC that would be likely to cause a substantial increase in human health risks?

8.5.1 Alternative 1 Washington Boulevard

As discussed in **Section 7.5.1**, operation and construction of the base Alternative 1 or Alternative 1 with Atlantic/Pomona Station Option and/or Montebello At-Grade Option would have a less than significant impact under Impact HR-1; therefore, no mitigation measures are required.

8.5.2 Alternative 2 Atlantic to Commerce/Citadel IOS

As discussed in **Section 7.5.2**, operation and construction of the base Alternative 2 or Alternative 2 with the Atlantic/Pomona Station Option would have a less than significant impact under Impact HR-1; therefore, no mitigation measures are required.

8.5.3 Alternative 3 Atlantic to Greenwood IOS

As discussed in **Section 7.5.3**, operation and construction of the base Alternative 3 or Alternative 3 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option would have a less than significant impact under Impact HR-1; therefore, no mitigation measures are required.

8.5.4 Maintenance and Storage Facilities

As discussed in **Section 7.5.4**, operation and construction of the Commerce MSF site option, the Montebello MSF site option, or the Montebello MSF At-Grade Option would have a less than significant impact under Impact HR-1; therefore, no mitigation measures are required.

8.6 Mitigation Measure Applicability

As described above, none of the Build Alternatives, including design options, and the MSF site option or MSF design option would have significant impacts on air quality. Therefore, no mitigation measures are required.

9.0 NO PROJECT ALTERNATIVE

9.1 No Project Alternative

9.1.1 Description

The No Project Alternative would maintain existing transit service through the year 2042. No new transportation infrastructure would be built within the DSA aside from projects currently under construction or funded for construction and operation by 2042 via the 2008 Measure R or 2016 Measure M sales taxes. This alternative would include the highway and transit projects in Metro's 2020 LRTP Update and the 2020 RTP/SCS. Under the No Project Alternative, none of the proposed Build Alternatives, design options, or MSFs would be constructed or operated.

9.1.2 Impacts

This section describes the results of the impact analysis conducted for the No Project Alternative. More detailed emission calculations and model outputs can be found in **Attachment A** through **Attachment D** of this impacts report.

9.1.2.1 AQ-1: Air Quality Plan

Impact AQ-1: Would a Build Alternative conflict with or obstruct implementation of the applicable air quality plan?

The applicable air quality plan is the SCAQMD 2016 AQMP, which was prepared in support of the SIP and approved by CARB and submitted to USEPA for its final approval on April 27, 2017. As indicated in the SCAQMD Handbook, a project is consistent with the AQMP if:

- The project does not result in an increase to the frequency or severity of an existing air quality violation;
- The project does not cause or contribute to new air quality violations;
- The project does not delay the timely attainment of the air quality standards or the interim emission reductions specified in the AQMP;
- The project is consistent with the population and employment growth projections upon which the AQMP forecasted emission levels are based;
- Project development is consistent with AQMP land use policies; and
- The Project is consistent with the applicable mitigation measures assumed in preparation of the AQMP.

The SCAQMD 2016 AQMP relied on transportation, land use, and growth assumptions included in SCAG's 2016-2040 RTP/SCS in the development of its growth and regional air quality projections. In both SCAG's current 2020-2045 RTP/SCS and the 2016-2040 RTP/SCS, the DSA was identified as a priority growth area for urban transit and the Project was identified as a major transit capital project. The Project was incorporated into regional growth projections and transportation strategies in both the 2020-2045 RTP/SCS and 2016-2040 RTP/SCS.

Under the No Project Alternative, the Metro L (Gold) Line would not be extended east from its current terminus at Atlantic Station in East Los Angeles. The No Project Alternative would not introduce new population or housing growth in the DSA or any additional employment at Metro operated facilities. However, because the Project was incorporated in the growth and transit projections in the 2020-2045 RTP/SCS and 2016-2040 RTP/SCS, selection of the No Project Alternative would not support these growth and transit projections and would be inconsistent with the applicable plan.

Therefore, Alternative 1 would conflict with or obstruct implementation of the applicable air quality plan and impacts with respect to consistency with the applicable air quality plan would be significant and unavoidable.

9.1.2.2 AQ-2: Criteria Pollutants

Impact AQ-2: Would a Build Alternative result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

Under the No Project Alternative, the Metro L (Gold) Line would not be extended east from its current terminus at Atlantic Station in East Los Angeles. No construction would be required under the No Project Alternative and regional emissions relative to the conditions in 2019 adjusted for regional growth that would occur by 2042 (i.e., the "projected future conditions baseline") would be equivalent.

Air quality impacts relative to the regional emissions of criteria air pollutants are evaluated based on thresholds of increase relative to the baseline. There would be no Project-related change in operational regional criteria air pollutant emissions under the No Project Alternative and no impacts with respect to regional criteria pollutant emissions.

9.1.2.3 AQ-3: Pollutant Concentrations

Impact AQ-3: Would a Build Alternative expose sensitive receptors to substantial pollutant concentrations?

Under the No Project Alternative, the Metro L (Gold) Line would not be extended east from its current terminus at Atlantic Station in East Los Angeles. No construction would be required under the No Project Alternative and regional emissions relative to the conditions in 2019 adjusted for regional growth that would occur by 2042 (i.e., the "projected future conditions baseline") would be equivalent.

Air quality impacts relative to the local exposure of sensitive receptors to substantial pollutant concentrations are evaluated based on various criteria. Within the Project's urban setting, the primary localized operational pollutant of concern is CO.

The highest CO concentrations are typically found close to congested roadways. These CO points of peak concentrations, known as CO hot spots, are a function of roadway congestion and hourly traffic volumes along local roadway segments, particularly at intersections. The highest-volume intersections identified in the DSA under the No Project Alternative were the intersection of Pioneer Boulevard and Washington Boulevard with 6,096 vehicles per hour, and the intersection of Norwalk Boulevard and Washington Boulevard with 6,013 vehicles per hour. In the 2017 update to the *BAAQMD CEQA Guidelines*, BAAQMD indicated that intersections with traffic volumes less than 44,000 vehicles per hour, or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadways), would not result in substantial CO concentrations. Since the highest-volume intersections identified in the Project would have traffic volumes below that of the BAAQMD screening threshold, the operation of the No Project Alternative would not expose sensitive receptors to substantial CO concentrations and impacts with respect to operational localized criteria pollutant emissions would be less than significant.

9.1.2.4 AQ-4: Other Emissions

Impact AQ-4: Would a Build Alternative result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Under the No Project Alternative, the Metro L (Gold) Line would not be extended east from its current terminus at Atlantic Station in East Los Angeles. No construction would be required under the No Project Alternative and regional emissions relative to the conditions in 2019 adjusted for regional growth that would occur by 2042 (i.e., the “projected future conditions baseline”) would be equivalent.

Air quality impacts relative to the local exposure of sensitive receptors to other emission, such as those leading to odors, are evaluated relative to the baseline. Therefore, there would be no change in other pollutant emissions under the No Project Alternative and no impacts with respect to other emissions (such as those leading to odors) with the potential to adversely affect a substantial number of people.

9.1.2.5 HR-1: Human Health Risks

Impact HR-1: Would a Build Alternative expose sensitive receptors to TAC that would be likely to cause a substantial increase in human health risks?

Under the No Project Alternative, the Metro L (Gold) Line would not be extended east from its current terminus at Atlantic Station in East Los Angeles. No construction would be required under the No Project Alternative and regional emissions relative to the conditions in 2019 adjusted for regional growth that would occur by 2042 (i.e., the “projected future conditions baseline”) would be equivalent.

Human health risk impacts are evaluated relative to the baseline. Therefore, there would be no Project-related change in human health risks under the No Project Alternative and no impacts with respect to human health risk.

10.0 SUMMARY OF ALTERNATIVES

As discussed previously, each of the Project Build Alternatives would result in a less than significant impact to air quality with respect to applicable air quality plans, criteria pollutants, pollutant concentrations, other emissions, and human health risks. See **Table 10-1**.

Table 10-1. Significant Impacts Remaining After Mitigation

Impact Topic	No Project Alternative	Alternative 1	Alternative 2	Alternative 3	MSF
Impact AQ-1: Air Quality Plan	Significant and Unavoidable	Less than Significant	Less than Significant	Less than Significant	Less than Significant
Impact AQ-2: Criteria Pollutants	No Impact	Less than Significant	Less than Significant	Less than Significant	Less than Significant
Impact AQ-3: Pollutant Concentrations	Less than Significant	Less than Significant	Less than Significant	Less than Significant	Less than Significant
Impact AQ-4: Other Emissions	No Impact	Less than Significant	Less than Significant	Less than Significant	Less than Significant
Impact HR-1: Human Health Risks	No Impact	Less than Significant	Less than Significant	Less than Significant	Less than Significant

10.1 No Project

Although CEQA typically requires significance to be evaluated in relationship to existing conditions, 2042 without Project Conditions serves as the environmental baseline in this analysis. This “projected future conditions” environmental baseline was used to provide a clear delineation of Project-related impacts. Since Impact AQ-2, AQ-4, and HR-1 are all evaluated relative to the baseline, there would be no impact under the No Project Alternative.

The Project was assumed to be implemented and was included in the regional growth and transportation projections of the 2016-2040 and 2020-2045 RTP/SCS. Thus, the No Project Alternative would have a significant and unavoidable impact with respect to consistency with applicable air quality plans.

The No Project Alternative would result in no localized construction impacts and traffic volumes that would be below regional screening thresholds for CO hot spots impacts. Therefore, the No Project Alternative would result in a less than significant impact with respect to local pollutant concentrations.

10.2 Alternative 1 Washington Boulevard + MSF

The base Alternative 1 would result in a decrease in annual VMT as compared to 2042 without Project Conditions. The total expected decrease in VMT would be 3,180,000 vehicle miles annually. VMT reduction is a key air quality strategy in SCAQMD 2016 AQMP, the primary air quality plan for the SoCAB. Therefore, impacts with respect to conflict or obstruction of the applicable air quality plan under the base Alternative 1 would be less than significant.

As discussed in **Section 7.2.1.1**, operational emissions would decrease for CO, NO_x, SO₂, PM₁₀, and PM_{2.5} under the base Alternative 1. Criteria pollutant emissions of VOC would increase as a result of the Project due to operation and maintenance activities at the MSF, but the increase would still be below the applicable SCAQMD threshold of significance. **Section 7.2.1.2** discusses construction criteria air pollutant emissions. While construction would result in the emission of criteria air pollutants, the impacts would be temporary and peak day emissions of all criteria air pollutants would be below respective SCAQMD threshold of significance. Therefore, impacts with respect to criteria air pollutant emissions under the base Alternative 1 would be less than significant.

As discussed in **Section 7.3.1.1**, BAAQMD has established traffic volume screening criteria below which significant localized CO impacts (CO hot spots) would not be expected. The peak hour intersection traffic volume projected under the base Alternative 1 is 6,070 vehicle per hour at the Intersection of Pioneer Boulevard and Washington Boulevard, which would be less than the BAAQMD screening criteria. **Section 7.3.1.2** presents localized construction concentration impacts. Consistent with SCAQMD LST guidance, peak day on-site construction emissions were compared against SCAQMD thresholds below which significant localized impacts would not be expected. Peak day on-site criteria pollutant emissions for all criteria air pollutants were estimated to be less than their respective LST threshold. Therefore, impacts with respect to localized pollutant concentrations under the base Alternative 1 would be less than significant.

No element of the Project would create a new operational source of substantial odors in the DSA, and the highly mobile nature of Project construction would limit any given receptor's exposure to near-field odors from fuels used to power construction equipment. Therefore, impacts with respect to other emissions under the base Alternative 1 would be less than significant.

As discussed in **Section 7.5.1.1**, operation of the Project would reduce impacts to human health associated with TAC emissions due to the regional reduction in VMT. **Section 7.5.1.2** presents the human health risk impacts associated with Project construction. SCAQMD has developed screening criteria for the evaluation of human health risk impacts, below which significant human health risks would not be expected. As presented, the construction contribution to maximum individual health risk would be less than significant both for short term (acute and chronic 8-hour) and long term (chronic 1-year and carcinogenic) risks. Therefore, impacts with respect to human health risks under the base Alternative 1 would be less than significant.

As discussed in **Sections 7.1.4, 7.2.4, 7.3.4, 7.4.4, and 7.5.4**, the construction and operation of the MSF is an essential component of the Project and would not be a separate project under CEQA; therefore, its impacts were not considered separately from other elements of the Project. Since air quality impacts under the base Alternative 1 would be less than significant, air quality impacts would consequently also be less than significant for the MSF site options.

Thus, the operation and construction of the base Alternative 1 and either the Commerce MSF site option or Montebello MSF site option would have a less than significant impact under Impact AQ-1 (Air Quality Plan), AQ-2 (Criteria Pollutants), AQ-3 (Pollutant Concentrations), AQ-4 (Other Emissions), and HR-1 (Human Health Risks).

10.2.1 Alternative 1 Washington Boulevard + MSF + Design Option

The operation and construction of Alternative 1 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option and either the Commerce MSF site option, Montebello MSF site option, or the Montebello MSF At-Grade Option would not result in any change to the Project's air quality impact significance determinations as compared to the base Alternative 1. Therefore, the operation and construction of Alternative 1 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option and either the Commerce MSF site option, Montebello MSF site option, or the Montebello MSF At-Grade Option would have a less than significant impact under Impact AQ-1 (Air Quality Plan), AQ-2 (Criteria Pollutants), AQ-3 (Pollutant Concentrations), AQ-4 (Other Emissions), and HR-1 (Human Health Risks).

10.3 Alternative 2 Atlantic to Commerce/Citadel IOS + MSF

The base Alternative 2 would result in a decrease in annual VMT as compared to 2042 without Project Conditions. The total expected decrease in VMT would be 1,590,000 vehicle miles annually. VMT reduction is a key air quality strategy in SCAQMD 2016 AQMP, the primary air quality plan for the SoCAB. Therefore, impacts with respect to conflict or obstruction of the applicable air quality plan under the base Alternative 2 would be less than significant.

As discussed in **Section 7.2.2.1**, operational emissions would decrease for CO, NO_x, SO₂, PM₁₀, and PM_{2.5} under the base Alternative 2. Criteria pollutant emissions of VOC would increase as a result of the Project, but the increase would still be below the applicable SCAQMD threshold of significance. **Section 7.2.2.2** discusses construction criteria air pollutant emissions. While construction would result in the emission of criteria air pollutants, the impacts would be temporary and peak day emissions of all criteria air pollutants would be below respective SCAQMD threshold of significance. Therefore, impacts with respect to criteria air pollutant emissions under the base Alternative 2 would be less than significant.

As discussed in **Section 7.3.2.1**, BAAQMD has established traffic volume screening criteria below which significant localized CO impacts (CO hot spots) would not be expected. The peak hour intersection traffic volume projected under the base Alternative 2 is 6,070 vehicle per hour at the Intersection of Pioneer Boulevard and Washington Boulevard, which would be less than the BAAQMD screening criteria. **Section 7.3.2.2** presents localized construction concentration impacts. Consistent with SCAQMD LST guidance, peak day on-site construction emissions were compared against SCAQMD thresholds below which significant localized impacts would not be expected. Peak day on-site criteria pollutant emissions for all criteria air pollutants were estimated to be less than their respective LST

threshold. Therefore, impacts with respect to localized pollutant concentrations under the base Alternative 2 would be less than significant.

No element of the Project would create a new operational source of substantial odors in the DSA, and the highly mobile nature of Project construction would limit any given receptor's exposure to near-field odors from fuels used to power construction equipment. Therefore, impacts with respect to other emissions under the base Alternative 2 would be less than significant.

As discussed in **Section 7.5.2.1**, operation of the Project would reduce impacts to human health associated with TAC emissions due to the regional reduction in VMT. **Section 7.5.2.2** presents the human health risk impacts associated with Project construction. SCAQMD has developed screening criteria for the evaluation of human health risk impacts, below which significant human health risks would not be expected. As presented, the construction contribution to maximum individual health risk would be less than significant both for short term (acute and chronic 8-hour) and long term (chronic 1-year and carcinogenic) risks. Therefore, impacts with respect to human health risks under the base Alternative 2 would be less than significant.

As discussed in **Sections 7.1.4, 7.2.4, 7.3.4, 7.4.4, and 7.5.4**, the construction and operation of the MSF is an essential component of the Project and would not be a separate project under CEQA; therefore, its impacts were not considered separately from other elements of the Project. Since air quality impacts under the base Alternative 2 would be less than significant, air quality impacts would consequently also be less than significant for the Commerce MSF site option.

Thus, the operation and construction of the base Alternative 2 and the Commerce MSF site option would have a less than significant impact under Impact AQ-1 (Air Quality Plan), AQ-2 (Criteria Pollutants), AQ-3 (Pollutant Concentrations), AQ-4 (Other Emissions), and HR-1 (Human Health Risks).

10.3.1 Alternative 2 Atlantic to Commerce/Citadel IOS + MSF + Design Option

As discussed throughout **Section 7.0**, implementation of Alternative 2 with the Atlantic/Pomona Station Option and Commerce MSF site option would not result in any change to the Project's air quality impact significance determinations as compared to the base Alternative 2. Therefore, the operation and construction of Alternative 2 with the Atlantic/Pomona Station Option and the Commerce MSF site option would have a less than significant impact under Impact AQ-1 (Air Quality Plan), AQ-2 (Criteria Pollutants), AQ-3 (Pollutant Concentrations), AQ-4 (Other Emissions), and HR-1 (Human Health Risks).

10.4 Alternative 3 Atlantic to Greenwood IOS + MSF

The base Alternative 3 would result in a decrease in annual VMT as compared to 2042 without Project Conditions. The total expected decrease in VMT would be 2,544,000 vehicle miles annually. VMT reduction is a key air quality strategy in SCAQMD 2016 AQMP, the primary air quality plan for the

SoCAB. Therefore, impacts with respect to conflict or obstruction of the applicable air quality plan under the base Alternative 3 would be less than significant.

As discussed in **Section 7.2.3.1**, operational emissions would decrease for CO, NO_x, SO₂, PM₁₀, and PM_{2.5} under the base Alternative 3. Criteria pollutant emissions of VOC would increase as a result of the Project, but the increase would still be below the applicable SCAQMD threshold of significance. **Section 7.2.3.2** discusses construction criteria air pollutant emissions. While construction would result in the emission of criteria air pollutants, the impacts would be temporary and peak day emissions of all criteria air pollutants would be below respective SCAQMD threshold of significance. Therefore, impacts with respect to criteria air pollutant emissions under the base Alternative 3 would be less than significant.

As discussed in **Section 7.3.3.1**, BAAQMD has established traffic volume screening criteria below which significant localized CO impacts (CO hot spots) would not be expected. The peak hour intersection traffic volume projected under the base Alternative 3 is 6,070 vehicle per hour at the Intersection of Pioneer Boulevard and Washington Boulevard, which would be less than the BAAQMD screening criteria. **Section 7.3.3.2** presents localized construction concentration impacts. Consistent with SCAQMD LST guidance, peak day on-site construction emissions were compared against SCAQMD thresholds below which significant localized impacts would not be expected. Peak day on-site criteria pollutant emissions for all criteria air pollutants were estimated to be less than their respective LST threshold. Therefore, impacts with respect to localized pollutant concentrations under the base Alternative 3 would be less than significant.

No element of the Project would create a new operational source of substantial odors in the DSA, and the highly mobile nature of Project construction would limit any given receptor's exposure to near-field odors from fuels used to power construction equipment. Therefore, impacts with respect to other emissions under the base Alternative 3 would be less than significant.

As discussed in **Section 7.5.3.1**, operation of the Project would reduce impacts to human health associated with TAC emissions due to the regional reduction in VMT. **Section 7.5.3.2** presents the human health risk impacts associated with Project construction. SCAQMD has developed screening criteria for the evaluation of human health risk impacts, below which significant human health risks would not be expected. As presented, the construction contribution to maximum individual health risk would be less than significant both for short term (acute and chronic 8-hour) and long term (chronic 1-year and carcinogenic) risks. Therefore, impacts with respect to human health risks under the base Alternative 3 would be less than significant.

As discussed in **Sections 7.1.4, 7.2.4, 7.3.4, 7.4.4, and 7.5.4**, the construction and operation of the MSF is an essential component of the Project and would not be a separate project under CEQA; therefore, its impacts were not considered separately from other elements of the Project. Since air quality impacts under the base Alternative 3 would be less than significant, air quality impacts would consequently also be less than significant for the MSF site options.

Thus, the operation and construction of the base Alternative 3 and either the Commerce MSF site option or Montebello MSF site option would have a less than significant impact under Impact AQ-1 (Air Quality Plan), AQ-2 (Criteria Pollutants), AQ-3 (Pollutant Concentrations), AQ-4 (Other Emissions), and HR-1 (Human Health Risks).

10.4.1 Alternative 3 Atlantic to Greenwood + MSF + Design Option

As discussed throughout **Section 7.0**, implementation of Alternative 3 with any combination of the Atlantic/Pomona Station Option, the Montebello At-Grade Option, and either MSF site option with or without the Montebello MSF At-Grade Option would not result in any change to the Project's air quality impact significance determinations as compared to the base Alternative 3. Thus, the operation and construction of Alternative 3 with the Atlantic/Pomona Station Option and/or the Montebello At-Grade Option and either the Commerce site option, Montebello MSF site option, or the Montebello MSF At-Grade Option would have a less than significant impact under Impact AQ-1 (Air Quality Plan), AQ-2 (Criteria Pollutants), AQ-3 (Pollutant Concentrations), AQ-4 (Other Emissions), and HR-1 (Human Health Risks).

11.0 PREPARERS QUALIFICATIONS

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John Pehrson	Principal Environmental Scientist/Technical Specialist Reviewer	MBA – California State University, Fullerton, 2000 BS – Chemical Engineering, University of California, Davis, 1981	40
Gwen Pelletier	Principal Environmental Scientist/Task Leader	MS – Environmental Studies, California State University, Fullerton, 2005 BS – Biochemistry, California State University, Fullerton, 2000	21

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ATTACHMENT A – CONSTRUCTION EMISSIONS CALCULATIONS

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 9.9 15.1 15.1 15.1 14.0 14.1 12.9 13.0 13.0 14.4 14.5 15.6 14.7 14.7 15.1 15.1 16.6 16.6 15.1
 Max: 21.2

Alternative 1, Washington - Daily Regional Emissions			ROG																		
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)																		
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Construction	4/22/2023	8/23/2024	1.5	1.5	1.5	1.5	1.5	1.5	1.5	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Commerce Station																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Construction	3/4/2023	7/5/2024	1.5	1.5	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--	
==== Whittier Station																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Construction	3/18/2023	7/19/2024	1.5	1.5	1.5	1.5	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	1.5	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--	

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 16.6 15.9 15.6 19.6 13.1 13.1 16.1 15.4 19.6 19.6 21.1 14.6 14.6 14.6 14.6 16.2 16.2 15.1 15.1
Max: 21.2

Alternative 1, Washington - Daily Regional Emissions			ROG Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025	
==== Construction Start																						
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial																						
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF																						
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
==== TPSS																						
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF																						
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
==== Greenwood Station																						
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.9	0.9	0.9	--	--	--	--	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
==== Greenwood Parking																						
Parking	5/17/2025	6/4/2025	--	--	--	5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello																						
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello																						
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade																						
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	1.5	1.5	1.5	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	1.1	1.1	1.1	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	1.1	1.1	1.1	1.1	1.1	1.1	1.1	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5	1.5	1.5	1.5	1.5
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.4	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	1.5	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing																						
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	1.5	1.5	1.5	1.5	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 77.2 77.2 77.2 76.5 68.9 68.2 60.5 59.8 59.8 71.7 73.0 77.9 71.5 72.0 75.0 75.0 88.2 88.2 75.0
Max: 89.4

Alternative 1, Washington - Daily Regional Emissions			NOX																		
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)																		
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Construction	4/22/2023	8/23/2024	11.8	11.8	11.8	11.8	11.8	11.8	11.8	--	--	--	--	--	--	--	--	--	--		
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
==== Commerce Station																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Commerce Station - Construction	3/4/2023	7/5/2024	11.8	11.8	11.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
==== TPSS																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	11.2	--	--	--	--	--	--	--	--	--	--	--	--	--		
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	--	--	--	--	--		
==== Whittier Station																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Whittier Station - Construction	3/18/2023	7/19/2024	11.8	11.8	11.8	11.8	11.8	--	--	--	--	--	--	--	--	--	--	--	--		
==== TPSS																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	11.2	--	--	--	--	--	--	--	--	--	--	--		
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	3.5	3.5	3.5	3.5	3.5	3.5	--	--	--	--	--		

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day):	86.2	82.0	81.0	80.2	59.9	58.8	80.6	76.4	76.6	75.4	88.6	68.8	68.8	68.8	68.8	82.0	80.0	72.3	72.3
Max:	89.4																		

Alternative 1, Washington - Daily Regional Emissions			NOX Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025	
==== Construction Start																						
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial																						
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF																						
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	--	--	--	--	--
==== TPSS																						
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF																						
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
==== Greenwood Station																						
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	7.9	7.9	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking																						
Parking	5/17/2025	6/4/2025	--	--	--	7.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello																						
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello																						
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade																						
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	13.2	13.2	13.2	13.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	5.8	5.8	5.8	5.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	--	5.8	5.8	5.8	5.8	5.8	5.8	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.2	13.2	13.2	13.2	13.2
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	3.5	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	10.7	10.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing																						
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	11.9	11.9	11.9	11.9	11.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 94.7 94.7 94.7 96.5 86.2 88.0 77.7 79.5 79.5 91.7 94.7 103.9 90.9 89.3 95.9 95.9 111.1 111.1 95.9
Max: 130.6

Alternative 1, Washington - Daily Regional Emissions			CO																		
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)																		
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	13.5	13.5	13.5	13.5	13.5	13.5	13.5	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce Station																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	13.5	13.5	13.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	--	--	--	--	--	--	--
==== Whittier Station																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	13.5	13.5	13.5	13.5	13.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	15.3	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	5.0	5.0	5.0	5.0	5.0	5.0	--	--	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 111.2 104.3 97.6 99.7 72.5 77.2 109.4 102.5 106.1 110.8 126.0 97.1 97.1 97.1 97.1 112.3 112.4 102.1 102.1
Max: 130.6

Alternative 1, Washington - Daily Regional Emissions			CO Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025	
==== Construction Start																						
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial																						
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF																						
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	--	--	--	--	--
==== TPSS																						
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF																						
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
==== Greenwood Station																						
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	9.9	9.9	9.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking																						
Parking	5/17/2025	6/4/2025	--	--	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello																						
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello																						
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade																						
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	15.2	15.2	15.2	15.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	9.6	9.6	9.6	9.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	15.2	15.2	15.2	15.2	15.2	15.2	15.2	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.2	15.2	15.2	15.2	15.2
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	5.0	5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	16.9	16.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing																						
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	12.2	12.2	12.2	12.2	12.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.2
Max: 0.3

Alternative 1, Washington - Daily Regional Emissions			SO2																		
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)																		
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce Station																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--
==== Whittier Station																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2

Max: 0.3

Alternative 1, Washington - Daily Regional Emissions			SO2 Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025	
==== Construction Start																						
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial																						
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF																						
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--
==== TPSS																						
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF																						
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
==== Greenwood Station																						
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking																						
Parking	5/17/2025	6/4/2025	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello																						
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello																						
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade																						
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing																						
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 5.9 6.0 5.9 7.1 5.6 6.7 5.2 6.4 6.4 7.4 8.7 9.8 8.6 9.6 8.8 8.8 11.1 11.1 8.8
Max: 11.7

Alternative 1, Washington - Daily Regional Emissions			PM10 Total																		
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)																		
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce Station																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.6	0.6	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--
==== Whittier Station																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 10.6 9.2 10.5 11.5 7.8 7.6 10.1 8.7 9.7 9.4 11.7 9.1 9.1 9.1 9.1 11.4 10.9 9.3 9.3
Max: 11.7

Alternative 1 - Washington - Daily Regional Emissions			PM10 Total Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== Construction Start																					
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial																					
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF																					
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	--	--	--	--
==== TPSS																					
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF																					
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
==== Greenwood Station																					
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.4	0.4	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking																					
Parking	5/17/2025	6/4/2025	--	--	--	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello																					
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello																					
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade																					
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	2.3	2.3	2.3	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	1.2	1.2	1.2	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	2.3	2.3	2.3	2.3	2.3	2.3	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.3	2.3	2.3	2.3
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	0.8	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing																					
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	1.0	1.0	1.0	1.0	1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 3.7 3.8 3.8 4.0 3.4 3.7 3.1 3.4 3.4 4.0 4.7 5.1 4.7 4.8 4.8 4.8 6.1 6.1 4.8
Max: 6.4

Alternative 1, Washington - Daily Regional Emissions			PM2.5 Total																		
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)																		
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce Station																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.5	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--
==== Whittier Station																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.5	0.5	0.5	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--

Alternative 1
Daily Regional Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Regional Emissions (lb./day): 5.6 5.1 5.7 6.0 4.1 4.0 5.3 4.9 5.2 5.1 6.4 4.7 4.7 4.7 4.7 6.0 5.5 4.9 4.9
Max: 6.4

Alternative 1, Washington - Daily Regional Emissions

Construction Activity	Start Date	End Date	PM2.5 Total Daily Emissions (lb./day)																		
			3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== Construction Start																					
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial																					
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF																					
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	--	--	--	--	--
==== TPSS																					
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF																					
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
==== Greenwood Station																					
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.3	0.3	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking																					
Parking	5/17/2025	6/4/2025	--	--	--	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello																					
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello																					
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade																					
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	1.3	1.3	1.3	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	0.5	0.5	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	1.3	1.3	1.3	1.3	1.3	1.3	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.3	1.3	1.3	1.3
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	0.6	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing																					
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	0.6	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 1.2 0.9 2.5 3.2 3.9 4.1 5.0 4.5 5.7 4.9 5.1 5.8 7.1 7.8 8.5 8.5 7.1 6.7 8.0
Max: 18.9

Alternative 1, Washington - Daily On-Site Emissions			ROG Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024
==== TPSS =====																					
Street Widening - Washington Paramount	10/23/2025	12/8/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Crossway	12/9/2025	12/12/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																					
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																					
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																					
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====																					
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====																					
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station =====																					
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																					
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																					
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 9.0 13.8 13.8 13.6 12.7 12.5 11.7 11.5 11.5 12.7 12.8 13.5 12.7 12.6 13.1 13.1 14.4 14.4 13.1
Max: 18.9

Alternative 1, Washington - Daily On-Site Emissions

Construction Activity	Start Date	End Date	ROG Daily Emissions (lb./day)																		
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station																					
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	1.4	1.4	1.4	1.4	1.4	1.4	1.4	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce Station																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	1.4	1.4	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--
==== Whittier Station																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	1.4	1.4	1.4	1.4	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 14.3 13.8 13.5 17.1 11.2 11.4 13.9 13.5 17.2 17.4 18.7 12.7 12.7 12.7 12.7 14.1 13.9 13.1 13.1
Max: 18.9

Alternative 1, Washington - Daily On-Site Emissions			ROG Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== Construction Start =====																					
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====																					
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF =====																					
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
==== TPSS =====																					
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF =====																					
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
==== Greenwood Station =====																					
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.9	0.9	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====																					
Parking	5/17/2025	6/4/2025	--	--	--	4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====																					
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====																					
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade =====																					
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	1.4	1.4	1.4	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	0.6	0.6	0.6	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	1.4	1.4	1.4	1.4	1.4	1.4	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.4	1.4	1.4	1.4
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.4	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	1.4	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing =====																					
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	1.2	1.2	1.2	1.2	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	--	--	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 75.0 75.0 75.0 73.7 66.7 65.4 58.4 57.1 57.1 68.2 68.5 71.2 65.1 64.9 68.5 68.5 79.9 79.9 68.5
Max: 82.3

Alternative 1, Washington - Daily On-Site Emissions

Construction Activity	Start Date	End Date	NOX Daily Emissions (lb./day)																		
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station																					
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	11.7	11.7	11.7	11.7	11.7	11.7	11.7	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce Station																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	11.7	11.7	11.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	--	--	--	--	--	--	--
==== Whittier Station																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	11.7	11.7	11.7	11.7	11.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	3.4	3.4	3.4	3.4	3.4	3.4	--	--	--	--	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 78.9 75.4 72.8 70.7 53.6 53.0 74.0 70.5 69.3 68.8 80.2 62.9 62.9 62.9 62.9 74.3 73.3 66.3 66.3
Max: 82.3

Alternative 1, Washington - Daily On-Site Emissions

Construction Activity	Start Date	End Date	NOX Daily Emissions (lb./day)																	
			3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025
==== Construction Start =====																				
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====																				
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF =====																				
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	--	--	--	--
==== TPSS =====																				
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF =====																				
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
==== Greenwood Station =====																				
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	7.8	7.8	7.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====																				
Parking	5/17/2025	6/4/2025	--	--	--	5.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====																				
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====																				
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade =====																				
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	11.4	11.4	11.4	11.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	4.5	4.5	4.5	4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	4.5	4.5	4.5	4.5	4.5	4.5	4.5	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	11.4	11.4	11.4	11.4	11.4	11.4	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	4.5	4.5	4.5	4.5	4.5	4.5
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.4	11.4	11.4	11.4
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	3.4	3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	10.6	10.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing =====																				
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	11.1	11.1	11.1	11.1	11.1	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	--	--	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 12.3 11.5 24.6 34.0 43.5 45.5 57.0 54.2 64.0 56.3 58.2 61.6 73.9 77.3 80.6 80.6 66.5 60.6 72.8
Max: 107.8

Alternative 1, Washington - Daily On-Site Emissions			CO Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024
Street Widening - Washington Paramount	10/23/2025	12/8/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Crossway	12/9/2025	12/12/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station																					
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking																					
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing																					
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station																					
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking																					
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station																					
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking																					
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start																					
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day):	88.9	84.5	77.9	75.6	54.7	60.6	88.5	84.2	83.6	89.5	103.1	78.8	78.8	78.8	78.8	92.4	91.1	83.4	83.4	
Max:	107.8																			

Alternative 1, Washington - Daily On-Site Emissions			CO Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== Construction Start =====																					
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====																					
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF =====																					
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	--	--	--	--
==== TPSS =====																					
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF =====																					
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
==== Greenwood Station =====																					
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	9.6	9.6	9.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====																					
Parking	5/17/2025	6/4/2025	--	--	--	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====																					
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====																					
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade =====																					
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	13.6	13.6	13.6	13.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	5.4	5.4	5.4	5.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	5.4	5.4	5.4	5.4	5.4	5.4	5.4	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	13.6	13.6	13.6	13.6	13.6	13.6	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.6	13.6	13.6	13.6	13.6
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	4.6	4.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	15.6	15.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing =====																					
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	9.7	9.7	9.7	9.7	9.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	--	--	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.1 0.1 0.2
Max: 0.2

Alternative 1, Washington - Daily On-Site Emissions			SO2 Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	
Street Widening - Washington Paramount	10/23/2025	12/8/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Crossway	12/9/2025	12/12/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station																						
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking																						
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing																						
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station																						
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking																						
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station																						
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking																						
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start																						
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.2 0.1 0.1 0.2 0.2 0.2 0.2 0.2

Max: 0.2

Alternative 1, Washington - Daily On-Site Emissions

Construction Activity	Start Date	End Date	SO2 Daily Emissions (lb./day)																			
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025	
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Atlantic Station																						
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Construction	4/22/2023	8/23/2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Sub-Grade - End																						
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Commerce Station																						
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Construction	3/4/2023	7/5/2024	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS																						
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	
==== Whittier Station																						
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS																						
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 0.2 0.2 0.2 0.2 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.1
Max: 0.2

Alternative 1, Washington - Daily On-Site Emissions			SO2 Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== Construction Start =====																					
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====																					
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF =====																					
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--
==== TPSS =====																					
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF =====																					
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
==== Greenwood Station =====																					
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====																					
Parking	5/17/2025	6/4/2025	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====																					
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====																					
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade =====																					
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing =====																					
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 5.4 4.6 5.7 5.7 3.6 3.7 5.3 4.5 4.4 4.5 6.3 4.8 4.8 4.8 4.8 6.6 5.9 5.0 5.0
Max: 6.6

Alternative 1, Washington - Daily On-Site Emissions			PM10 Total Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== Construction Start																					
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial																					
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF																					
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--
==== TPSS																					
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF																					
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
==== Greenwood Station																					
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.3	0.3	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking																					
Parking	5/17/2025	6/4/2025	--	--	--	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello																					
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello																					
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade																					
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	1.8	1.8	1.8	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	1.8	1.8	1.8	1.8	1.8	1.8	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	1.8	1.8	1.8
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing																					
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	0.5	0.5	0.5	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 0.5 0.4 1.1 1.3 1.6 1.7 2.1 1.8 2.2 1.8 1.9 2.1 2.6 2.8 3.0 3.0 3.1 2.3 2.8
Max: 4.8

Alternative 1, Washington - Daily On-Site Emissions			PM2.5 Total Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	
Street Widening - Washington Paramount	10/23/2025	12/8/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Crossway	12/9/2025	12/12/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station																						
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking																						
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing																						
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station																						
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking																						
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station																						
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking																						
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																						
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																						
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start																						
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--

Alternative 1
Daily On-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily On-Site Emissions (lb./day): 4.0 3.8 4.3 4.2 2.8 2.9 3.9 3.7 3.6 3.7 4.8 3.5 3.5 3.5 3.5 4.6 4.0 3.6 3.6
Max: 4.8

Alternative 1, Washington - Daily On-Site Emissions			PM2.5 Total Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== Construction Start =====																					
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====																					
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF =====																					
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--
==== TPSS =====																					
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF =====																					
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
==== Greenwood Station =====																					
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.3	0.3	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====																					
Parking	5/17/2025	6/4/2025	--	--	--	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====																					
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====																					
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade =====																					
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	1.1	1.1	1.1	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	1.1	1.1	1.1	1.1	1.1	1.1	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1	1.1	1.1	1.1
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing =====																					
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--	--	--

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 0.3 0.2 0.6 0.8 0.9 1.1 1.3 1.1 1.4 1.1 1.3 1.2 1.6 1.5 1.4 1.4 1.0 0.9 1.2
Max: 2.5

Alternative 1, Washington - Daily Off-Site Emissions	Construction Activity	Start Date	End Date	ROG Daily Emissions (lb./day)																		
				1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024
==== Construction Start																						
	Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Aerial																						
	Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	0.3	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--	--	--	--	--	--	
	Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	0.2592	0.3	0.3	0.3	0.3	0.3	0.3	0.3	--	--	--	
==== Commerce MSF																						
	MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
	MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS																						
	Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	
==== Montebello MSF																						
	MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.3	0.3	0.3	
	MSF - Montebello - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Greenwood Station																						
	Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.3	
	Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.3	
	Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Greenwood Parking																						
	Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Aerial - Greenwood / Montebello																						
	Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.3	0.3	
==== Guideway, At-Grade - Greenwood / Montebello																						
	Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	--	
	Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.4 0.4	
==== Street Widening																						
	Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, At-Grade																						
	Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening																						
	Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS																						
	Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Carob TPSS	12/24/2024	5/13/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening																						
	Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington Bluff	2/19/2025	4/2/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Rio Hondo Crossing																						
	Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Rio Hondo Crossing	10/28/2024	7/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening																						
	Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington Paramount	10/23/2025	12/8/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington Crossway	12/9/2025	12/12/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS																						

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 0.3 0.2 0.6 0.8 0.9 1.1 1.3 1.1 1.4 1.1 1.3 1.2 1.6 1.5 1.4 1.4 1.0 0.9 1.2
Max: 2.5

Alternative 1 - Washington - Daily Off-Site Emissions			ROG Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station																					
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking																					
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing																					
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station																					
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking																					
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station																					
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking																					
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																					
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																					
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start																					
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
==== Atlantic Station																					
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.3	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.3	0.3	0.3	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1
==== Guideway, Sub-Grade - End																					
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 1.1 1.5 1.3 1.5 1.3 1.5 1.2 1.5 1.5 1.8 1.7 2.1 2.0 2.2 2.0 2.0 2.2 2.2 2.0

Max: 2.5

Alternative 1, Washington - Daily Off-Site Emissions	Construction Activity	Start Date	End Date	ROG Daily Emissions (lb./day)																
				5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025
==== Construction Start =====																				
	Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====																				
	Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF =====																				
	MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	MSF - Commerce - Construction	5/22/2024	10/22/2025	--	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
==== TPSS =====																				
	Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF =====																				
	MSF - Montebello Site Clearing	5/13/2023	11/13/2024	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--	--	--
	MSF - Montebello - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	0.7	0.7	0.7	0.7	0.7	0.7	0.7
==== Greenwood Station =====																				
	Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
==== Greenwood Parking =====																				
	Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====																				
	Guideway, Aerial - Track	11/2/2023	11/6/2024	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====																				
	Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	0.4	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington Greenwood	5/17/2024	6/12/2024	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade =====																				
	Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--
	Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	--
	Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2
	Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.4
	Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	--	--	--	--
==== TPSS =====																				
	Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	0.3	--	--	--	--
	Carob TPSS	12/24/2024	5/13/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
==== Street Widening =====																				
	Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	0.1	--	--	--	--
	Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	--	0.1	--
	Street Widening - Washington Bluff	2/19/2025	4/2/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1
==== Rio Hondo Crossing =====																				
	Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	0.3	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--
	Rio Hondo Crossing	10/28/2024	7/11/2025	--	--	--	--	--	--	--	--	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
==== Street Widening =====																				
	Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Paramount	10/23/2025	12/8/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Crossway	12/9/2025	12/12/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 1.1 1.5 1.3 1.5 1.3 1.5 1.2 1.5 1.5 1.8 1.7 2.1 2.0 2.2 2.0 2.0 2.2 2.2 2.0
Max: 2.5

Alternative 1, Washington - Daily Off-Site Emissions			ROG Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
==== Commerce Station =====																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.1	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--
==== Whittier Station =====																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 2.3 2.1 2.1 2.5 1.9 1.7 2.2 1.9 2.4 2.2 2.4 1.9 1.9 1.9 1.9 2.1 2.2 2.0 2.0
Max: 2.5

Construction Activity	Start Date	End Date	ROG Daily Emissions (lb./day)																
			3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025
==== Construction Start =====																			
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====																			
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF =====																			
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
==== TPSS =====																			
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF =====																			
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
==== Greenwood Station =====																			
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====																			
Parking	5/17/2025	6/4/2025	--	--	--	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====																			
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====																			
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																			
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade =====																			
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	--	--	--	--	--	--	--	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																			
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																			
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																			
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing =====																			
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																			
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--
Street Widening - Washington Paramount	10/23/2025	12/8/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1
Street Widening - Washington Crossway	12/9/2025	12/12/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1
==== TPSS =====																			

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 2.3 2.0 2.5 2.4 1.7 1.6 1.5 1.4 1.4 0.9 0.9 1.1 0.9 --
Max: 2.5

Construction Activity	Start Date	End Date	ROG													
			Daily Emissions (lb./day)													
			12/13/2025	12/18/2025	12/20/2025	12/23/2025	1/24/2026	3/3/2026	4/7/2026	5/13/2026	6/11/2026	6/18/2026	7/1/2026	7/29/2026	7/31/2026	8/1/2026
==== Construction Start																
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial																
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce MSF																
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Montebello MSF																
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	--
==== Greenwood Station																
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking																
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello																
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello																
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade																
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	--	--	--	--	0.4	0.4	0.4	--	--	--	--	--	--	--
==== Street Widening																
Street Widening - Washington Carob	10/26/2024	12/20/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carob TPSS	12/24/2024	5/13/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																
Street Widening - Washington S 5th	12/24/2024	1/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S 4th	1/16/2025	2/18/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bluff	2/19/2025	4/2/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rio Hondo Crossing																
Bridge Demolition	9/12/2024	12/11/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rio Hondo Crossing	10/28/2024	7/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening																
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Paramount	10/23/2025	12/8/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Crossway	12/9/2025	12/12/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS																

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 0.8 1.8 1.6 2.9 4.3 6.9 8.7 9.3 10.0 9.3 11.9 10.7 11.5 10.3 9.1 9.1 5.7 2.6 3.3
Max: 11.9

Alternative 1 - Washington - Daily Off-Site Emissions			NOX Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024
==== TPSS =====																					
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																					
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																					
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																					
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====																					
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====																					
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station =====																					
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																					
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																					
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	--
==== Atlantic Station =====																					
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.8	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.8	0.8	0.8	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	1.4	1.4	1.4	1.4	1.4	1.4	1.4	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2
==== Guideway, Sub-Grade - End =====																					

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 7.3 6.6 8.2 9.5 6.3 5.7 6.7 6.0 7.2 6.6 8.4 5.9 5.9 5.9 5.9 7.7 6.7 6.0 6.0
Max: 11.9

Alternative 1 - Washington - Daily Off-Site Emissions			NOX Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== TPSS =====																					
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																					
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																					
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	1.4	1.4	1.4	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																					
San Gabriel Crossing	12/12/2024	8/11/2025	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1
==== Norwalk Station =====																					
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	0.8	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	0.8	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
==== Norwalk Parking =====																					
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
==== TPSS =====																					
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1
==== Lambert Station =====																					
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																					
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																					
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====																					
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====																					

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 6.8 6.1 7.5 7.1 5.5 5.2 3.5 3.4 3.4 2.0 2.0 2.7 2.0 --
Max: 11.9

Construction Activity	Start Date	End Date	NOX Daily Emissions (lb./day)												
			12/13/2025	12/18/2025	12/20/2025	12/23/2025	1/24/2026	3/3/2026	4/7/2026	5/13/2026	6/11/2026	6/18/2026	7/1/2026	7/29/2026	7/31/2026
==== TPSS =====															
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	0.8	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
==== Rosemead Station =====															
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====															
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	0.1	0.1	0.1	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	0.1	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--
==== TPSS =====															
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	0.8	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	0.1	--
==== San Gabriel Crossing =====															
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--
==== Norwalk Station =====															
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====															
Parking	12/20/2025	1/8/2026	--	--	1.4	1.4	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Norwalk TPSS	12/20/2025	2/26/2026	--	--	0.1	0.1	0.1	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	0.1	0.1	0.1	0.1	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--	--
==== Lambert Station =====															
Lambert Station - Site Clearing	9/24/2025	12/22/2025	0.8	0.8	0.8	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--
==== Lambert Parking =====															
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	1.4	1.4	--	--	--	--
==== TPSS =====															
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	0.1	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====															
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====															
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====															

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 3.0 2.1 6.0 7.1 8.3 9.8 11.9 10.1 12.6 9.9 11.5 10.9 13.9 13.4 12.9 12.9 8.8 9.0 12.0
Max: 24.1

Alternative 1 - Washington - Daily Off-Site Emissions	Construction Activity	Start Date	End Date	CO Daily Emissions (lb./day)																			
				1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	
==== TPSS =====																							
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																							
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																							
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																							
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																							
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																							
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																							
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																							
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====																							
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====																							
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																							
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																							
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																							
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station =====																							
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																							
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																							
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																							
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																							
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====																							
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	3.0	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	3.0	3.0	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6
==== Guideway, Sub-Grade - End =====																							

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 10.5 14.2 12.5 14.9 12.3 14.7 12.1 14.5 14.5 17.0 16.0 20.2 18.9 20.7 19.3 19.3 20.9 20.9 19.3
Max: 24.1

Alternative 1 - Washington - Daily Off-Site Emissions	Construction Activity	Start Date	End Date	CO Daily Emissions (lb./day)																
				5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025
==== TPSS =====																				
	Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																				
	Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Rosemead Station =====																				
	Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Rosemead Parking =====																				
	Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																				
	Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																				
	Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== San Gabriel Crossing =====																				
	San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	2.5	2.5	2.5	2.5	2.5	2.5	
==== Street Widening =====																				
	Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Norwalk Station =====																				
	Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Norwalk Parking =====																				
	Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																				
	Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																				
	Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																				
	Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Lambert Station =====																				
	Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Lambert Parking =====																				
	Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																				
	Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																				
	Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Sub-Grade - Start =====																				
	Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Atlantic Station =====																				
	Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Atlantic Station - Construction	4/22/2023	8/23/2024	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--	--	--	--	
==== Guideway, Sub-Grade - End =====																				

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day):		10.5	14.2	12.5	14.9	12.3	14.7	12.1	14.5	14.5	17.0	16.0	20.2	18.9	20.7	19.3	19.3	20.9	20.9	19.3	
Max:		24.1																			
Alternative 1, Washington - Daily Off-Site Emissions		CO Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce Station =====																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.6	0.6	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--
==== Whittier Station =====																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 21.7 19.1 23.7 22.8 16.5 15.7 14.1 13.8 13.8 9.2 9.2 10.9 8.3 --
Max: 24.1

Construction Activity	Start Date	End Date	CO Daily Emissions (lb./day)												
			12/13/2025	12/18/2025	12/20/2025	12/23/2025	1/24/2026	3/3/2026	4/7/2026	5/13/2026	6/11/2026	6/18/2026	7/1/2026	7/29/2026	7/31/2026
==== TPSS =====															
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	3.0	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	1.2	1.2	1.2	1.2	1.2	--	--	--	--	--	--	--	--
==== Rosemead Station =====															
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====															
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	1.2	1.2	1.2	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	1.2	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	1.2	1.2	--	--	--
==== TPSS =====															
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	3.0	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	0.4	--
==== San Gabriel Crossing =====															
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====															
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====															
Parking	12/20/2025	1/8/2026	--	--	4.7	4.7	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Norwalk TPSS	12/20/2025	2/26/2026	--	--	0.4	0.4	0.4	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	1.2	1.2	1.2	1.2	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	1.2	1.2	1.2
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	0.4	0.4	0.4	0.4	--	--	--	--	--	--	--	--	--
==== Lambert Station =====															
Lambert Station - Site Clearing	9/24/2025	12/22/2025	3.0	3.0	3.0	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	0.5	0.5	0.5	0.5	--	--	--	--	--	--
==== Lambert Parking =====															
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	4.7	4.7	--	--	--	--	--
==== TPSS =====															
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	0.4	0.4	0.4	0.4	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	1.2	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====															
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====															
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====															

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0
Max: 0.1

Construction Activity	Start Date	End Date	SO2 Daily Emissions (lb./day)																	
			1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024
==== TPSS =====																				
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																				
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																				
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																				
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====																				
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====																				
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station =====																				
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																				
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																				
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
==== Atlantic Station =====																				
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0
==== Guideway, Sub-Grade - End =====																				

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day):			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Max:			0.1																			
Alternative 1 - Washington - Daily Off-Site Emissions			SO2																			
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)																			
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025	
==== TPSS =====																						
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																						
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Rosemead Station =====																						
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Rosemead Parking =====																						
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																						
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																						
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== San Gabriel Crossing =====																						
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	
==== Street Widening =====																						
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Norwalk Station =====																						
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Norwalk Parking =====																						
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																						
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																						
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																						
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Lambert Station =====																						
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Lambert Parking =====																						
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																						
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																						
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Sub-Grade - Start =====																						
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Atlantic Station =====																						
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Construction	4/22/2023	8/23/2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Sub-Grade - End =====																						

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day):		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Max:		0.1																				
Alternative 1, Washington - Daily Off-Site Emissions		SO2																				
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)																			
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction																						
==== Commerce Station =====																						
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce Station - Construction	3/4/2023	7/5/2024	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																						
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	
==== Whittier Station =====																						
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																						
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 0.1
Max: 0.1

Alternative 1 - Washington - Daily Off-Site Emissions	Construction Activity	Start Date	End Date	SO2 Daily Emissions (lb./day)																
				3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025
==== TPSS =====																				
	Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																				
	Rosemead Station - Site Clearing	3/5/2025	3/14/2025	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Rosemead Station - Site Clearing	3/5/2025	3/7/2025	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																				
	Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	0.0	0.0	0.0	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
	Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																				
	San Gabriel Crossing	12/12/2024	8/11/2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	--	--	--	--	--	--
	Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
==== Norwalk Station =====																				
	Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--
	Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	0.0	--	--	--	--	--	--	--	--	--	--	--
	Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
==== Norwalk Parking =====																				
	Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
	Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--
==== TPSS =====																				
	Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--
	Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
==== Lambert Station =====																				
	Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																				
	Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
	Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																				
	Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====																				
	Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====																				

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 --
Max: 0.1

Construction Activity	Start Date	End Date	SO2 Daily Emissions (lb./day)												
			12/13/2025	12/18/2025	12/20/2025	12/23/2025	1/24/2026	3/3/2026	4/7/2026	5/13/2026	6/11/2026	6/18/2026	7/1/2026	7/29/2026	7/31/2026
==== TPSS =====															
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	0.0	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--
==== Rosemead Station =====															
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====															
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	0.0	0.0	0.0	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	0.0	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	0.0	0.0	--	--	--
==== TPSS =====															
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	0.0	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	0.0	--
==== San Gabriel Crossing =====															
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--
==== Norwalk Station =====															
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====															
Parking	12/20/2025	1/8/2026	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Norwalk TPSS	12/20/2025	2/26/2026	--	--	0.0	0.0	0.0	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	0.0	0.0	0.0	0.0	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--
==== Lambert Station =====															
Lambert Station - Site Clearing	9/24/2025	12/22/2025	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	0.0	0.0	0.0	0.0	--	--	--	--	--	--
==== Lambert Parking =====															
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	0.0	0.0	--	--	--	--	--
==== TPSS =====															
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	0.0	0.0	0.0	0.0	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	0.0	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====															
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====															
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====															

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 0.7 0.6 1.4 1.7 2.1 2.6 3.2 2.9 3.5 2.9 3.5 3.2 3.9 3.7 3.5 3.5 2.2 2.1 2.7
Max: 5.8

Alternative 1 - Washington - Daily Off-Site Emissions	Construction Activity	Start Date	End Date	PM10 Total Daily Emissions (lb./day)																
				1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023
==== TPSS =====																				
	Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																				
	Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																				
	Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
	Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																				
	San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====																				
	Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====																				
	Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
	Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening - Washington Broadway =====																				
	Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station =====																				
	Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																				
	Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
	Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
	Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																				
	Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--	--
	Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--
==== Atlantic Station =====																				
	Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.7	0.7	--	--	--	--	--	--	--	--	--	--	--
	Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.7	0.7	0.7	--	--	--	--	--	--	--	--	--	--
	Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--	--	--
==== Atlantic Station - Construction =====																				
	Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1
==== Guideway, Sub-Grade - End =====																				

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 2.4 3.2 2.8 3.4 2.8 3.3 2.7 3.3 3.3 3.9 3.8 4.7 4.4 4.9 4.5 4.5 5.0 5.0 4.5
Max: 5.8

Construction Activity	Start Date	End Date	PM10 Total Daily Emissions (lb./day)																	
			5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025
==== TPSS =====																				
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																				
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																				
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																				
San Gabriel Crossing	12/12/2024	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6
==== Street Widening =====																				
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====																				
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====																				
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station =====																				
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																				
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																				
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																				
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																				
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====																				
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====																				

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 5.2 4.6 4.8 5.8 4.2 3.9 4.8 4.3 5.2 4.9 5.4 4.3 4.3 4.3 4.3 4.8 5.0 4.4 4.4
Max: 5.8

Alternative 1 - Washington - Daily Off-Site Emissions	Construction Activity	Start Date	End Date	PM10 Total Daily Emissions (lb./day)																
				3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025
==== TPSS =====																				
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																				
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Rosemead Station =====																				
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--	
==== Rosemead Parking =====																				
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	1.1	1.1	1.1	--	--	--	--	--	--	--	
==== Street Widening =====																				
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																				
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== San Gabriel Crossing =====																				
San Gabriel Crossing	12/12/2024	8/11/2025	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--	--	--	
==== Street Widening =====																				
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	0.3	0.3	0.3	0.3	--	--	--	--	--	
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	0.3	0.3	0.3	0.3	0.3	0.3	
==== Norwalk Station =====																				
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	0.7	--	--	--	--	--	--	--	--	--	--	
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	0.7	--	--	--	--	--	--	--	--	--	--	
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
==== Norwalk Parking =====																				
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																				
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																				
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--	--	
==== TPSS =====																				
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.7	--	--	
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	
==== Lambert Station =====																				
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	0.7	0.7	0.7	0.7	0.7	0.7	
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Lambert Parking =====																				
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== TPSS =====																				
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Street Widening =====																				
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Sub-Grade - Start =====																				
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Atlantic Station =====																				
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
==== Guideway, Sub-Grade - End =====																				

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 5.0 4.4 5.5 5.3 3.9 3.7 3.2 3.1 3.1 2.0 2.0 2.5 1.9 --
Max: 5.8

Construction Activity	Start Date	End Date	PM10 Total Daily Emissions (lb./day)												
			12/13/2025	12/18/2025	12/20/2025	12/23/2025	1/24/2026	3/3/2026	4/7/2026	5/13/2026	6/11/2026	6/18/2026	7/1/2026	7/29/2026	7/31/2026
==== TPSS =====															
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--	--	--	--
==== Rosemead Station =====															
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====															
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	0.3	0.3	0.3	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	0.3	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	0.3	0.3	--	--	--
==== TPSS =====															
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	0.7	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	0.1	--
==== San Gabriel Crossing =====															
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	0.3	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--	--	--
==== Norwalk Station =====															
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====															
Parking	12/20/2025	1/8/2026	--	--	1.1	1.1	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Norwalk TPSS	12/20/2025	2/26/2026	--	--	0.1	0.1	0.1	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	0.3	0.3	0.3	0.3	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	0.3	0.3	0.3	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--	--
==== Lambert Station =====															
Lambert Station - Site Clearing	9/24/2025	12/22/2025	0.7	0.7	0.7	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--
==== Lambert Parking =====															
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	1.1	1.1	--	--	--	--
==== TPSS =====															
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	0.3	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====															
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====															
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====															

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day):			0.2	0.2	0.4	0.5	0.6	0.8	1.0	0.9	1.1	0.9	1.1	1.0	1.2	1.2	1.1	1.1	0.7	0.6	0.8	
Max:			1.7																			
Alternative 1 - Washington - Daily Off-Site Emissions			PM2.5 Total Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	
==== TPSS =====																						
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																						
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																						
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																						
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																						
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																						
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																						
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																						
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====																						
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====																						
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																						
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																						
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																						
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station =====																						
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																						
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																						
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																						
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																						
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--
==== Atlantic Station =====																						
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.2	0.2	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
==== Guideway, Sub-Grade - End =====																						

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day):			0.7	0.9	0.8	1.0	0.8	1.0	0.8	1.0	1.0	1.1	1.1	1.4	1.3	1.4	1.3	1.3	1.5	1.5	1.3
Max:			1.7																		
Alternative 1 - Washington - Daily Off-Site Emissions			PM2.5 Total																		
Construction Activity	Start Date	End Date	5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
==== TPSS =====																					
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																					
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																					
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																					
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2
==== Street Widening =====																					
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Station =====																					
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====																					
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Station =====																					
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																					
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																					
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====																					
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====																					

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

		Peak Daily Off-Site Emissions (lb./day): 0.7 0.9 0.8 1.0 0.8 1.0 0.8 1.0 1.0 1.1 1.1 1.4 1.3 1.4 1.3 1.3 1.5 1.5 1.3																			
		Max: 1.7																			
Alternative 1 - Washington - Daily Off-Site Emissions		PM2.5 Total Daily Emissions (lb./day)																			
Construction Activity	Start Date	End Date	5/17/2024	5/22/2024	6/13/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	9/12/2024	10/26/2024	10/28/2024	11/7/2024	11/14/2024	12/12/2024	12/21/2024	12/24/2024	1/16/2025	2/10/2025	2/19/2025	3/4/2025
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Commerce Station =====																					
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--
==== Whittier Station =====																					
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 1.5 1.4 1.4 1.7 1.2 1.2 1.4 1.3 1.5 1.4 1.6 1.3 1.3 1.3 1.3 1.4 1.5 1.3 1.3
Max: 1.7

Alternative 1 - Washington - Daily Off-Site Emissions			PM2.5 Total Daily Emissions (lb./day)																		
Construction Activity	Start Date	End Date	3/5/2025	3/15/2025	5/14/2025	5/17/2025	6/20/2025	7/12/2025	7/15/2025	8/1/2025	8/2/2025	8/12/2025	8/15/2025	9/24/2025	10/8/2025	10/10/2025	10/23/2025	11/18/2025	12/3/2025	12/6/2025	12/9/2025
==== TPSS =====																					
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Station =====																					
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====																					
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	0.3	0.3	0.3	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== San Gabriel Crossing =====																					
San Gabriel Crossing	12/12/2024	8/11/2025	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1
==== Norwalk Station =====																					
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	0.2	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
==== Norwalk Parking =====																					
Parking	12/20/2025	1/8/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Norwalk TPSS	12/20/2025	2/26/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
==== TPSS =====																					
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	--
Appledale TPSS	12/6/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
==== Lambert Station =====																					
Lambert Station - Site Clearing	9/24/2025	12/22/2025	--	--	--	--	--	--	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Lambert Parking =====																					
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====																					
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====																					
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====																					
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====																					
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====																					

Alternative 1
Daily Off-Site Emissions

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Peak Daily Off-Site Emissions (lb./day): 1.5 1.3 1.6 1.6 1.1 1.1 0.9 0.9 0.9 0.6 0.6 0.7 0.5 --
Max: 1.7

Construction Activity	Start Date	End Date	PM2.5 Total Daily Emissions (lb./day)												
			12/13/2025	12/18/2025	12/20/2025	12/23/2025	1/24/2026	3/3/2026	4/7/2026	5/13/2026	6/11/2026	6/18/2026	7/1/2026	7/29/2026	7/31/2026
==== TPSS =====															
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	0.2	--	--	--	--	--	--	--	--	--	--	--	--
Crossway TPSS	12/18/2025	2/25/2026	--	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
==== Rosemead Station =====															
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Rosemead Parking =====															
Parking	8/2/2025	8/22/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	--	--	--	--	--	0.1	0.1	0.1	--	--	--	--	--
Street Widening - Washington Bequette	6/11/2026	6/17/2026	--	--	--	--	--	--	--	0.1	--	--	--	--	--
Street Widening - Washington Passons	6/18/2026	7/28/2026	--	--	--	--	--	--	--	--	0.1	0.1	--	--	--
==== TPSS =====															
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	--	--	--	--	--	--	--	--	--	--	0.2	--	--
Cord TPSS	7/31/2026	10/8/2026	--	--	--	--	--	--	--	--	--	--	--	0.0	--
==== San Gabriel Crossing =====															
San Gabriel Crossing	12/12/2024	8/11/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	0.1	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--
==== Norwalk Station =====															
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--
==== Norwalk Parking =====															
Parking	12/20/2025	1/8/2026	--	--	0.3	0.3	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Norwalk TPSS	12/20/2025	2/26/2026	--	--	0.0	0.0	0.0	--	--	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Duchess	4/7/2026	6/30/2026	--	--	--	--	--	--	0.1	0.1	0.1	0.1	--	--	--
Street Widening - Washington Vanport	7/1/2026	8/13/2026	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1
Street Widening - Washington Broadway	7/15/2025	9/15/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====															
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	--	--	--	--	--	--	--	--	--	--	--	--	--
Appledale TPSS	12/6/2025	1/15/2026	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--
==== Lambert Station =====															
Lambert Station - Site Clearing	9/24/2025	12/22/2025	0.2	0.2	0.2	--	--	--	--	--	--	--	--	--	--
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	--	--	--	0.0	0.0	0.0	0.0	--	--	--	--	--	--
==== Lambert Parking =====															
Parking	5/13/2026	6/15/2026	--	--	--	--	--	--	--	0.3	0.3	--	--	--	--
==== TPSS =====															
Lambert TPSS	12/23/2025	5/12/2026	--	--	--	0.0	0.0	0.0	0.0	--	--	--	--	--	--
==== Street Widening =====															
Street Widening - Washington Lambert	12/23/2025	1/15/2026	--	--	--	0.1	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====															
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Atlantic Station =====															
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====															

Alternative 1
Construction Schedule

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Construction Activity	Start Date	End Date	denotes manually linked cell Modeled Duration (days)	Actual Duration (days)	spaces for parking Modeled Area (sqft)	see <sqft> tab Actual Area (sqft)	Notes	Based on CalEEMod defaults			CalEEMod Reference	
								Worker Trips/day	Vendor Trips/day	Hauling Trips/day		
Alternative 1, Washington												
==== Construction Start =====												
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	30	19	100,000.00	62,250	Saybrook site cleared first to allow set up for both underground and aerial guideway	40	0	11		demo_util_siteprep
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	132	132	37,000	37,000	Beginning of excavation near Saybrook to set up TBM	25	0	32		guideway_underground_t ransition
==== Guideway, Aerial =====												
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	30	127	100,000.00	422,900	Site cleared in preparation for aerial guideway	40	0	11		demo_util_siteprep
Guideway, Aerial - Track	10/27/2022	11/1/2023	132	264	79,200	158,400	Assumed to start once the Gayhart and Davie sites have been cleared, 1-mile (incl. MSF lead-in)	33	13	0		guideway_aerial
==== Commerce MSF =====												
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	30	314	100,000.00	1,045,444	n/a	40	0	11		demo_util_siteprep
MSF - Commerce - Construction	5/22/2024	10/22/2025	370	370	1,046,000	1,045,444	Assumed half the total MSF site area to be substantially developed	89	29	0		msf
==== TPSS =====												
Davie TPSS	1/28/2023	6/16/2023	100	100	12,000	12,000	n/a	5	2	0		tpss
==== Montebello MSF =====												
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	30	393	100,000.00	1,306,805	n/a	40	0	11		demo_util_siteprep
MSF - Montebello - Construction	11/14/2024	8/25/2026	370	463	1,046,000	1,306,805	Assumed half the total MSF site area to be meaningfully developed	89	29	0		msf
==== Greenwood Station =====												
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	30	4	100,000.00	12,700	STAGING OPTION 1	40	0	11		demo_util_siteprep
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	30	14	100,000.00	45,750	STAGING OPTION 2	40	0	11		demo_util_siteprep
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	260	260	8,100	8,100	n/a	4	1	0		station_aerial
==== Greenwood Parking =====												
Parking	5/17/2025	6/4/2025	13	13	370.00	370	VALUE IN SQFT COLUMN IS COUNT OF SPACES, NOT SQFT.	62	24	0		parking
==== Guideway, Aerial - Greenwood / Montebello =====												
Guideway, Aerial - Track	11/2/2023	11/6/2024	132	264	79,200	158,400	approximately 1-mile aerial crossing option	33	13	0		guideway_aerial
==== Guideway, At-Grade - Greenwood / Montebello =====												
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	77	77	264,000	264,000	approximately 1-mile at-grade crossing option; this is the extra buffer on either side of the track	18	0	32		guideway_grade_site
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	77	77	132,000	132,000	approximately 1-mile at-grade crossing option	55	22	0		guideway_grade_rail
==== Street Widening =====												
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	40	18	5,000	2,200	n/a	17	1	0		roadways
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	40	96	5,000	12,000	n/a	17	1	0		roadways
==== Guideway, At-Grade =====												
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	77	77	264,000	264,000	extra area over track due to trackside buffer	18	0	32		guideway_grade_site
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	77	77	132,000	132,000	n/a	55	22	0		guideway_grade_rail
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	77	77	264,000	264,000	extra area over track due to trackside buffer	18	0	32		guideway_grade_site
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	77	77	132,000	132,000	n/a	55	22	0		guideway_grade_rail
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	77	77	264,000	264,000	extra area over track due to trackside buffer	18	0	32		guideway_grade_site
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	77	77	132,000	132,000	n/a	55	22	0		guideway_grade_rail
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	77	77	264,000	264,000	extra area over track due to trackside buffer	18	0	32		guideway_grade_site
Guideway, At-Grade - Track, 1 mile	10/8/2025	1/23/2026	77	77	132,000	132,000	n/a	55	22	0		guideway_grade_rail
Guideway, At-Grade - Construction, 1 mile	11/18/2025	3/5/2026	77	77	264,000	264,000	extra area over track due to trackside buffer	18	0	32		guideway_grade_site
Guideway, At-Grade - Track, 1 mile	1/24/2026	5/12/2026	77	77	132,000	132,000	n/a	55	22	0		guideway_grade_rail
==== Street Widening =====												
Street Widening - Washington Carob	10/26/2024	12/20/2024	40	40	5,000	5,000	n/a	17	1	0		roadways

Start Date End Date
total construction 1/1/2022 10/8/2026 57 months
operationally essential construction 1/1/2022 10/8/2026 57 months

(excl. MSF, Parking, Street Widening)

Base Alternative Feature
Design Option

Note: Additional delays during the aerial, at-grade, and bridge-construction construction activities associated with road closures and the mobilization of construction equipment in an urban setting would result in longer, lower-intensity construction than presented. Emissions are estimated assuming no delays to capture the highest intensity (maximum daily emissions) which could reasonably result from the Project. Construction would not be expected to exceed 72 months including anticipated delays.

Alternative 1
Construction Schedule

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

	Start Date	End Date	57 months		Base Alternative Feature
total construction	1/1/2022	10/8/2026	57 months		
operationally essential construction	1/1/2022	10/8/2026	57 months	(excl. MSF, Parking, Street Widening)	Design Option

Note: Additional delays during the aerial, at-grade, and bridge-construction construction activities associated with road closures and the mobilization of construction equipment in an urban setting would result in longer, lower-intensity construction than presented. Emissions are estimated assuming no delays to capture the highest intensity (maximum daily emissions) which could reasonably result from the Project. Construction would not be expected to exceed 72 months including anticipated delays.

Alternative 1, Washington

Construction Activity	Start Date	End Date	denotes manually linked cell Modeled Duration (days)	Actual Duration (days)	spaces for parking Modeled Area (sqft)	see <sqft> tab Actual Area (sqft)	Notes	Based on CalEEMod defaults			CalEEMod Reference	
								Worker Trips/day	Vendor Trips/day	Hauling Trips/day		
==== TPSS =====												
Carob TPSS - Site Clearing	12/21/2024	12/23/2024	30	1	100,000.00	1,000	n/a	40	0	11	demo_util_siteprep	
Carob TPSS	12/24/2024	5/13/2025	100	100	12,000	12,000	n/a	5	2	0	tpss	
==== Street Widening =====												
Street Widening - Washington S 5th	12/24/2024	1/15/2025	40	16	5,000	2,000	n/a	17	1	0	roadways	
Street Widening - Washington S 4th	1/16/2025	2/18/2025	40	23	5,000	2,800	n/a	17	1	0	roadways	
Street Widening - Washington Bluff	2/19/2025	4/2/2025	40	30	5,000	3,700	n/a	17	1	0	roadways	
==== Rio Hondo Crossing =====												
Bridge Demolition	9/12/2024	12/11/2024	30	64	100,000.00	213,000	square footage includes demo at San Gabriel River as well	40	0	11	demo_util_siteprep	
Rio Hondo Crossing	10/28/2024	7/11/2025	132	184	79,200	110,000	n/a	33	13	0	guideway_aerial	
==== Street Widening =====												
Street Widening - Washington After Rio Hondo Bridge	7/12/2025	10/22/2025	40	73	5,000	9,100	n/a	17	1	0	roadways	
Street Widening - Washington Paramount	10/23/2025	12/8/2025	40	32	5,000	4,000	n/a	17	1	0	roadways	
Street Widening - Washington Crossway	12/9/2025	12/12/2025	40	3	5,000	350	n/a	17	1	0	roadways	
==== TPSS =====												
Crossway TPSS - Site Clearing	12/13/2025	12/17/2025	30	3	100,000.00	8,000	n/a	40	0	11	demo_util_siteprep	
Crossway TPSS	12/18/2025	2/25/2026	100	49	12,000	5,800	n/a	5	2	0	tpss	
==== Street Widening =====												
Street Widening - Washington After Crossway TPSS	12/13/2025	3/2/2026	40	56	5,000	7,000	n/a	17	1	0	roadways	
==== Rosemead Station =====												
Rosemead Station - Site Clearing	3/5/2025	3/14/2025	30	7	100,000.00	22,500	STAGING OPTION 1	40	0	11	demo_util_siteprep	
Rosemead Station - Site Clearing	3/5/2025	3/7/2025	30	2	100,000.00	5,600	STAGING OPTION 2	40	0	11	demo_util_siteprep	
Rosemead Station - Station Construction (At-Grade)	3/15/2025	8/1/2025	100	100	8,100	8,100	n/a	6	2	0	station_grade	
==== Rosemead Parking =====												
Parking	8/2/2025	8/22/2025	13	15	370.00	410	VALUE IN SQFT COLUMN IS COUNT OF SPACES, NOT SQFT.	62	24	0	parking	
==== Street Widening =====												
Street Widening - Washington Rosemead	3/3/2026	6/10/2026	40	71	5,000	8,850	n/a	17	1	0	roadways	
Street Widening - Washington Bequette	6/11/2026	6/17/2026	40	4	5,000	400	n/a	17	1	0	roadways	
Street Widening - Washington Passons	6/18/2026	7/28/2026	40	28	5,000	3,450	n/a	17	1	0	roadways	
==== TPSS =====												
Cord TPSS - Site Clearing	7/29/2026	7/30/2026	30	1	100,000.00	2,600	n/a	40	0	11	demo_util_siteprep	
Cord TPSS	7/31/2026	10/8/2026	100	49	12,000	5,800	n/a	5	2	0	tpss	
==== San Gabriel Crossing =====												
San Gabriel Crossing	12/12/2024	8/11/2025	132	172	79,200	103,000	n/a	33	13	0	guideway_aerial	
==== Street Widening =====												
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	40	42	5,000	5,150	n/a	17	1	0	roadways	
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	40	126	5,000	15,750	n/a	17	1	0	roadways	
==== Norwalk Station =====												
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	30	12	100,000.00	37,250	STAGING OPTION 1	40	0	11	demo_util_siteprep	
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	30	9	100,000.00	28,750	STAGING OPTION 2	40	0	11	demo_util_siteprep	
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	100	100	8,100	8,100	n/a	6	2	0	station_grade	
==== Norwalk Parking =====												
Parking	12/20/2025	1/8/2026	13	14	370.00	390	VALUE IN SQFT COLUMN IS COUNT OF SPACES, NOT SQFT.	62	24	0	parking	
==== TPSS =====												

Alternative 1
Construction Schedule

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

Start Date End Date
total construction 1/1/2022 10/8/2026 57 months
operationally essential construction 1/1/2022 10/8/2026 57 months (excl. MSF, Parking, Street Widening)

Base Alternative Feature
Design Option

Note: Additional delays during the aerial, at-grade, and bridge-construction construction activities associated with road closures and the mobilization of construction equipment in an urban setting would result in longer, lower-intensity construction than presented. Emissions are estimated assuming no delays to capture the highest intensity (maximum daily emissions) which could reasonably result from the Project. Construction would not be expected to exceed 72 months including anticipated delays.

Alternative 1, Washington

Construction Activity	Start Date	End Date	denotes manually linked cell		spaces for parking		see <sqft> tab	Notes	Based on CalEEMod defaults			CalEEMod Reference
			Modeled Duration (days)	Actual Duration (days)	Modeled Area (sqft)	Actual Area (sqft)			Worker Trips/day	Vendor Trips/day	Hauling Trips/day	
Norwalk TPSS	12/20/2025	2/26/2026	100	49	12,000	5,800	n/a		5	2	0	tpss
==== Street Widening =====												
Street Widening - Washington Duchess	4/7/2026	6/30/2026	40	60	5,000	7,400	n/a		17	1	0	roadways
Street Widening - Washington Vanport	7/1/2026	8/13/2026	40	31	5,000	3,800	n/a		17	1	0	roadways
Street Widening - Washington Broadway	7/15/2025	9/15/2025	40	44	5,000	5,500	n/a		17	1	0	roadways
==== TPSS =====												
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	30	2	100,000.00	3,600	n/a		40	0	11	demo_util_siteprep
Appledale TPSS	12/6/2025	1/15/2026	100	29	12,000	3,400	n/a		5	2	0	tpss
==== Lambert Station =====												
Lambert Station - Site Clearing	9/24/2025	12/22/2025	30	63	100,000.00	208,500	Finish when alignment finishes		40	0	11	demo_util_siteprep
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	100	100	8,100	8,100	Finish when alignment finishes		6	2	0	station_grade
==== Lambert Parking =====												
Parking	5/13/2026	6/15/2026	13	23	370.00	650	VALUE IN SQFT COLUMN IS COUNT OF SPACES, NOT SQFT.		62	24	0	parking
==== TPSS =====												
Lambert TPSS	12/23/2025	5/12/2026	100	100	12,000	12,000	n/a		5	2	0	tpss
==== Street Widening =====												
Street Widening - Washington Lambert	12/23/2025	1/15/2026	40	17	5,000	2,100	n/a		17	1	0	roadways
==== Guideway, Sub-Grade - Start =====												
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	23	276	14,000	168,000	modeled as one month (approximately 1/4 mile of boring); 3 miles total		16	4	45	guideway_underground
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	23	276	14,000	168,000	start of second boring machine		16	4	45	guideway_underground
==== Atlantic Station =====												
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	30	21	100,000.00	68,840	STAGING OPTION 1		40	0	11	demo_util_siteprep
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	30	25	100,000.00	80,850	STAGING OPTION 2		40	0	11	demo_util_siteprep
Atlantic Station - Excavation	10/22/2022	4/21/2023	130	130	13,500	13,500	NOTE: Staging must be complete before Sub-Grade - End so that staging can support that effort as well; Station must be after TBM is done.		13	0	25	station_underground_cut cover
Atlantic Station - Construction	4/22/2023	8/23/2024	350	350	8,100	8,100	per ACE team recommendation, maximum duration used in modeling		8	3	0	station_underground
==== Guideway, Sub-Grade - End =====												
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	132	243	37,000	68,000	Beginning of excavation near Atlantic Station to relieve TBM; Assumed complete at least one month before first TBM arrives.		25	0	32	guideway_underground_t ransition
==== Commerce Station =====												
Commerce Station - Site Clearing	8/3/2022	8/31/2022	30	20	100,000.00	64,500	STAGING OPTION 1		40	0	11	demo_util_siteprep
Commerce Station - Site Clearing	8/3/2022	9/2/2022	30	22	100,000.00	70,250	STAGING OPTION 2		40	0	11	demo_util_siteprep
Commerce Station - Excavation	9/3/2022	3/3/2023	130	130	13,500	13,500			13	0	25	station_underground_cut cover
Commerce Station - Construction	3/4/2023	7/5/2024	350	350	8,100	8,100	per ACE team recommendation, maximum duration used in modeling		8	3	0	station_underground
==== TPSS =====												
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	30	2	100,000.00	3,600	n/a		40	0	11	demo_util_siteprep
Commerce TPSS	7/10/2024	11/27/2024	100	100	12,000	12,000	n/a		5	2	0	tpss
==== Whittier Station =====												
Whittier Station - Site Clearing	9/3/2022	9/16/2022	30	10	100,000.00	30,750	STAGING OPTION 1		40	0	11	demo_util_siteprep
Whittier Station - Site Clearing	9/3/2022	9/14/2022	30	8	100,000.00	25,500	STAGING OPTION 2		40	0	11	demo_util_siteprep
Whittier Station - Excavation	9/17/2022	3/17/2023	130	130	13,500	13,500			13	0	25	station_underground_cut cover
Whittier Station - Construction	3/18/2023	7/19/2024	350	350	8,100	8,100	per ACE team recommendation, maximum duration used in modeling		8	3	0	station_underground
==== TPSS =====												
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	30	2	100,000.00	3,600	n/a		40	0	11	demo_util_siteprep
Whittier TPSS	7/24/2024	12/11/2024	100	100	12,000	12,000	n/a		5	2	0	tpss

Peak Daily Regional Emissions (lb./day): 9.3 9.9 11.2 11.2 10.1 10.2 9.0 --
Max: 11.2

Alternative 2. Atlantic to Citadel IOS - Daily Regional Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
=== Construction Start ===										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
=== Guideway, Aerial ===										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	1.5	1.5	--	--	--	--	--	--
=== Commerce MSF ===										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	1.5	1.5	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	6.7	6.7	6.7	6.7	6.7	--
=== TPSS ===										
Davie TPSS	1/28/2023	6/16/2023	0.4	0.4	--	--	--	--	--	--
=== Guideway, Sub-Grade - Start ===										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.4	0.4	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.4	0.4	--	--	--	--	--	--
=== Atlantic Station ===										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.8	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	1.5	1.5	1.5	1.5	1.5	1.5	--
=== Guideway, Sub-Grade - End ===										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	1.1	1.1	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	1.5	1.5	1.5	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	1.5	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.4	0.4	0.4	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	1.5	1.5	1.5	1.5	1.5	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	1.5	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.4	--

Peak Daily Regional Emissions (lb./day): 78.3 81.8 45.8 45.1 37.4 36.8 29.1 --
Max: 81.8

Alternative 2. Atlantic to Citadel IOS -
Daily Regional Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
=== Construction Start ===										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
=== Guideway, Aerial ===										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	11.9	11.9	--	--	--	--	--	--
=== Commerce MSF ===										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	11.2	11.2	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	10.3	10.3	10.3	10.3	10.3	--
=== TPSS ===										
Davie TPSS	1/28/2023	6/16/2023	3.5	3.5	--	--	--	--	--	--
=== Guideway, Sub-Grade - Start ===										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	4.6	4.6	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	4.6	4.6	--	--	--	--	--	--
=== Atlantic Station ===										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	8.4	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	11.8	11.8	11.8	11.8	11.8	11.8	--
=== Guideway, Sub-Grade - End ===										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	10.5	10.5	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	11.8	11.8	11.8	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	11.2	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	3.5	3.5	3.5	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	11.8	11.8	11.8	11.8	11.8	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	11.2	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	3.5	--

Peak Daily Regional Emissions (lb./day): 90.7 93.5 55.3 57.1 46.8 48.6 38.3 --
Max: 93.5

Alternative 2. Atlantic to Citadel IOS -
Daily Regional Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	12.2	12.2	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	15.3	15.3	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	14.9	14.9	14.9	14.9	14.9	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	5.0	5.0	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	3.5	3.5	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	3.5	3.5	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	10.6	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	13.5	13.5	13.5	13.5	13.5	13.5	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	13.6	13.6	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	13.5	13.5	13.5	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	15.3	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	5.0	5.0	5.0	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	13.5	13.5	13.5	13.5	13.5	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	15.3	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	5.0	--

Peak Daily Regional Emissions (lb./day): 0.2 0.2 0.1 0.1 0.1 0.1 0.1 --
Max: 0.2

**Alternative 2. Atlantic to Citadel IOS -
Daily Regional Emissions**

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.0	0.0	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.0	0.0	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	0.0	0.0	0.0	0.0	0.0	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.0	0.0	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.0	0.0	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.0	0.0	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.0	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.0	0.0	0.0	0.0	0.0	0.0	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.0	0.0	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.0	0.0	0.0	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.0	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	0.0	0.0	0.0	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.0	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	--

Peak Daily Regional Emissions (lb./day): 7.2 7.2 3.7 4.9 3.4 4.5 3.0 --
Max: 7.3

Alternative 2. Atlantic to Citadel IOS -
Daily Regional Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	1.0	1.0	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	1.8	1.8	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	1.9	1.9	1.9	1.9	1.9	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.2	0.2	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.6	0.6	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.6	0.6	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.7	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.6	0.6	0.6	0.6	0.6	0.6	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	1.0	1.0	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.6	0.6	0.6	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	1.8	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.2	0.2	0.2	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.6	0.6	0.6	0.6	0.6	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	1.8	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.2	--

Peak Daily Regional Emissions (lb./day): 4.0 4.1 2.3 2.5 2.0 2.2 1.6 --
Max: 4.1

Alternative 2. Atlantic to Citadel IOS -
Daily Regional Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.6	0.6	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.7	0.7	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	0.8	0.8	0.8	0.8	0.8	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.2	0.2	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.3	0.3	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.3	0.3	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.4	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.5	0.5	0.5	0.5	0.5	0.5	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.6	0.6	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.5	0.5	0.5	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.7	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.2	0.2	0.2	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.5	0.5	0.5	0.5	0.5	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.7	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.2	--

Peak Daily On-Site Emissions (lb./day): 7.8 8.5 10.3 10.1 9.3 9.1 8.2 --
Max: 10.3

Alternative 2. Atlantic to Citadel IOS - Daily On-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
=== Construction Start ===										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
=== Guideway, Aerial ===										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	1.2	1.2	--	--	--	--	--	--
=== Commerce MSF ===										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	1.2	1.2	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	6.0	6.0	6.0	6.0	6.0	--
=== TPSS ===										
Davie TPSS	1/28/2023	6/16/2023	0.4	0.4	--	--	--	--	--	--
=== Guideway, Sub-Grade - Start ===										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.2	0.2	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.2	0.2	--	--	--	--	--	--
=== Atlantic Station ===										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.7	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	1.4	1.4	1.4	1.4	1.4	1.4	--
=== Guideway, Sub-Grade - End ===										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.9	0.9	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	1.4	1.4	1.4	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	1.2	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.4	0.4	0.4	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	1.4	1.4	1.4	1.4	1.4	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	1.2	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.4	--

Peak Daily On-Site Emissions (lb./day): 68.0 72.7 43.5 42.3 35.2 34.0 27.0 --
Max: 72.7

Alternative 2. Atlantic to Citadel IOS -
Daily On-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
=== Construction Start ===										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
=== Guideway, Aerial ===										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	11.1	11.1	--	--	--	--	--	--
=== Commerce MSF ===										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	10.4	10.4	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	8.5	8.5	8.5	8.5	8.5	--
=== TPSS ===										
Davie TPSS	1/28/2023	6/16/2023	3.4	3.4	--	--	--	--	--	--
=== Guideway, Sub-Grade - Start ===										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	2.0	2.0	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	2.0	2.0	--	--	--	--	--	--
=== Atlantic Station ===										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	7.0	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	11.7	11.7	11.7	11.7	11.7	11.7	--
=== Guideway, Sub-Grade - End ===										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	8.7	8.7	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	11.7	11.7	11.7	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	10.4	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	3.4	3.4	3.4	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	11.7	11.7	11.7	11.7	11.7	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	10.4	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	3.4	--

Peak Daily On-Site Emissions (lb./day): 77.3 80.6 46.8 46.2 38.5 38.0 30.3 --
Max: 80.6

Alternative 2. Atlantic to Citadel IOS -
Daily On-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	9.7	9.7	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	12.3	12.3	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	8.3	8.3	8.3	8.3	8.3	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	4.6	4.6	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	2.0	2.0	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	2.0	2.0	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	9.5	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	12.9	12.9	12.9	12.9	12.9	12.9	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	11.5	11.5	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	12.9	12.9	12.9	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	12.3	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	4.6	4.6	4.6	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	12.9	12.9	12.9	12.9	12.9	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	12.3	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	4.6	--

Peak Daily On-Site Emissions (lb./day): 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 --
Max: 0.2

**Alternative 2. Atlantic to Citadel IOS -
Daily On-Site Emissions**

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.0	0.0	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.0	0.0	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	0.0	0.0	0.0	0.0	0.0	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.0	0.0	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.0	0.0	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.0	0.0	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.0	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.0	0.0	0.0	0.0	0.0	0.0	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.0	0.0	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.0	0.0	0.0	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.0	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	0.0	0.0	0.0	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.0	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	--

Peak Daily On-Site Emissions (lb./day): 3.5 3.7 1.8 2.4 1.5 2.1 1.2 --
Max: 3.7

Alternative 2. Atlantic to Citadel IOS -
Daily On-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.5	0.5	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	1.1	1.1	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	0.4	0.4	0.4	0.4	0.4	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.2	0.2	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.1	0.1	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.1	0.1	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.3	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.5	0.5	0.5	0.5	0.5	0.5	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.4	0.4	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.5	0.5	0.5	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	1.1	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.2	0.2	0.2	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.5	0.5	0.5	0.5	0.5	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	1.1	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.2	--

Peak Daily On-Site Emissions (lb./day): 2.8 3.0 1.7 1.8 1.4 1.5 1.1 --
Max: 3.0

Alternative 2. Atlantic to Citadel IOS -
Daily On-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.4	0.4	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.5	0.5	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	0.4	0.4	0.4	0.4	0.4	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.1	0.1	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.1	0.1	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.1	0.1	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.3	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.4	0.4	0.4	0.4	0.4	0.4	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.4	0.4	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.4	0.4	0.4	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.5	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.1	0.1	0.1	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.4	0.4	0.4	0.4	0.4	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.5	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.1	--

Peak Daily Off-Site Emissions (lb./day): 1.5 1.4 0.9 1.1 0.9 1.1 0.8 --
Max: 1.6

Alternative 2. Atlantic to Citadel IOS - Daily Off-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.3	0.3	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.3	0.3	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	0.7	0.7	0.7	0.7	0.7	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.0	0.0	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.2	0.2	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.2	0.2	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.1	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.1	0.1	0.1	0.1	0.1	0.1	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.2	0.2	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.1	0.1	0.1	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.3	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.1	0.1	0.1	0.1	0.1	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.3	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	--

Peak Daily Off-Site Emissions (lb./day): 10.3 9.1 2.3 2.9 2.2 2.8 2.1 --
Max: 11.9

Alternative 2. Atlantic to Citadel IOS -
Daily Off-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.7	0.7	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.8	0.8	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	1.7	1.7	1.7	1.7	1.7	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.1	0.1	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	2.6	2.6	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	2.6	2.6	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	1.4	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.2	0.2	0.2	0.2	0.2	0.2	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	1.8	1.8	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.2	0.2	0.2	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.8	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.1	0.1	0.1	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.2	0.2	0.2	0.2	0.2	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.8	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.1	--

Peak Daily Off-Site Emissions (lb./day): 13.4 12.9 8.5 10.9 8.3 10.7 8.0 --
Max: 13.9

Alternative 2. Atlantic to Citadel IOS -
Daily Off-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	2.5	2.5	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	3.0	3.0	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	6.7	6.7	6.7	6.7	6.7	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.4	0.4	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	1.5	1.5	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	1.5	1.5	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	1.1	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.6	0.6	0.6	0.6	0.6	0.6	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	2.1	2.1	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.6	0.6	0.6	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	3.0	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.4	0.4	0.4	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.6	0.6	0.6	0.6	0.6	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	3.0	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.4	--

Peak Daily Off-Site Emissions (lb./day): 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 --
Max: 0.1

Alternative 2. Atlantic to Citadel IOS -
Daily Off-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.0	0.0	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.0	0.0	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	0.0	0.0	0.0	0.0	0.0	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.0	0.0	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.0	0.0	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.0	0.0	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.0	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.0	0.0	0.0	0.0	0.0	0.0	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.0	0.0	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.0	0.0	0.0	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.0	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	0.0	0.0	0.0	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.0	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	--

Peak Daily Off-Site Emissions (lb./day): 3.7 3.5 1.9 2.5 1.9 2.4 1.8 --
Max: 3.9

Alternative 2. Atlantic to Citadel IOS -
Daily Off-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.6	0.6	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.7	0.7	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	1.5	1.5	1.5	1.5	1.5	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.1	0.1	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.6	0.6	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.6	0.6	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.4	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.1	0.1	0.1	0.1	0.1	0.1	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.6	0.6	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.1	0.1	0.1	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.7	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.1	0.1	0.1	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.1	0.1	0.1	0.1	0.1	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.7	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.1	--

Peak Daily Off-Site Emissions (lb./day): 1.2 1.1 0.6 0.7 0.5 0.7 0.5 --
Max: 1.2

Alternative 2. Atlantic to Citadel IOS -
Daily Off-Site Emissions

Construction Activity	Start Date	End Date	3/18/2023	4/22/2023	5/22/2024	7/6/2024	7/10/2024	7/20/2024	7/24/2024	7/25/2024
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.2	0.2	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	0.2	0.2	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	0.4	0.4	0.4	0.4	0.4	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	0.0	0.0	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.2	0.2	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.2	0.2	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.1	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	0.0	0.0	0.0	0.0	0.0	0.0	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	0.2	0.2	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	0.0	0.0	0.0	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	--	--	--	0.2	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	--	--	--	0.0	0.0	0.0	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	0.0	0.0	0.0	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	--	--	--	0.2	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	--	--	--	0.0	--

Alternative 2
Construction Schedule

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

	Start Date	End Date							Base Alternative Feature
total construction	1/1/2022	10/22/2025	46 months						
operationally essential construction	1/1/2022	12/11/2024	35 months	(excl. MSF, Parking, Street Widening)					Design Variation

Alternative 2. Atlantic to Citadel IOS

Construction Activity	Start Date	End Date	<i>denotes manually linked cell</i>		<i>spaces for parking</i>		<i>see <sqft> tab</i>	Notes	<i>Based on CalEEMod defaults</i>			CalEEMod Reference
			Modeled Duration (days)	Actual Duration (days)	Modeled Area (sqft)	Actual Area (sqft)	Worker Trips/day		Vendor Trips/day	Hauling Trips/day		
==== Construction Start =====												
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	30	19	100,000.00	62,250		Saybrook site cleared first to allow set up for both underground and aerial guideway	40	0	11	demo_util_siteprep
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	132	132	37,000	37,000		Beginning of excavation near Saybrook to set up TBM	25	0	32	guideway_underground_transition
==== Guideway, Aerial =====												
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	30	127	100,000.00	422,900		Site cleared in preparation for aerial guideway	40	0	11	demo_util_siteprep
Guideway, Aerial - Track	10/27/2022	11/1/2023	132	264	79,200	158,400		Assumed to start once the Gayhart and Davie sites have been cleared, 1-mile (incl. MSF lead-in)	33	13	0	guideway_aerial
==== Commerce MSF =====												
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	30	314	100,000.00	1,045,444		n/a	40	0	11	demo_util_siteprep
MSF - Commerce - Construction	5/22/2024	10/22/2025	370	370	1,046,000	1,045,444		Assumed half the total MSF site area to be substantially developed	89	29	0	msf
==== TPSS =====												
Davie TPSS	1/28/2023	6/16/2023	100	100	12,000	12,000		n/a	5	2	0	tpss
==== Guideway, Sub-Grade - Start =====												
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	23	276	14,000	168,000		modeled as one month (approximately 1/4 mile of boring); 3 miles total	16	4	45	guideway_underground
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	23	276	14,000	168,000		start of second boring machine	16	4	45	guideway_underground
==== Atlantic Station =====												
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	30	21	100,000.00	68,840		STAGING OPTION 1	40	0	11	demo_util_siteprep
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	30	25	100,000.00	80,850		STAGING OPTION 2	40	0	11	demo_util_siteprep
Atlantic Station - Excavation	10/22/2022	4/21/2023	130	130	13,500	13,500		NOTE: Staging must be complete before Sub-Grade - End so that staging can support that effort as well; Station must be after TBM is done.	13	0	25	station_underground_cutcover
Atlantic Station - Construction	4/22/2023	8/23/2024	350	350	8,100	8,100		per ACE team recommendation, maximum duration used in modeling	8	3	0	station_underground
==== Guideway, Sub-Grade - End =====												
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	132	243	37,000	68,000		Beginning of excavation near Atlantic Station to receive TBM; Assumed complete at least one month before first TBM arrives.	25	0	32	guideway_underground_transition
==== Commerce Station =====												
Commerce Station - Site Clearing	8/3/2022	8/31/2022	30	20	100,000.00	64,500		STAGING OPTION 1	40	0	11	demo_util_siteprep
Commerce Station - Site Clearing	8/3/2022	9/2/2022	30	22	100,000.00	70,250		STAGING OPTION 2	40	0	11	demo_util_siteprep
Commerce Station - Excavation	9/3/2022	3/3/2023	130	130	13,500	13,500			13	0	25	station_underground_cutcover
Commerce Station - Construction	3/4/2023	7/5/2024	350	350	8,100	8,100		per ACE team recommendation, maximum duration used in modeling	8	3	0	station_underground
==== TPSS =====												
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	30	2	100,000.00	3,600		n/a	40	0	11	demo_util_siteprep
Commerce TPSS	7/10/2024	11/27/2024	100	100	12,000	12,000		n/a	5	2	0	tpss
==== Whittier Station =====												
Whittier Station - Site Clearing	9/3/2022	9/16/2022	30	10	100,000.00	30,750		STAGING OPTION 1	40	0	11	demo_util_siteprep
Whittier Station - Site Clearing	9/3/2022	9/14/2022	30	8	100,000.00	25,500		STAGING OPTION 2	40	0	11	demo_util_siteprep
Whittier Station - Excavation	9/17/2022	3/17/2023	130	130	13,500	13,500			13	0	25	station_underground_cutcover
Whittier Station - Construction	3/18/2023	7/19/2024	350	350	8,100	8,100		per ACE team recommendation, maximum duration used in modeling	8	3	0	station_underground
==== TPSS =====												
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	30	2	100,000.00	3,600		n/a	40	0	11	demo_util_siteprep
Whittier TPSS	7/24/2024	12/11/2024	100	100	12,000	12,000		n/a	5	2	0	tpss

Peak Daily Regional Emissions (lb./day): 1.5 1.1 3.1 3.9 4.8 5.2 6.3 5.6 7.1 6.0 6.4
Max: 15.1

Alternative 3. Atlantic to Greenwood IOS - Daily Regional Emissions

ROG

Daily Emissions (lb./day)

Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
=== Construction Start ===													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	1.5	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	1.1	--	--	--	--	--	--	--	--	--
=== Guideway, Aerial ===													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	1.5	1.5	1.5	1.5	1.5	1.5	1.5	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	1.5	1.5	1.5
=== Commerce MSF ===													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
=== TPSS ===													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.4	0.4
=== Montebello MSF ===													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
=== Greenwood Station ===													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
=== Greenwood Parking ===													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
=== Guideway, Aerial - Greenwood / Montebello ===													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
=== Guideway, At-Grade - Greenwood / Montebello ===													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
=== Street Widening ===													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
=== Guideway, Sub-Grade - Start ===													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.4	0.4	0.4	0.4	0.4	0.4
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.4
=== Atlantic Station ===													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	1.5	1.5	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	1.5	1.5	1.5	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	0.8	0.8	0.8	0.8

Peak Daily Regional Emissions (lb./day): 15.1 14.0 14.1 12.9 8.5 11.7 --
Max: 15.1

Alternative 3. Atlantic to Greenwood IOS - Daily Regional Emissions			ROG						
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
Atlantic Station - Construction	4/22/2023	8/23/2024	1.5	1.5	1.5	1.5	--	--	--
=== Guideway, Sub-Grade - End ===									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--
=== Commerce Station ===									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--
=== TPSS ===									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	1.5	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.4	0.4	0.4	0.4	--	--
=== Whittier Station ===									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	1.5	1.5	--	--	--	--	--
=== TPSS ===									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	1.5	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.4	0.4	--	--

Peak Daily Regional Emissions (lb./day): 11.2 10.5 22.4 30.7 39.1 43.7 54.2 51.4 63.3 55.6 60.2
Max: 81.8

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

NOX

Daily Emissions (lb./day)

Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	11.2	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	10.5	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	11.2	11.2	11.2	11.2	11.2	11.2	11.2	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	11.9	11.9	11.9
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	3.5	3.5
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	4.6	4.6	4.6	4.6	4.6	4.6
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	4.6
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	11.2	11.2	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	11.2	11.2	11.2	--	--	--	--

Peak Daily Regional Emissions (lb./day): 76.5 68.9 68.2 60.5 25.2 17.3 --
Max: 81.8

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

NOX

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	11.8	11.8	11.8	11.8	--	--	--
==== Guideway, Sub-Grade - End =====									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--
==== Commerce Station =====									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--
==== TPSS =====									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	11.2	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	3.5	3.5	3.5	3.5	--	--
==== Whittier Station =====									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	11.8	11.8	--	--	--	--	--
==== TPSS =====									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	11.2	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	3.5	3.5	--	--

Peak Daily Regional Emissions (lb./day): 15.3 13.6 30.6 41.2 51.8 55.3 69.0 64.3 76.5 66.2 69.7
Max: 96.5

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

CO

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)										
			1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	15.3	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	13.6	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	15.3	15.3	15.3	15.3	15.3	15.3	15.3	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	12.2	12.2	12.2
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	5.0	5.0
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	3.5	3.5	3.5	3.5	3.5	3.5
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	3.5
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	15.3	15.3	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	15.3	15.3	15.3	--	--	--	--

Peak Daily Regional Emissions (lb./day): 96.5 86.2 88.0 77.7 34.8 26.9 --
Max: 96.5

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

CO

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	13.5	13.5	13.5	13.5	--	--	--
==== Guideway, Sub-Grade - End =====									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--
==== Commerce Station =====									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--
==== TPSS =====									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	15.3	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	5.0	5.0	5.0	5.0	--	--
==== Whittier Station =====									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	13.5	13.5	--	--	--	--	--
==== TPSS =====									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	15.3	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	5.0	5.0	--	--

Peak Daily Regional Emissions (lb./day): 0.0 0.0 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2
Max: 0.2

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

SO2

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)										
			1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	0.0	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	0.0	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	0.0	0.0	0.0
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.0	0.0
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.0
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.0	0.0	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.0	0.0	0.0	--	--	--	--

Peak Daily Regional Emissions (lb./day): 0.2 0.2 0.2 0.2 0.1 0.1 --
Max: 0.2

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

SO2

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.0	0.0	0.0	0.0	--	--	--	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.0	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.0	0.0	0.0	0.0	0.0	--	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	--	--	--	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.0	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.0	0.0	0.0	--	--

Peak Daily Regional Emissions (lb./day): 1.8 1.0 3.6 4.2 4.9 5.6 6.6 5.4 6.5 4.9 5.6
Max: 7.3

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

PM10 Total

Daily Emissions (lb./day)

Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	1.8	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	1.0	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	1.8	1.8	1.8	1.8	1.8	1.8	1.8	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	1.0	1.0	1.0
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.2	0.2
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.6
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	1.8	1.8	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	1.8	1.8	1.8	--	--	--	--

Peak Daily Regional Emissions (lb./day): 7.1 5.6 6.7 5.2 2.8 3.3 --
Max: 7.3

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

PM10 Total

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	1.9	1.9	1.9	1.9	1.9	1.9	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	1.8	1.8	1.8	1.8	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	1.9	1.9	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.4	0.4	0.4	0.4	0.4	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	1.4	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	1.0	1.0	1.0	1.0	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.8	0.8	0.8	0.8	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--

Peak Daily Regional Emissions (lb./day): 7.1 5.6 6.7 5.2 2.8 3.3 --
Max: 7.3

**Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions**

PM10 Total

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.6	0.6	0.6	0.6	--	--	--	--
==== Guideway, Sub-Grade - End =====										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	1.8	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.2	0.2	0.2	0.2	--	--	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.6	0.6	--	--	--	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	1.8	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.2	0.2	--	--	--

Peak Daily Regional Emissions (lb./day): 0.7 0.6 1.5 1.9 2.2 2.5 3.1 2.7 3.3 2.8 3.0
Max: 4.1

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

PM2.5 Total

Daily Emissions (lb./day)

Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	0.7	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	0.6	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	0.7	0.7	0.7	0.7	0.7	0.7	0.7	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	0.6	0.6	0.6
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.2	0.2
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.3	0.3	0.3	0.3	0.3	0.3
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.3
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.7	0.7	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.7	0.7	0.7	--	--	--	--

Peak Daily Regional Emissions (lb./day): 4.0 3.4 3.7 3.1 1.5 1.4 --
Max: 4.1

Alternative 3. Atlantic to Greenwood
IOS - Daily Regional Emissions

PM2.5 Total

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.5	0.5	0.5	0.5	--	--	--
==== Guideway, Sub-Grade - End =====									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--
==== Commerce Station =====									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--
==== TPSS =====									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.7	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.2	0.2	0.2	0.2	--	--
==== Whittier Station =====									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.5	0.5	--	--	--	--	--
==== TPSS =====									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.7	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.2	0.2	--	--

Peak Daily On-Site Emissions (lb./day): 1.2 0.9 2.5 3.2 3.9 4.1 5.0 4.5 5.7 4.9 5.1
Max: 13.8

Alternative 3. Atlantic to Greenwood IOS - Daily On-Site Emissions			ROG Daily Emissions (lb./day)										
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
=== Construction Start ===													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	1.2	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	0.9	--	--	--	--	--	--	--	--	--
=== Guideway, Aerial ===													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	1.2	1.2	1.2	1.2	1.2	1.2	1.2	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	1.2	1.2	1.2
=== Commerce MSF ===													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
=== TPSS ===													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.4	0.4
=== Montebello MSF ===													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
=== Greenwood Station ===													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
=== Greenwood Parking ===													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
=== Guideway, Aerial - Greenwood / Montebello ===													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
=== Guideway, At-Grade - Greenwood / Montebello ===													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
=== Street Widening ===													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
=== Guideway, Sub-Grade - Start ===													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.2
=== Atlantic Station ===													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	1.2	1.2	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	1.2	1.2	1.2	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	0.7	0.7	0.7	0.7
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--
=== Guideway, Sub-Grade - End ===													

Peak Daily On-Site Emissions (lb./day): 5.8 7.1 7.8 8.5 8.5 7.1 6.7 8.0 9.0 13.8 13.8
Max: 13.8

Alternative 3. Atlantic to Greenwood IOS - Daily On-Site Emissions			ROG Daily Emissions (lb./day)										
Construction Activity	Start Date	End Date	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	5/17/2024	5/22/2024	6/13/2024
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	1.2	1.2	1.2	1.2	1.2	--	--	--	--	--	--
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	6.0	6.0
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--	--
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	1.2	1.2	1.2	1.2	1.2	1.2	1.2
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	1.2	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	1.2	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	0.9	0.9	0.9
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	1.2	1.2	1.2	1.2	1.2	1.2
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	1.4	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	0.6	0.6	0.6	0.6	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	1.4	1.4	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	1.4
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.7	0.7	0.7	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
==== Guideway, Sub-Grade - End =====													

Peak Daily On-Site Emissions (lb./day): 13.6 12.7 12.5 11.7 7.7 10.5 --
Max: 13.8

Alternative 3. Atlantic to Greenwood IOS - Daily On-Site Emissions			ROG Daily Emissions (lb./day)						
Construction Activity	Start Date	End Date	7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	6.0	6.0	6.0	6.0	6.0	6.0	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	1.2	1.2	1.2	1.2	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	6.0	6.0	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.9	0.9	0.9	0.9	0.9	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	4.5	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	1.2	1.2	1.2	1.2	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	1.4	1.4	1.4	1.4	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	1.4	1.4	1.4	1.4	--	--	--
==== Guideway, Sub-Grade - End =====									

Peak Daily On-Site Emissions (lb./day): 13.6 12.7 12.5 11.7 7.7 10.5 --
Max: 13.8

Alternative 3. Atlantic to Greenwood IOS - Daily On-Site Emissions			ROG							
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	1.2	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.4	0.4	0.4	0.4	--	--	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	1.4	1.4	--	--	--	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	1.2	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.4	0.4	--	--	--

Peak Daily On-Site Emissions (lb./day): 73.7 66.7 65.4 58.4 23.1 14.2 --
Max: 75.0

Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions

NOX

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	8.5	8.5	8.5	8.5	8.5	8.5	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	10.4	10.4	10.4	10.4	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	8.5	8.5	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	7.8	7.8	7.8	7.8	7.8	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	5.7	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	11.1	11.1	11.1	11.1	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	10.6	10.6	10.6	10.6	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	11.7	11.7	11.7	11.7	--	--	--

Peak Daily On-Site Emissions (lb./day): 73.7 66.7 65.4 58.4 23.1 14.2 --
Max: 75.0

**Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions**

NOX

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
=== Guideway, Sub-Grade - End ===										
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	10.4	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	3.4	3.4	3.4	3.4	--	--	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	11.7	11.7	--	--	--	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	10.4	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	3.4	3.4	--	--	--

Peak Daily On-Site Emissions (lb./day): 85.3 77.6 77.0 69.3 27.1 15.6 --
Max: 85.9

Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions

CO

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	8.3	8.3	8.3	8.3	8.3	8.3	8.3	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--
==== Montebello MSF =====										
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	12.3	12.3	12.3	12.3	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	8.3	8.3	--	--
==== Greenwood Station =====										
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	9.6	9.6	9.6	9.6	9.6	--	--	--
==== Greenwood Parking =====										
Parking	5/17/2025	6/4/2025	--	--	--	--	--	7.3	--	--
==== Guideway, Aerial - Greenwood / Montebello =====										
Guideway, Aerial - Track	11/2/2023	11/6/2024	9.7	9.7	9.7	9.7	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====										
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--
==== Street Widening =====										
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	15.6	15.6	15.6	15.6	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	12.9	12.9	12.9	12.9	--	--	--	--

Peak Daily On-Site Emissions (lb./day): 85.3 77.6 77.0 69.3 27.1 15.6 --
Max: 85.9

**Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions**

CO

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
=== Guideway, Sub-Grade - End ===									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--
=== Commerce Station ===									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--
=== TPSS ===									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	12.3	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	4.6	4.6	4.6	4.6	--	--
=== Whittier Station ===									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	12.9	12.9	--	--	--	--	--
=== TPSS ===									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	12.3	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	4.6	4.6	--	--

Peak Daily On-Site Emissions (lb./day): 0.2 0.2 0.2 0.1 0.0 0.0 --
Max: 0.2

**Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions**

SO2

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--
==== Montebello MSF =====										
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	0.0	0.0	0.0	0.0	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	0.0	0.0	--	--
==== Greenwood Station =====										
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.0	0.0	0.0	0.0	0.0	--	--	--
==== Greenwood Parking =====										
Parking	5/17/2025	6/4/2025	--	--	--	--	--	0.0	--	--
==== Guideway, Aerial - Greenwood / Montebello =====										
Guideway, Aerial - Track	11/2/2023	11/6/2024	0.0	0.0	0.0	0.0	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====										
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--
==== Street Widening =====										
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.0	0.0	0.0	0.0	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.0	0.0	0.0	0.0	--	--	--	--

Peak Daily On-Site Emissions (lb./day): 0.2 0.2 0.2 0.1 0.0 0.0 --
Max: 0.2

Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions

SO2

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
=== Guideway, Sub-Grade - End ===									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--
=== Commerce Station ===									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--
=== TPSS ===									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.0	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.0	0.0	0.0	0.0	--	--
=== Whittier Station ===									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	--	--	--	--	--
=== TPSS ===									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.0	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.0	0.0	--	--

Peak Daily On-Site Emissions (lb./day): 4.4 3.5 4.1 3.2 1.0 0.7 --
Max: 4.4

Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions

PM10 Total

Daily Emissions (lb./day)

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--
==== Montebello MSF =====										
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	1.1	1.1	1.1	1.1	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	0.4	0.4	--	--
==== Greenwood Station =====										
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.3	0.3	0.3	0.3	0.3	--	--	--
==== Greenwood Parking =====										
Parking	5/17/2025	6/4/2025	--	--	--	--	--	0.3	--	--
==== Guideway, Aerial - Greenwood / Montebello =====										
Guideway, Aerial - Track	11/2/2023	11/6/2024	0.5	0.5	0.5	0.5	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====										
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--
==== Street Widening =====										
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.5	0.5	0.5	0.5	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.5	0.5	0.5	0.5	--	--	--	--

Peak Daily On-Site Emissions (lb./day): 4.4 3.5 4.1 3.2 1.0 0.7 --
Max: 4.4

Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions

PM10 Total

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
=== Guideway, Sub-Grade - End ===									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--
=== Commerce Station ===									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--
=== TPSS ===									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	1.1	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.2	0.2	0.2	0.2	--	--
=== Whittier Station ===									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.5	0.5	--	--	--	--	--
=== TPSS ===									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	1.1	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.2	0.2	--	--

Peak Daily On-Site Emissions (lb./day): 3.2 2.8 2.9 2.5 1.0 0.6 --
Max: 3.2

Alternative 3. Atlantic to Greenwood
IOS - Daily On-Site Emissions

PM2.5 Total

Daily Emissions (lb./day)

Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
==== Construction Start =====										
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====										
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--
==== Commerce MSF =====										
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.4	0.4	0.4	0.4	0.4	0.4	0.4	--
==== TPSS =====										
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--
==== Montebello MSF =====										
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	0.5	0.5	0.5	0.5	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	0.4	0.4	--	--
==== Greenwood Station =====										
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.3	0.3	0.3	0.3	0.3	--	--	--
==== Greenwood Parking =====										
Parking	5/17/2025	6/4/2025	--	--	--	--	--	0.3	--	--
==== Guideway, Aerial - Greenwood / Montebello =====										
Guideway, Aerial - Track	11/2/2023	11/6/2024	0.4	0.4	0.4	0.4	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====										
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--
==== Street Widening =====										
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.5	0.5	0.5	0.5	--	--	--	--
==== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--
==== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.4	0.4	0.4	0.4	--	--	--	--

Peak Daily On-Site Emissions (lb./day): 3.2 2.8 2.9 2.5 1.0 0.6 --
Max: 3.2

Alternative 3. Atlantic to Greenwood IOS - Daily On-Site Emissions			PM2.5 Total						
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
=== Guideway, Sub-Grade - End ===									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--
=== Commerce Station ===									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--
=== TPSS ===									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.5	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.1	0.1	0.1	0.1	--	--
=== Whittier Station ===									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.4	0.4	--	--	--	--	--
=== TPSS ===									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.5	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.1	0.1	--	--

Peak Daily Off-Site Emissions (lb./day): 0.3 0.2 0.6 0.8 0.9 1.1 1.3 1.1 1.4 1.1 1.3
Max: 1.6

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			ROG Daily Emissions (lb./day)										
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	0.3	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	0.2	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	0.3	0.3	0.3	0.3	0.3	0.3	0.3	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	0.3	0.3	0.3
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.0	0.0
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.2
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.3	0.3	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.3	0.3	0.3	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 1.2 1.6 1.5 1.4 1.4 1.0 0.9 1.2 1.1 1.5 1.3
Max: 1.6

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions

Construction Activity	Start Date	End Date	ROG Daily Emissions (lb./day)										
			3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	5/17/2024	5/22/2024	6/13/2024
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.3	0.3	0.3	0.3	0.3	--	--	--	--	--	--
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	0.7	0.7
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	0.3	0.3	0.3	0.3	0.3	0.3	0.3
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	0.3	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	0.3	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	0.0	0.0	0.0
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	0.3	0.3	0.3	0.3	0.3	0.3
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	0.2	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	0.4	0.4	0.4	0.4	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	0.1	0.1	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	0.1
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.1	0.1	0.1	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 1.5 1.3 1.5 1.2 0.8 1.2 --
Max: 1.6

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			ROG Daily Emissions (lb./day)						
Construction Activity	Start Date	End Date	7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.7	0.7	0.7	0.7	0.7	0.7	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	0.3	0.3	0.3	0.3	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	0.7	0.7	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.0	0.0	0.0	0.0	0.0	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	0.5	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	0.3	0.3	0.3	0.3	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.1	0.1	0.1	0.1	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.1	0.1	0.1	0.1	--	--	--
==== Guideway, Sub-Grade - End =====									

Peak Daily Off-Site Emissions (lb./day): 1.5 1.3 1.5 1.2 0.8 1.2 --
Max: 1.6

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			ROG							
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.3	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.0	0.0	0.0	0.0	0.0	--	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.1	0.1	--	--	--	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.3	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.0	0.0	0.0	--	--

Peak Daily Off-Site Emissions (lb./day): 0.8 1.8 1.6 2.9 4.3 6.9 8.7 9.3 10.0 9.3 11.9
Max: 11.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions

Construction Activity	Start Date	End Date	NOX Daily Emissions (lb./day)										
			1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	0.8	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	1.8	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	0.8	0.8	0.8	0.8	0.8	0.8	0.8	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	0.7	0.7	0.7
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.1	0.1
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	2.6	2.6	2.6	2.6	2.6	2.6
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	2.6
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.8	0.8	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.8	0.8	0.8	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	1.4	1.4	1.4	1.4
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 10.7 11.5 10.3 9.1 9.1 5.7 2.6 3.3 2.8 3.7 3.2
Max: 11.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions

Construction Activity	Start Date	End Date	NOX Daily Emissions (lb./day)										
			3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	5/17/2024	5/22/2024	6/13/2024
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.7	0.7	0.7	0.7	0.7	--	--	--	--	--	--
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	1.7	1.7
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	0.8	0.8	0.8	0.8	0.8	0.8	0.8
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	0.8	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	0.8	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	0.1	0.1	0.1
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	0.7	0.7	0.7	0.7	0.7	0.7
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	1.8	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	1.2	1.2	1.2	1.2	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	0.1	0.1	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	0.1
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	2.6	2.6	2.6	2.6	2.6	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	2.6	2.6	2.6	2.6	2.6	2.6	--	--	--	--	--
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	1.4	1.4	1.4	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 3.8 3.1 3.7 3.1 2.0 3.1 --
Max: 11.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			NOX Daily Emissions (lb./day)						
Construction Activity	Start Date	End Date	7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	1.7	1.7	1.7	1.7	1.7	1.7	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	0.8	0.8	0.8	0.8	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	1.7	1.7	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.1	0.1	0.1	0.1	0.1	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	1.4	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	0.7	0.7	0.7	0.7	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.1	0.1	0.1	0.1	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.2	0.2	0.2	0.2	--	--	--
==== Guideway, Sub-Grade - End =====									

Peak Daily Off-Site Emissions (lb./day): 3.8 3.1 3.7 3.1 2.0 3.1 --
Max: 11.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			NOX							
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.8	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.1	0.1	0.1	0.1	0.1	--	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.2	0.2	--	--	--	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.8	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.1	0.1	0.1	--	--

Peak Daily Off-Site Emissions (lb./day): 3.0 2.1 6.0 7.1 8.3 9.8 11.9 10.1 12.6 9.9 11.5
Max: 14.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions

Construction Activity	Start Date	End Date	CO Daily Emissions (lb./day)										
			1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	3.0	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	2.1	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	3.0	3.0	3.0	3.0	3.0	3.0	3.0	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	2.5	2.5	2.5
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.4	0.4
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	1.5	1.5	1.5	1.5	1.5	1.5
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	1.5
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	3.0	3.0	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	3.0	3.0	3.0	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	1.1	1.1	1.1	1.1
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 10.9 13.9 13.4 12.9 12.9 8.8 9.0 12.0 10.5 14.2 12.5
Max: 14.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions

Construction Activity	Start Date	End Date	CO Daily Emissions (lb./day)									
			3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	5/17/2024	5/22/2024
==== Construction Start =====												
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====												
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	2.5	2.5	2.5	2.5	2.5	--	--	--	--	--
==== Commerce MSF =====												
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	6.7	6.7
==== TPSS =====												
Davie TPSS	1/28/2023	6/16/2023	0.4	0.4	0.4	0.4	0.4	--	--	--	--	--
==== Montebello MSF =====												
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	3.0	3.0	3.0	3.0	3.0	3.0
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====												
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	3.0	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	3.0	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	0.3	0.3
==== Greenwood Parking =====												
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====												
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	2.5	2.5	2.5	2.5	2.5
==== Guideway, At-Grade - Greenwood / Montebello =====												
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	1.6	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	4.2	4.2	4.2	4.2
==== Street Widening =====												
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	1.2	1.2
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	1.2
==== Guideway, Sub-Grade - Start =====												
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	1.5	1.5	1.5	1.5	1.5	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	1.5	1.5	1.5	1.5	1.5	1.5	--	--	--	--
==== Atlantic Station =====												
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	1.1	1.1	1.1	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6	0.6
==== Guideway, Sub-Grade - End =====												

Peak Daily Off-Site Emissions (lb./day): 14.9 12.3 14.7 12.1 7.7 11.4 --
Max: 14.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			CO Daily Emissions (lb./day)						
Construction Activity	Start Date	End Date	7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	6.7	6.7	6.7	6.7	6.7	6.7	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	3.0	3.0	3.0	3.0	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	6.7	6.7	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.3	0.3	0.3	0.3	0.3	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	4.7	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	2.5	2.5	2.5	2.5	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	1.2	1.2	1.2	1.2	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.6	0.6	0.6	0.6	--	--	--
==== Guideway, Sub-Grade - End =====									

Peak Daily Off-Site Emissions (lb./day): 14.9 12.3 14.7 12.1 7.7 11.4 --
Max: 14.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			CO							
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	3.0	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.4	0.4	0.4	0.4	0.4	--	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.6	0.6	--	--	--	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	3.0	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.4	0.4	0.4	--	--

Peak Daily Off-Site Emissions (lb./day): 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.1
Max: 0.1

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions

Construction Activity	Start Date	End Date	SO2 Daily Emissions (lb./day)										
			1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	0.0	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	0.0	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	0.0	0.0	0.0
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.0	0.0
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.0
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.0	0.0	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.0	0.0	0.0	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0
Max: 0.1

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions

Construction Activity	Start Date	End Date	SO2 Daily Emissions (lb./day)										
			3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	5/17/2024	5/22/2024	6/13/2024
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	0.0	0.0
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	0.0	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	0.0	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	0.0	0.0	0.0
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	0.0	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	0.0	0.0	0.0	0.0	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	0.0	0.0	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	0.0
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.0	0.0	0.0	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 0.0 0.0 0.0 0.0 0.0 0.0 --
Max: 0.1

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			SO2 Daily Emissions (lb./day)						
Construction Activity	Start Date	End Date	7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.0	0.0	0.0	0.0	0.0	0.0	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	0.0	0.0	0.0	0.0	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	0.0	0.0	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.0	0.0	0.0	0.0	0.0	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	0.0	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	0.0	0.0	0.0	0.0	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.0	0.0	0.0	0.0	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.0	0.0	0.0	0.0	--	--	--
==== Guideway, Sub-Grade - End =====									

Peak Daily Off-Site Emissions (lb./day): 0.0 0.0 0.0 0.0 0.0 0.0 --
Max: 0.1

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			SO2							
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.0	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.0	0.0	0.0	0.0	0.0	--	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	--	--	--	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.0	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.0	0.0	0.0	--	--

Peak Daily Off-Site Emissions (lb./day): 0.7 0.6 1.4 1.7 2.1 2.6 3.2 2.9 3.5 2.9 3.5
Max: 3.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			PM10 Total Daily Emissions (lb./day)										
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	0.7	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	0.6	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	0.7	0.7	0.7	0.7	0.7	0.7	0.7	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	0.6	0.6	0.6
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.1	0.1
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.6
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.7	0.7	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.7	0.7	0.7	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	0.4	0.4	0.4	0.4
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 3.2 3.9 3.7 3.5 3.5 2.2 2.1 2.7 2.4 3.2 2.8
Max: 3.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			PM10 Total Daily Emissions (lb./day)										
Construction Activity	Start Date	End Date	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	5/17/2024	5/22/2024	6/13/2024
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	1.5	1.5
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	0.1	0.1	0.1	0.1	0.1	--	--	--	--	--	--
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	0.7	0.7	0.7	0.7	0.7	0.7	0.7
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	0.7	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	0.7	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	0.1	0.1	0.1
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	0.6	0.6	0.6	0.6	0.6	0.6
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	0.5	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	1.0	1.0	1.0	1.0	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	0.3	0.3	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	0.3
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.6	0.6	0.6	0.6	0.6	0.6	--	--	--	--	--
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.4	0.4	0.4	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 3.4 2.8 3.3 2.7 1.8 2.6 --
Max: 3.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			PM10 Total Daily Emissions (lb./day)						
Construction Activity	Start Date	End Date	7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	1.5	1.5	1.5	1.5	1.5	1.5	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	0.7	0.7	0.7	0.7	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	1.5	1.5	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.1	0.1	0.1	0.1	0.1	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	1.1	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	0.6	0.6	0.6	0.6	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.3	0.3	0.3	0.3	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.1	0.1	0.1	0.1	--	--	--
==== Guideway, Sub-Grade - End =====									

Peak Daily Off-Site Emissions (lb./day): 3.4 2.8 3.3 2.7 1.8 2.6 --
Max: 3.9

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			PM10 Total							
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
=== Commerce Station ===										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
=== TPSS ===										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.7	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.1	0.1	0.1	0.1	0.1	--	--
=== Whittier Station ===										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.1	0.1	--	--	--	--	--	--
=== TPSS ===										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.7	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.1	0.1	0.1	--	--

Peak Daily Off-Site Emissions (lb./day): 0.2 0.2 0.4 0.5 0.6 0.8 1.0 0.9 1.1 0.9 1.1
Max: 1.2

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			PM2.5 Total Daily Emissions (lb./day)										
Construction Activity	Start Date	End Date	1/1/2022	1/28/2022	8/3/2022	9/3/2022	9/17/2022	10/1/2022	10/19/2022	10/22/2022	10/27/2022	1/28/2023	1/29/2023
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	0.2	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	0.2	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--	--	0.2	0.2	0.2
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	--	--
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--	--	--	0.0	0.0
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	--	--	--	--	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--	--	--	--	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--	--	--	--	0.2
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	0.2	0.2	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	0.2	0.2	0.2	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 1.0 1.2 1.2 1.1 1.1 0.7 0.6 0.8 0.7 0.9 0.8
Max: 1.2

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			PM2.5 Total Daily Emissions (lb./day)										
Construction Activity	Start Date	End Date	3/4/2023	3/8/2023	3/18/2023	4/22/2023	5/13/2023	11/2/2023	2/20/2024	4/26/2024	5/17/2024	5/22/2024	6/13/2024
==== Construction Start =====													
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial =====													
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--
==== Commerce MSF =====													
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	--	--	--	--	--	--	--	--	--	0.4	0.4
==== TPSS =====													
Davie TPSS	1/28/2023	6/16/2023	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--
==== Montebello MSF =====													
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	--	--	--	--	--	--	--
==== Greenwood Station =====													
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--	0.2	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--	0.2	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	--	--	--	--	--	--	--	--	0.0	0.0	0.0
==== Greenwood Parking =====													
Parking	5/17/2025	6/4/2025	--	--	--	--	--	--	--	--	--	--	--
==== Guideway, Aerial - Greenwood / Montebello =====													
Guideway, Aerial - Track	11/2/2023	11/6/2024	--	--	--	--	--	0.2	0.2	0.2	0.2	0.2	0.2
==== Guideway, At-Grade - Greenwood / Montebello =====													
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	0.2	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	0.3	0.3	0.3	0.3	--
==== Street Widening =====													
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--	--	0.1	0.1	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	--	--	--	--	--	--	--	--	--	--	0.1
==== Guideway, Sub-Grade - Start =====													
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	0.2	0.2	0.2	0.2	0.2	0.2	--	--	--	--	--
==== Atlantic Station =====													
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	0.1	0.1	0.1	--	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
==== Guideway, Sub-Grade - End =====													

Peak Daily Off-Site Emissions (lb./day): 1.0 0.8 1.0 0.8 0.5 0.8 --
Max: 1.2

Construction Activity	Start Date	End Date	PM2.5 Total Daily Emissions (lb./day)						
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	--	--	--	--	--	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	--	--	--	--	--	--	--
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	--	--	--	--	--	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	--	--	--	--	--	--	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	--	--	--	--	--	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	0.4	0.4	0.4	0.4	0.4	0.4	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	--	--	--	--	--	--	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	0.2	0.2	0.2	0.2	--	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	--	--	--	--	0.4	0.4	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	--	--	--	--	--	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	--	--	--	--	--	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	0.0	0.0	0.0	0.0	0.0	--	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	--	--	--	--	--	0.3	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	0.2	0.2	0.2	0.2	--	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	--	--	--	--	--	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	--	--	--	--	--	--	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	--	--	--	--	--	--	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	0.1	0.1	0.1	0.1	--	--	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	--	--	--	--	--	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	--	--	--	--	--	--	--
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	--	--	--	--	--	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	--	--	--	--	--	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	--	--	--	--	--	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	0.0	0.0	0.0	0.0	--	--	--
==== Guideway, Sub-Grade - End =====									

Peak Daily Off-Site Emissions (lb./day): 1.0 0.8 1.0 0.8 0.5 0.8 --
Max: 1.2

Alternative 3. Atlantic to Greenwood IOS - Daily Off-Site Emissions			PM2.5 Total							
Construction Activity	Start Date	End Date	Daily Emissions (lb./day)							
			7/6/2024	7/10/2024	7/20/2024	7/24/2024	11/14/2024	5/17/2025	5/18/2025	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	--	--	--	--	--	--	--	--
==== Commerce Station =====										
Commerce Station - Site Clearing	8/3/2022	8/31/2022	--	--	--	--	--	--	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	--	--	--	--	--	--	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	--	--	--	--	--	--	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	--	--	--	--	--	--	--	--
==== TPSS =====										
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.2	--	--	--	--	--	--	--
Commerce TPSS	7/10/2024	11/27/2024	--	0.0	0.0	0.0	0.0	0.0	--	--
==== Whittier Station =====										
Whittier Station - Site Clearing	9/3/2022	9/16/2022	--	--	--	--	--	--	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	--	--	--	--	--	--	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	--	--	--	--	--	--	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	0.0	0.0	--	--	--	--	--	--
==== TPSS =====										
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	--	--	0.2	--	--	--	--	--
Whittier TPSS	7/24/2024	12/11/2024	--	--	--	0.0	0.0	0.0	--	--

Alternative 3
Construction Schedule

Eastside Transit Corridor Phase 2
Appendix A - Construction Emissions Calculations

	Start Date	End Date	56 months		Base Alternative Feature
total construction	1/1/2022	8/25/2026			
operationally essential construction	1/1/2022	5/16/2025	40 months	(excl. MSF, Parking, Street Widening)	Design Option

Alternative 3. Atlantic to Greenwood IOS - Daily Localized Emissions Thresholds

Construction Activity	Start Date	End Date	Modeled Duration (days)	Actual Duration (days)	Modeled Area (sqft)	Actual Area (sqft)	Notes	Based on CalEEMod defaults			CalEEMod Reference	
								Worker Trips/day	Vendor Trips/day	Hauling Trips/day		
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	30	2	100,000.00	3,600	n/a	40	0	11	demo_util_siteprep	
Commerce TPSS	7/10/2024	11/27/2024	100	100	12,000	12,000	n/a	5	2	0	tpss	
===== Whittier Station =====												
Whittier Station - Site Clearing	9/3/2022	9/16/2022	30	10	100,000.00	30,750	STAGING OPTION 1	40	0	11	demo_util_siteprep	
Whittier Station - Site Clearing	9/3/2022	9/14/2022	30	8	100,000.00	25,500	STAGING OPTION 2	40	0	11	demo_util_siteprep	
Whittier Station - Excavation	9/17/2022	3/17/2023	130	130	13,500	13,500		13	0	25	station_underground_cut	
Whittier Station - Construction	3/18/2023	7/19/2024	350	350	8,100	8,100	per ACE team recommendation, maximum duration used in modeling	8	3	0	station_underground	
===== TPSS =====												
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	30	2	100,000.00	3,600	n/a	40	0	11	demo_util_siteprep	
Whittier TPSS	7/24/2024	12/11/2024	100	100	12,000	12,000	n/a	5	2	0	tpss	

Off-Site Emissions Parameters

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2022

Season: Annual
Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Global Warming Potential: 1
https://www.ghgprotocol.org/sites/default/files/ghgp/Global-Warming-Potential-Values%20%28Feb%2016%202016%29_1.pdf
25
298

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_TOTEX	PM2.5_TOTAL	PM10_TOTEX	PM10_PMTW	PM10_PMBW	PM10_TOTAL	CO2_TOTEX	CH4_TOTEX	N2O_TOTEX	ROG_TOTAL	TOG_TOTAL	CO_TOTEX	SOx_TOTEX	Fuel Consumption
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	Gasoline	3949334.32	149966456.8	18636854.28	10.63343663	3.237853661	0.330193248	1.322477773	6.0751332268	7.727803288	46913.6937	1.565236878	1.294721993	15.48972827	16.85662506	166.4165937	0.46424903	4951.890616
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	Diesel	34750.74201	1365564.321	164528.3052	0.11677072	0.040962608	0.01488799	0.012042216	0.05531893	0.082249135	323.9992452	0.001488247	0.050928169	0.032041079	0.036476638	0.443175466	0.003062958	28.8759459
Los Angeles (SC)	2022	LDA	Aggregate	Aggregate	Electricity	78084.60157	3181477.948	389918.6908	0	0.06224888	0	0.028055833	0.128881483	0.156937316	0	0	0	0.004675189	0.004675189	0	0	0
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	Gasoline	458115.2498	17043179.81	2118381.376	2.872978037	0.385460599	0.056543873	0.150295119	0.690418203	0.897257195	6182.097366	0.312931118	0.233435477	4.142404603	4.519375468	32.8284829	0.061176865	652.5401757
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	Diesel	270.6503295	6627.200698	961.4710483	0.007620245	0.001131187	0.001046803	5.84419E-05	0.000268468	0.001373713	3.414361074	6.50557E-05	0.00053669	0.001400611	0.001594502	0.008204657	3.2278E-05	0.304298206
Los Angeles (SC)	2022	LDT1	Aggregate	Aggregate	Electricity	3508.68045	144752.0157	17546.16027	0	0.002833222	0	0.001276494	0.005863896	0.00714039	0	0	0	0.000210214	0.000210214	0	0	0
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	Gasoline	1372144.276	51802172.9	6443902.5	6.971931139	1.12546077	0.121695449	0.456816969	2.098502951	2.677015369	20174.64106	0.77501907	0.631532325	8.345097302	9.105235175	78.27843891	0.199644428	2129.497975
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	Diesel	8920.377392	378460.5711	44003.20424	0.02016489	0.009959046	0.002669561	0.003337451	0.015331415	0.021338427	122.1688394	0.000448239	0.01920324	0.009650315	0.010986242	0.079730074	0.001154935	10.88805719
Los Angeles (SC)	2022	LDT2	Aggregate	Aggregate	Electricity	14383.25646	469869.8144	72773.64326	0	0.009193485	0	0.004143542	0.019034398	0.023177941	0	0	0	0.000866294	0.000866294	0	0	0

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_TOTEX	PM2.5_TOTAL	PM10_TOTEX	PM10_PMTW	PM10_PMBW	PM10_TOTAL	CO2_TOTEX	CH4_TOTEX	N2O_TOTEX	ROG_TOTAL	TOG_TOTAL	CO_TOTEX	SOx_TOTEX	Fuel Consumption
Los Angeles (SC)	2022	T6 instate cons	Aggregate	Aggregate	Diesel	2,519	168,570	11,388	4.79E-01	1.63E-02	5.64E-03	2.23E-03	2.42E-02	3.21E-02	1.86E+02	5.69E-04	2.92E-02	1.23E-02	1.39E-02	4.81E-02	1.76E-03	1.66E+01
Los Angeles (SC)	2022	T6 instate cons	Aggregate	Aggregate	Diesel	8,158	433,957	36,881	1.08E+00	5.33E-02	2.63E-02	5.74E-03	6.23E-02	9.44E-02	4.76E+02	1.89E-03	7.48E-02	4.07E-02	4.63E-02	1.72E-01	4.50E-03	4.24E+01
Los Angeles (SC)	2022	T7 single const	Aggregate	Aggregate	Diesel	4,300	300,391	19,441	1.26E+00	2.17E-02	1.04E-02	1.19E-02	2.04E-02	4.28E-02	4.99E+02	1.48E-03	7.84E-02	3.19E-02	3.63E-02	2.11E-01	4.71E-03	4.45E+01

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_TOTEX	PM2.5_TOTAL	PM10_TOTEX	PM10_PMTW	PM10_PMBW	PM10_TOTAL	CO2_TOTEX	CH4_TOTEX	N2O_TOTEX	ROG_TOTAL	TOG_TOTAL	CO_TOTEX	SOx_TOTEX	Fuel Consumption	
Los Angeles (SC)	2022	VMT-Weighted Aggregate construction on-road hauling/delivery vehicle EMFAC2017 emission factors:								6.26E-03	2.02E-04	9.38E-05	4.41E-05	2.37E-04	3.75E-04	2.57E+00	8.72E-06	4.04E-04	1.88E-04	2.14E-04	9.55E-04	2.43E-05	2.29E-01
Los Angeles (SC)	2022	VMT-Weighted Worker vehicle EMFAC2017 emission factors:								1.84E-04	4.35E-05	4.70E-06	1.76E-05	8.10E-05	1.03E-04	6.57E-01	2.37E-05	1.99E-05	2.50E-04	2.72E-04	2.48E-03	6.50E-06	6.93E-02

pounds per mile	ROG	NOx	CO	SO2	PM10 EXH	PM10 TW	PM10 BW	PM10 ROAD	PM10 Total	PM2.5 ROAD	PM2.5 Total	CO2e
Vendor/Haul Emission Factors	1.88E-04	6.36E-03	9.55E-04	2.43E-05	9.38E-05	4.41E-05	2.37E-04	4.15E-04	7.90E-04	1.02E-04	3.04E-04	2.69E+00
Worker Emission Factors	2.50E-04	1.84E-04	2.48E-03	6.50E-06	4.70E-06	1.76E-05	8.10E-05	4.15E-04	5.19E-04	1.02E-04	1.45E-04	6.64E-01
pounds per trip	ROG	NOx	CO	SO2	PM10 EXH	PM10 TW	PM10 BW	PM10 ROAD	PM10 Total	PM2.5 ROAD	PM2.5 Total	CO2e
Vendor	1.30E-03	4.32E-02	6.59E-03	1.68E-04	6.48E-04	3.04E-04	1.64E-03	2.87E-03	5.45E-03	7.03E-04	2.10E-03	1.86E-01
Hauling	1.56E-03	5.18E-02	7.92E-03	2.01E-04	7.78E-04	3.65E-04	1.96E-03	3.44E-03	6.55E-03	8.45E-04	2.52E-03	2.23E+01
Workers	3.67E-03	2.70E-03	3.64E-02	9.56E-05	6.91E-05	2.59E-04	1.19E-03	6.10E-03	7.62E-03	1.50E-03	2.14E-03	9.76E+00

PM10 Road Dust Calculations

Based on AP-42 13.2.1 equations and parameters such that:

$$E = (k \cdot (sl)^{0.9} \cdot (W)^{1.02}) \cdot (1 - P/4N)$$

where:

E = particulate emission factor

k = particle size multiplier (0.0022 pounds per vehicle mile traveled for PM10; 0.00054 pounds per vehicle mile traveled for PM2.5)

sl = road surface silt loading (grams per square meter, assumed to 0.06 based on AP-42 Table 13.2.1-2 Ubiquitous Baseline category 5,000-10,000)

W = average weight (tons) of the vehicles traveling the road (assumed to be 2.4 tons)

P = number of "wet" days with at least 0.254 mm of precipitation during the averaging period (conservatively assumed 0)

N = number of days in the averaging period

Trip Lengths:

	Miles	
Vendor	6.9	CALEEMOD DEFAULT (one way trip)
Hauling	8.2875	Construction IR indicates Puente Hills, Monterey Park, Irwindale (Scholl Canyon, NuWay) and local landfills like Savage Canyon (averaged distance to alignment used)
Worker	14.7	CALEEMOD DEFAULT (one way trip)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:05 PM

Guideway - Underground - Los Angeles-South Coast County, Summer

Guideway - Underground
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	14.00	1000sqft	0.32	14,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - one, approximately 21-foot diameter bored tunnels at a rate of 30 feet per day; one month

Construction Phase - Project-specified duration

Off-road Equipment - Includes equipment for construction and operation-related utility work; "Other Construction Equipment" represents the electric TBM;

Off-road Equipment - Electric tunnel bore

Off-road Equipment - task-specific equipment to support behind TBM (other equipment is electric TBM)

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Grading - Assumed 100% of tunnel area exported

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:05 PM

Guideway - Underground - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.2361	2.0343	1.9839	5.1600e-003	0.0000	0.0811	0.0811	0.0000	0.0770	0.0770	0.0000	494.2455	494.2455	0.1176	0.0000	497.1850
Maximum	0.2361	2.0343	1.9839	5.1600e-003	0.0000	0.0811	0.0811	0.0000	0.0770	0.0770	0.0000	494.2455	494.2455	0.1176	0.0000	497.1850

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Underground Utilities	Site Preparation	1/1/2024	1/31/2024	5	23	
2	Tunnel Bore	Building Construction	1/1/2024	1/31/2024	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.32

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:05 PM

Guideway - Underground - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Underground Utilities	Cement and Mortar Mixers	1	1.00	9	0.56
Underground Utilities	Concrete/Industrial Saws	1	2.00	81	0.73
Tunnel Bore	Other Construction Equipment	1	24.00	0	0.00
Underground Utilities	Forklifts	1	2.00	89	0.20
Underground Utilities	Rubber Tired Loaders	1	4.00	203	0.36

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Underground Utilities - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2361	2.0343	1.9839	5.1600e-003		0.0811	0.0811		0.0770	0.0770	0.0000	494.2455	494.2455	0.1176		497.1850
Total	0.2361	2.0343	1.9839	5.1600e-003	0.0000	0.0811	0.0811	0.0000	0.0770	0.0770	0.0000	494.2455	494.2455	0.1176		497.1850

3.3 Tunnel Bore - 2024

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:51 PM

Guideway - Trenching, Retaining Wall, Fill Construction - Los Angeles-South Coast County, Summer

Guideway - Trenching, Retaining Wall, Fill Construction
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	37.00	1000sqft	0.85	37,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - distances estimated using Google Earth

Construction Phase - project schedule - 6 months

Off-road Equipment - task-specific equipment

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Grading - 37,000 sqft area measured in Google Earth; 50-ft assumed depth to start boring; excavate half due to incline

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:51 PM

Guideway - Trenching, Retaining Wall, Fill Construction - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.9079	8.6792	11.5389	0.0187	0.0114	0.4017	0.4132	1.7300e-003	0.3713	0.3730	0.0000	1,779.7825	1,779.7825	0.5590	0.0000	1,793.7570
Maximum	0.9079	8.6792	11.5389	0.0187	0.0114	0.4017	0.4132	1.7300e-003	0.3713	0.3730	0.0000	1,779.7825	1,779.7825	0.5590	0.0000	1,793.7570

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Guideway Trenching, Retaining Wall, Fill Construction	Grading	1/1/2024	7/2/2024	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.85

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:51 PM

Guideway - Trenching, Retaining Wall, Fill Construction - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Guideway Trenching, Retaining Wall, Fill	Skid Steer Loaders	1	7.00	65	0.37
Guideway Trenching, Retaining Wall, Fill	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Guideway Trenching, Retaining Wall, Fill	Excavators	1	6.00	158	0.38
Guideway Trenching, Retaining Wall, Fill	Cranes	1	4.00	231	0.29
Guideway Trenching, Retaining Wall, Fill	Rollers	1	4.00	80	0.38
Guideway Trenching, Retaining Wall, Fill	Cement and Mortar Mixers	2	6.00	9	0.56
Guideway Trenching, Retaining Wall, Fill	Forklifts	2	6.00	89	0.20

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Guideway Trenching, Retaining Wall, Fill Construction - 2024

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0114	0.0000	0.0114	1.7300e-003	0.0000	1.7300e-003			0.0000			0.0000
Off-Road	0.9079	8.6792	11.5389	0.0187		0.4017	0.4017		0.3713	0.3713	0.0000	1,779.7825	1,779.7825	0.5590		1,793.7570
Total	0.9079	8.6792	11.5389	0.0187	0.0114	0.4017	0.4132	1.7300e-003	0.3713	0.3730	0.0000	1,779.7825	1,779.7825	0.5590		1,793.7570

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 4:14 PM

Guideway, At-Grade, Site Preparation - Los Angeles-South Coast County, Summer

Guideway, At-Grade, Site Preparation
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	264.00	1000sqft	6.06	264,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - 12.5-ft width per rail (2x), 12.5-ft buffer assumed (2x), 1-mile length segment

Construction Phase - Estimated duration for 1-mile segment: 4 months

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Grading - Assumed import/export of material/ballast (2-ft depth for rail-area only)

Construction Off-road Equipment Mitigation - Watering is required by SCAQMD rules and is not considered mitigation.

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 4:14 PM

Guideway, At-Grade, Site Preparation - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.3642	11.4236	13.6299	0.0272	1.2889	0.5155	1.8043	0.6584	0.4851	1.1435	0.0000	2,614.3404	2,614.3404	0.6635	0.0000	2,630.9287
Maximum	1.3642	11.4236	13.6299	0.0272	1.2889	0.5155	1.8043	0.6584	0.4851	1.1435	0.0000	2,614.3404	2,614.3404	0.6635	0.0000	2,630.9287

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	4/16/2024	5	77	

Acres of Grading (Site Preparation Phase): 19.25

Acres of Grading (Grading Phase): 0

Acres of Paving: 6.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 4:14 PM

Guideway, At-Grade, Site Preparation - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	1	8.00	78	0.48
Site Preparation	Concrete/Industrial Saws	1	4.00	81	0.73
Site Preparation	Excavators	1	7.00	158	0.38
Site Preparation	Off-Highway Trucks	1	4.00	402	0.38
Site Preparation	Rubber Tired Dozers	1	4.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	6.00	97	0.37

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2889	0.0000	1.2889	0.6584	0.0000	0.6584			0.0000			0.0000
Off-Road	1.3642	11.4236	13.6299	0.0272		0.5155	0.5155		0.4851	0.4851	0.0000	2,614.3404	2,614.3404	0.6635		2,630.9287
Total	1.3642	11.4236	13.6299	0.0272	1.2889	0.5155	1.8043	0.6584	0.4851	1.1435	0.0000	2,614.3404	2,614.3404	0.6635		2,630.9287

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 4:33 PM

Guideway, At-Grade, Construction - Los Angeles-South Coast County, Summer

Guideway, At-Grade, Construction
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	132.00	1000sqft	3.03	132,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - 12.5-ft width per rail (2x), 1-mile length segment

Construction Phase - Estimated duration for 1-mile segment: 4 months

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Construction Off-road Equipment Mitigation - Watering is required by SCAQMD rules and is not considered mitigation.

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 4:33 PM

Guideway, At-Grade, Construction - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.6177	4.5140	5.4106	8.5800e-003	0.0000	0.1970	0.1970	0.0000	0.1885	0.1885	0.0000	735.9261	735.9261	0.1588	0.0000	739.8963
Maximum	0.6177	4.5140	5.4106	8.5800e-003	0.0000	0.1970	0.1970	0.0000	0.1885	0.1885	0.0000	735.9261	735.9261	0.1588	0.0000	739.8963

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rail Construction	Building Construction	1/14/2024	4/30/2024	5	77	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.03

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 4:33 PM

Guideway, At-Grade, Construction - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rail Construction	Cement and Mortar Mixers	4	6.00	9	0.56
Rail Construction	Forklifts	2	8.00	89	0.20
Rail Construction	Welders	1	8.00	46	0.45
Rail Construction	Aerial Lifts	1	4.00	63	0.31

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Rail Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6177	4.5140	5.4106	8.5800e-003		0.1970	0.1970		0.1885	0.1885	0.0000	735.9261	735.9261	0.1588		739.8963
Total	0.6177	4.5140	5.4106	8.5800e-003		0.1970	0.1970		0.1885	0.1885	0.0000	735.9261	735.9261	0.1588		739.8963

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 1:18 PM

Guideway - Aerial - Los Angeles-South Coast County, Summer

Guideway - Aerial
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	79.20	1000sqft	1.82	79,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - 0.5-mile long x 30-ft wide elevated rail

Construction Phase - Total elevated trackwork duration (12 months) divided by modeled elevated guideway (1-mile) => 12 months / mile (half mile modeled)

Off-road Equipment - task-specific equipment

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 1:18 PM

Guideway - Aerial - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.2124	11.1245	9.7176	0.0253	0.0000	0.4539	0.4539	0.0000	0.4269	0.4269	0.0000	2,405.0642	2,405.0642	0.6396	0.0000	2,421.0542
Maximum	1.2124	11.1245	9.7176	0.0253	0.0000	0.4539	0.4539	0.0000	0.4269	0.4269	0.0000	2,405.0642	2,405.0642	0.6396	0.0000	2,421.0542

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Guideway Construction	Building Construction	1/1/2024	7/2/2024	5	132	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.82

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 1:18 PM

Guideway - Aerial - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Guideway Construction	Air Compressors	1	6.00	78	0.48
Guideway Construction	Bore/Drill Rigs	1	4.00	221	0.50
Guideway Construction	Cement and Mortar Mixers	2	8.00	9	0.56
Guideway Construction	Concrete/Industrial Saws	1	2.00	81	0.73
Guideway Construction	Cranes	2	6.00	231	0.29
Guideway Construction	Forklifts	1	6.00	89	0.20
Guideway Construction	Aerial Lifts	2	4.00	63	0.31
Guideway Construction	Rubber Tired Loaders	1	4.00	203	0.36

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Guideway Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2124	11.1245	9.7176	0.0253		0.4539	0.4539		0.4269	0.4269	0.0000	2,405.0642	2,405.0642	0.6396		2,421.0542
Total	1.2124	11.1245	9.7176	0.0253		0.4539	0.4539		0.4269	0.4269	0.0000	2,405.0642	2,405.0642	0.6396		2,421.0542

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:03 PM

Station - Underground - Station Construction - Los Angeles-South Coast County, Summer

Station - Underground - Station Construction
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	8.10	1000sqft	0.19	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - Station assumed to be 270 feet long with 30-foot wide platform

Construction Phase - Total underground station construction duration (48 months) divided by total underground station count (3) = 16 months/station

Off-road Equipment - task-specific equipment

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Architectural Coating - station architectural coating

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:03 PM

Station - Underground - Station Construction - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.4310	11.6700	12.8557	0.0274		0.4667	0.4667		0.4476	0.4476	0.0000	2,527.0786	2,527.0786	0.5325		2,540.3917
2025	1.3443	10.8997	12.7825	0.0274		0.4116	0.4116		0.3945	0.3945	0.0000	2,527.0161	2,527.0161	0.5274		2,540.2009
Maximum	1.431	11.67	12.8557	0.0274	#VALUE!	0.4667	0.4667	#VALUE!	0.4476	0.4476	0	2527.0786	2527.0786	0.5325	#VALUE!	2540.3917

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Station Construction	Building Construction	1/1/2024	5/2/2025	5	350	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:03 PM

Station - Underground - Station Construction - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Station Construction	Forklifts	2	6.00	89	0.20
Station Construction	Cranes	1	4.00	231	0.29
Station Construction	Cement and Mortar Mixers	2	6.00	9	0.36
Station Construction	Bore/Drill Rigs	1	4.00	221	0.50
Architectrual Coating	Air Compressors	1	6.00	78	0.48
Station Construction	Skid Steer Loaders	1	6.00	65	0.37
Station Construction	Generator Sets	1	8.00	84	0.74
Station Construction	Welders	2	8.00	46	0.45
Station Construction	Rubber Tired Loaders	1	4.00	203	0.36

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Station Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4310	11.6700	12.8557	0.0274		0.4667	0.4667		0.4476	0.4476	0.0000	2,527.0786	2,527.0786	0.5325		2,540.3917
Total	1.4310	11.6700	12.8557	0.0274		0.4667	0.4667		0.4476	0.4476	0.0000	2,527.0786	2,527.0786	0.5325		2,540.3917

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:03 PM

Station - Underground - Station Construction - Los Angeles-South Coast County, Summer

3.2 Station Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3443	10.8997	12.7825	0.0274		0.4116	0.4116		0.3945	0.3945	0.0000	2,527.0161	2,527.0161	0.5274		2,540.2009
Total	1.3443	10.8997	12.7825	0.0274		0.4116	0.4116		0.3945	0.3945	0.0000	2,527.0161	2,527.0161	0.5274		2,540.2009

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:36 PM

Station - Underground - Cut and Cover - Los Angeles-South Coast County, Summer

Station - Underground - Cut and Cover
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	13.50	1000sqft	0.31	13,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - Station assumed to be 270 feet long with 30-foot width platform (50-ft width modeled to ensure excavation fully captured)

Construction Phase - Total cut and cover duration (18 months) divided by total underground station count (3) = 6 months/station

Off-road Equipment - task-specific equipment

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Grading - per ACE drawings, 190 ft grade minus 130 ft base of station = 60 ft depth excavation total; 20-ft of cover

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:36 PM

Station - Underground - Cut and Cover - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.7127	7.0124	9.4791	0.0188	0.0136	0.2956	0.3092	2.0500e-003	0.2720	0.2740	0.0000	1,816.8725	1,816.8725	0.5876	0.0000	1,831.5628
Maximum	0.7127	7.0124	9.4791	0.0188	0.0136	0.2956	0.3092	2.0500e-003	0.2720	0.2740	0.0000	1,816.8725	1,816.8725	0.5876	0.0000	1,831.5628

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Cut and Cover Construction	Grading	1/1/2024	6/28/2024	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.31

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 2:36 PM

Station - Underground - Cut and Cover - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Cut and Cover Construction	Graders	0	0.00	0	0.00
Cut and Cover Construction	Skid Steer Loaders	1	7.00	65	0.37
Cut and Cover Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Cut and Cover Construction	Bore/Drill Rigs	1	4.00	221	0.50
Cut and Cover Construction	Excavators	1	6.00	158	0.38
Cut and Cover Construction	Cranes	1	4.00	231	0.29

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Cut and Cover Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0136	0.0000	0.0136	2.0500e-003	0.0000	2.0500e-003			0.0000			0.0000
Off-Road	0.7127	7.0124	9.4791	0.0188		0.2956	0.2956		0.2720	0.2720	0.0000	1,816.8725	1,816.8725	0.5876		1,831.5628
Total	0.7127	7.0124	9.4791	0.0188	0.0136	0.2956	0.3092	2.0500e-003	0.2720	0.2740	0.0000	1,816.8725	1,816.8725	0.5876		1,831.5628

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:50 PM

Station - At-Grade - Los Angeles-South Coast County, Summer

Station - At-Grade
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	8.10	1000sqft	0.19	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - Surface station assumed to be 270 feet long with 30 feet of platform

Construction Phase - Total at-grade station construction duration (18 months) divided by total at-grade station count (3) = 6 months/station

Off-road Equipment - Project-specific equipment

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Architectural Coating - architectural coating

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:50 PM

Station - At-Grade - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.7699	6.8620	7.9350	0.0140	0.0000	0.2955	0.2955	0.0000	0.2799	0.2799	0.0000	1,301.5418	1,301.5418	0.2932	0.0000	1,308.8717
Maximum	0.7699	6.8620	7.9350	0.0140	0.0000	0.2955	0.2955	0.0000	0.2799	0.2799	0.0000	1,301.5418	1,301.5418	0.2932	0.0000	1,308.8717

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Station Construction	Building Construction	1/1/2024	5/17/2024	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:50 PM

Station - At-Grade - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Station Construction	Forklifts	1	8.00	89	0.20
Station Construction	Cranes	1	4.00	231	0.29
Station Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Station Construction	Generator Sets	1	4.00	84	0.74
Station Construction	Welders	1	4.00	46	0.45
Station Construction	Cement and Mortar Mixers	2	6.00	9	0.56
Station Construction	Aerial Lifts	1	4.00	63	0.31

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Station Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7699	6.8620	7.9350	0.0140		0.2955	0.2955		0.2799	0.2799	0.0000	1,301.5418	1,301.5418	0.2932		1,308.8717
Total	0.7699	6.8620	7.9350	0.0140		0.2955	0.2955		0.2799	0.2799	0.0000	1,301.5418	1,301.5418	0.2932		1,308.8717

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 1:36 PM

Station - Aerial - Los Angeles-South Coast County, Summer

Station - Aerial
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	8.10	1000sqft	0.19	8,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - Station assumed to be 270 feet long with 30-foot wide platform

Construction Phase - project-specific duration

Off-road Equipment - task-specific equipment (groundwork equipment such as loaders not included since this work would occur under the initial guideway installation)

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Architectural Coating - station architectural coating

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 1:36 PM

Station - Aerial - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.8974	7.84854	9.644105	0.0169485	#VALUE!	0.324245	0.324245	#VALUE!	0.311245	0.311245	0	1588.54801	1588.54801	0.287795	#VALUE!	1595.74292
Maximum	0.8974	7.84854	9.644105	0.0169485	#VALUE!	0.324245	0.324245	#VALUE!	0.311245	0.311245	0	1588.54801	1588.54801	0.287795	#VALUE!	1595.74292

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2024	12/27/2024	5	260	
2	Architectural Coatings	Architectural Coating	5/18/2024	6/5/2024	5	13	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 486 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Architectural Coatings	Air Compressors	1	6.00	78	0.48
Building Construction	Welders	1	8.00	46	0.45
Building Construction	Aerial Lifts	2	6.00	63	0.31

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 1:36 PM

Station - Aerial - Los Angeles-South Coast County, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8797	7.7876	9.5536	0.0168		0.3212	0.3212		0.3082	0.3082	0.0000	1,574.4756	1,574.4756	0.2870		1,581.6507
Total	0.8797	7.7876	9.5536	0.0168		0.3212	0.3212		0.3082	0.3082	0.0000	1,574.4756	1,574.4756	0.2870		1,581.6507

3.3 Architectural Coatings - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.1733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	0.3540	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 10:41 AM

Staging - 100,000sqft - Los Angeles-South Coast County, Summer

Staging - 100,000sqft
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	100.00	1000sqft	2.30	100,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Construction Phase - CalEEMod defaults for 100,000sqft is 3 days for Site Prep and 20 days for Demolition (23 days total); increased duration to simulate lower-intensity site clearing

Off-road Equipment - assumed lower-intensity longer-duration demolition than CalEEMod default

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Demolition - assumed about 75% of site prep includes demolition

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

Off-road Equipment - task-specific equipment

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 10:41 AM

Staging - 100,000sqft - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.225533333	10.39306667	12.27573333	0.023933333	0.63986667	0.4634	1.1032	0.096866667	0.43586667	0.532733333	0	2269.648	2269.648	0.59053333	#VALUE!	2284.41127
Maximum	1.225533333	10.39306667	12.27573333	0.023933333	0.63986667	0.4634	1.1032	0.096866667	0.43586667	0.532733333	0	2269.648	2269.648	0.59053333	#VALUE!	2284.41127

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demo, Site Prep, Util	Demolition	1/1/2024	2/9/2024	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 10:41 AM

Staging - 100,000sqft - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo, Site Prep, Util	Concrete/Industrial Saws	1	4.00	81	0.73
Demo, Site Prep, Util	Rubber Tired Dozers	1	4.00	247	0.40
Demo, Site Prep, Util	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Demo, Site Prep, Util	Air Compressors	1	8.00	78	0.48
Demo, Site Prep, Util	Excavators	1	7.00	158	0.38
Demo, Site Prep, Util	Off-Highway Trucks	1	4.00	402	0.38
Demo, Site Prep, Util	Cement and Mortar Mixers	4	6.00	9	0.56
Demo, Site Prep, Util	Pavers	1	4.00	130	0.42
Demo, Site Prep, Util	Forklifts	2	4.00	89	0.20
Demo, Site Prep, Util	Cranes	1	2.00	231	0.29
Demo, Site Prep, Util	Aerial Lifts	1	6.00	63	0.31

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demo, Site Prep, Util - 2024

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9598	0.0000	0.9598	0.1453	0.0000	0.1453			0.0000			0.0000
Off-Road	1.8383	15.5896	18.4136	0.0359		0.6951	0.6951		0.6538	0.6538	0.0000	3,404.4720	3,404.4720	0.8858		3,426.6169
Total	1.8383	15.5896	18.4136	0.0359	0.9598	0.6951	1.6548	0.1453	0.6538	0.7991	0.0000	3,404.4720	3,404.4720	0.8858		3,426.6169

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 9:46 AM

MSF - Los Angeles-South Coast County, Summer

MSF
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-Rail	177.00	1000sqft	4.06	177,000.00	0
Other Non-Asphalt Surfaces	869.00	1000sqft	19.95	869,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION & OPERATION

Land Use - land-use info based on ACE site drawings

Construction Phase - Demo & Site Prep run separately; caleemod default

Off-road Equipment - task-specific equipment

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 9:46 AM

MSF - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	6.0308	8.5187	8.2582	0.0154	#VALUE!	0.3989	0.3989	#VALUE!	0.3718	0.3718	0.0000	1414.3735	1414.3735	0.4089	#VALUE!	1424.5979
2025	5.9820	7.9304	8.2029	0.0154	#VALUE!	0.3567	0.3567	#VALUE!	0.3329	0.3329	0.0000	1414.6430	1414.6430	0.4090	#VALUE!	1424.8695
Maximum	6.0308	8.5187	8.2582	0.0154	#VALUE!	0.3989	0.3989	#VALUE!	0.3718	0.3718	0.0000	1414.6430	1414.6430	0.4090	#VALUE!	1424.8695

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coatings	Architectural Coating	5/31/2025	6/27/2025	5	20	
2	Building Construction	Building Construction	1/1/2024	5/30/2025	5	370	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 19.95

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 265,500; Non-Residential Outdoor: 88,500; Striped Parking Area: 52,140 (Architectural Coating –

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 9:46 AM

MSF - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coatings	Air Compressors	1	6.00	78	0.48
Building Construction	Cement and Mortar Mixers	4	8.00	9	0.56

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Architectural Coatings - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	94.1230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	94.2938	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

3.3 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9338	8.4568	8.1604	0.0152		0.3961	0.3961		0.3690	0.3690	0.0000	1,399.1601	1,399.1601	0.4081		1,409.3637
Total	0.9338	8.4568	8.1604	0.0152		0.3961	0.3961		0.3690	0.3690	0.0000	1,399.1601	1,399.1601	0.4081		1,409.3637

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 9:46 AM

MSF - Los Angeles-South Coast County, Summer

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8850	7.8685	8.1051	0.0152		0.3539	0.3539		0.3301	0.3301	0.0000	1,399.4296	1,399.4296	0.4082		1,409.6353
Total	0.8850	7.8685	8.1051	0.0152		0.3539	0.3539		0.3301	0.3301	0.0000	1,399.4296	1,399.4296	0.4082		1,409.6353

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:36 PM

Parking - Los Angeles-South Coast County, Summer

Parking
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	370.00	Space	3.33	148,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use -

Construction Phase - 3 months for all surface parking (1820 spaces); 370 spaces at Greenwood (20% of construction time; ~13 days); note that this duration does not include site

Off-road Equipment - Project-specific equipment; pavement breakers included in Staging - Site Clearing

Trips and VMT - Off-Site emissions addressed outside of CalEEMod

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:36 PM

Parking - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	4.5139	5.7143	7.3183	0.0125	0.0000	0.2767	0.2767	0.0000	0.2612	0.2612	0.0000	1,174.1328	1,174.1328	0.2879	0.0000	1,181.3308
Maximum	4.5139	5.7143	7.3183	0.0125	0.0000	0.2767	0.2767	0.0000	0.2612	0.2612	0.0000	1,174.1328	1,174.1328	0.2879	0.0000	1,181.3308

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Parking	Building Construction	1/1/2024	1/17/2024	5	13	
2	Paving	Paving	1/1/2024	1/17/2024	5	13	
3	Striping	Architectural Coating	1/1/2024	1/17/2024	5	13	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 3.33

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,880 (Architectural Coating – sqft)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:36 PM

Parking - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Parking	Cranes	1	2.00	231	0.29
Parking	Forklifts	2	6.00	89	0.20
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Striping	Air Compressors	1	6.00	78	0.48

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Parking - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2242	2.2014	2.1526	3.7400e-003		0.1130	0.1130		0.1040	0.1040	0.0000	361.7481	361.7481	0.1170		364.6730
Total	0.2242	2.2014	2.1526	3.7400e-003		0.1130	0.1130		0.1040	0.1040	0.0000	361.7481	361.7481	0.1170		364.6730

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 3:36 PM

Parking - Los Angeles-South Coast County, Summer

3.3 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2718	2.2941	3.3555	5.7700e-003		0.1028	0.1028		0.0963	0.0963	0.0000	530.9367	530.9367	0.1551		534.8136
Paving	0.6711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9429	2.2941	3.3555	5.7700e-003		0.1028	0.1028		0.0963	0.0963	0.0000	530.9367	530.9367	0.1551		534.8136

3.4 Striping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.1661					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	3.3468	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 5:52 PM

Street Widening - Los Angeles-South Coast County, Summer

Street Widening
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.00	1000sqft	0.09	4,000.00	0
Other Non-Asphalt Surfaces	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Land Use - Assumed 20% as concrete sidewalks

Construction Phase - Total street widening duration (36 months) divided by total street widening area (100,000sqft) = 0.9 months/5000sqft (5000sqft modeled)

Off-road Equipment - task-specific equipment (air compressor for jackhammers; crushing/proc. equip for milling machine; rollers for compacting); most equipment would not

Off-road Equipment - task-specific equipment (air compressor for striping)

Trips and VMT - off-site emissions estimated outside of CalEEMod

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

Off-road Equipment - task-specific equipment (air compressors for jackhammers)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 5:52 PM

Street Widening - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.3553	10.5802	15.6486	0.0249	0.0000	0.5034	0.5034	0.0000	0.4806	0.4806	0.0000	2,339.2705	2,339.2705	0.5035	0.0000	2,351.8579
Maximum	1.3553	10.5802	15.6486	0.0249	0.0000	0.5034	0.5034	0.0000	0.4806	0.4806	0.0000	2,339.2705	2,339.2705	0.5035	0.0000	2,351.8579

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	General Construction	Building Construction	1/1/2024	2/23/2024	5	40	
2	Striping	Architectural Coating	1/1/2024	2/23/2024	5	40	
3	Paving	Paving	1/1/2024	2/23/2024	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 300 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 5:52 PM

Street Widening - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
General Construction	Crushing/Proc. Equipment	1	2.00	85	0.78
General Construction	Excavators	1	4.00	158	0.38
General Construction	Forklifts	1	6.00	89	0.20
General Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Striping	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
General Construction	Air Compressors	1	8.00	78	0.48
General Construction	Aerial Lifts	1	4.00	63	0.31

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 General Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6694	5.3989	8.7633	0.0134		0.2578	0.2578		0.2463	0.2463	0.0000	1,285.6291	1,285.6291	0.2712		1,292.4087
Total	0.6694	5.3989	8.7633	0.0134		0.2578	0.2578		0.2463	0.2463	0.0000	1,285.6291	1,285.6291	0.2712		1,292.4087

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 5:52 PM

Street Widening - Los Angeles-South Coast County, Summer

3.3 Striping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0348					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	0.2155	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

3.4 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4644	3.9625	5.0752	8.5400e-003		0.1847	0.1847		0.1734	0.1734	0.0000	772.1934	772.1934	0.2165		777.6049
Paving	5.9000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4703	3.9625	5.0752	8.5400e-003		0.1847	0.1847		0.1734	0.1734	0.0000	772.1934	772.1934	0.2165		777.6049

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 8:51 AM

TPSS - Los Angeles-South Coast County, Summer

TPSS
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	12.00	1000sqft	0.28	12,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2050
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION

Off-road Equipment - task-specific equipment; crane used only for installation of pre-fab TPSS unit

Trips and VMT - off-site emissions estimated outside of CalEEMod

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 for Large Operations (NOT MITIGATION)

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 8:51 AM

TPSS - Los Angeles-South Coast County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.3778	3.3814	4.5800	7.6800e-003	5.0000e-005	0.1571	0.1571	2.0000e-005	0.1454	0.1454	0.0000	729.3299	729.3299	0.2278	2.7000e-004	735.1039
Maximum	0.3778	3.3814	4.5800	7.6800e-003	5.0000e-005	0.1571	0.1571	2.0000e-005	0.1454	0.1454	0.0000	729.3299	729.3299	0.2278	2.7000e-004	735.1039

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2024	5/20/2024	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 8:51 AM

TPSS - Los Angeles-South Coast County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Forklifts	1	4.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	2.00	231	0.29
Building Construction	Excavators	1	4.00	158	0.38

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Building Construction - 2024

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3721	3.3794	4.5591	7.6700e-003		0.1570	0.1570		0.1453	0.1453	0.0000	728.3976	728.3976	0.2273		734.0791
Total	0.3721	3.3794	4.5591	7.6700e-003		0.1570	0.1570		0.1453	0.1453	0.0000	728.3976	728.3976	0.2273		734.0791



ATTACHMENT B – CONSTRUCTION HEALTH RISK ASSESSMENT CALCULATIONS

Alternative 1. Washington - Tier 2 HHRA Inputs by TAC

South Coast Air Quality Management District (SCAQMD) Risk Assessment (RA) Procedures for Rules 1401 and 212 RiskTool Inputs

		Emission Type		Particulates					Organics			
Emissions (average lb./hr over project construction)												
CARB Speciation Profile			400	471	472	473	420	2303	2303	2303		
Compound	CAS Registry Number	Tier 2 Screening Pollutant Code	Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing	Total
Particulate Emissions from Diesel-Fueled Engines		P1	5.56E-02	--	--	--	--	--	--	--	--	5.56E-02
Ammonia	7664-41-7	A9	--	--	4.57E-06	1.58E-08	1.21E-08	4.25E-06	--	--	--	8.85E-06
Arsenic	7440-38-2	A11	--	--	2.06E-08	--	4.02E-09	6.46E-07	--	--	--	6.71E-07
Cadmium	7440-43-9	C1	--	--	4.75E-09	--	--	1.05E-06	--	--	--	1.05E-06
Chlorine	7782-50-5	C7	--	1.06E-06	8.45E-07	6.48E-07	6.03E-07	1.14E-04	--	--	--	1.18E-04
Copper	7440-50-8	C23	--	7.56E-09	2.35E-07	4.07E-08	4.62E-06	3.72E-06	--	--	--	8.62E-06
Lead	7439-92-1	L1	--	--	1.96E-07	1.33E-08	2.01E-08	1.89E-05	--	--	--	1.91E-05
Manganese	7439-96-5	M2	--	7.56E-09	1.27E-06	8.30E-09	6.84E-07	3.10E-05	--	--	--	3.29E-05
Mercury	7439-97-6	M3	--	--	1.43E-08	--	--	5.39E-07	--	--	--	5.53E-07
Nickel	7440-02-0	N12	--	7.56E-09	1.90E-08	4.15E-09	2.65E-07	2.05E-06	--	--	--	2.34E-06
Selenium	7782-49-2	S1	--	--	3.17E-09	1.66E-09	8.04E-09	8.08E-08	--	--	--	9.37E-08
Vanadium	7440-62-2	V1	--	--	1.12E-07	--	2.65E-07	8.91E-06	--	--	--	9.29E-06
1,3-butadiene	106-99-0	B12	--	--	--	--	--	--	1.95E-06	--	--	1.95E-06
Acetaldehyde	75-07-0	A1	--	--	--	--	--	--	7.24E-06	--	--	7.24E-06
Acrolein (or 2-propenal)	107-02-8	A3	--	--	--	--	--	--	1.14E-08	--	--	1.14E-08
Benzene	71-43-2	B1	--	--	--	--	--	--	3.13E-05	--	--	3.13E-05
Ethylbenzene	100-41-4	E3	--	--	--	--	--	--	9.00E-06	8.17E-03	6.60E-05	8.25E-03
Formaldehyde	50-00-0	F2	--	--	--	--	--	--	1.73E-05	--	--	1.73E-05
Methyl alcohol (or methanol)	67-56-1	M5	--	--	--	--	--	--	1.65E-07	7.41E-03	--	7.41E-03
Methyl ethyl ketone (or MEK 2-butanone)	78-93-3	M9	--	--	--	--	--	--	1.21E-06	1.06E-02	--	1.06E-02
Methyl tert-butyl ether (or Methyl t-butyl ether MTB)	1634-04-4	M7	--	--	--	--	--	--	3.76E-06	--	--	3.76E-06
m-xylene	108-38-3	X2	--	--	--	--	--	--	1.82E-05	--	--	1.82E-05
Naphthalene	91-20-3	P62	--	--	--	--	--	--	2.96E-06	--	--	2.96E-06
N-hexane	110-54-3	H6	--	--	--	--	--	--	6.25E-06	3.93E-02	--	3.93E-02
O-xylene	95-47-6	X3	--	--	--	--	--	--	1.30E-05	--	1.06E-04	1.19E-04
Propylene (or Propene 1-Propene)	115-07-1	P69	--	--	--	--	--	--	1.77E-05	--	--	1.77E-05
p-xylene	106-42-3	X4	--	--	--	--	--	--	9.61E-06	--	--	9.61E-06
Styrene	100-42-5	S6	--	--	--	--	--	--	1.76E-06	--	--	1.76E-06
Toluene	108-88-3	T3	--	--	--	--	--	--	3.82E-05	9.88E-03	1.84E-04	1.01E-02
Isopropyl alcohol (or 2-Propanol)	67-63-0	I2	--	--	--	--	--	--	--	3.12E-02	--	3.12E-02
Ethylene glycol	107-21-1	E7	--	--	--	--	--	--	--	1.14E-03	--	1.14E-03
Dimethyl formamide	68-12-2	D10	--	--	--	--	--	--	--	9.50E-04	--	9.50E-04
2-ethoxyethyl acetate (or cellosolve acetate)	111-15-9	E16	--	--	--	--	--	--	--	2.47E-03	--	2.47E-03
Isomers of xylene	1330-20-7	X1	--	--	--	--	--	--	--	4.94E-03	2.44E-04	5.18E-03

Alternative 2. Atlantic to Citadel IOS - Tier 2 HHRA Inputs by TAC

South Coast Air Quality Management District (SCAQMD) Risk Assessment (RA) Procedures for Rules 1401 and 212 RiskTool Inputs

		Emission Type	Particulates					Organics				
Emissions (average lb./hr over project construction)			6.95E-02	1.89E-05	1.98E-03	1.04E-04	5.04E-04	3.42E-02	1.01E-03	2.38E-01	0.00E+00	
CARB Speciation Profile			--	400	471	472	473	420	2303	2303	2303	
Compound	CAS Registry Number	Tier 2 Screening Pollutant Code	Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing	Total
Particulate Emissions from Diesel-Fueled Engines		P1	6.95E-02	--	--	--	--	--	--	--	--	6.95E-02
Ammonia	7664-41-7	A9	--	--	5.73E-06	1.98E-08	1.51E-08	5.40E-06	--	--	--	1.12E-05
Arsenic	7440-38-2	A11	--	--	2.58E-08	--	5.04E-09	8.21E-07	--	--	--	8.51E-07
Cadmium	7440-43-9	C1	--	--	5.95E-09	--	--	1.33E-06	--	--	--	1.34E-06
Chlorine	7782-50-5	C7	--	1.33E-06	1.06E-06	8.12E-07	7.56E-07	1.45E-04	--	--	--	1.49E-04
Copper	7440-50-8	C23	--	9.47E-09	2.94E-07	5.10E-08	5.79E-06	4.72E-06	--	--	--	1.09E-05
Lead	7439-92-1	L1	--	--	2.46E-07	1.66E-08	2.52E-08	2.40E-05	--	--	--	2.43E-05
Manganese	7439-96-5	M2	--	9.47E-09	1.59E-06	1.04E-08	8.56E-07	3.93E-05	--	--	--	4.18E-05
Mercury	7439-97-6	M3	--	--	1.79E-08	--	--	6.84E-07	--	--	--	7.02E-07
Nickel	7440-02-0	N12	--	9.47E-09	2.38E-08	5.20E-09	3.33E-07	2.60E-06	--	--	--	2.97E-06
Selenium	7782-49-2	S1	--	--	3.97E-09	2.08E-09	1.01E-08	1.03E-07	--	--	--	1.19E-07
Vanadium	7440-62-2	V1	--	--	1.41E-07	--	3.33E-07	1.13E-05	--	--	--	1.18E-05
1,3-butadiene	106-99-0	B12	--	--	--	--	--	--	2.45E-06	--	--	2.45E-06
Acetaldehyde	75-07-0	A1	--	--	--	--	--	--	9.07E-06	--	--	9.07E-06
Acrolein (or 2-propenal)	107-02-8	A3	--	--	--	--	--	--	1.43E-08	--	--	1.43E-08
Benzene	71-43-2	B1	--	--	--	--	--	--	3.92E-05	--	--	3.92E-05
Ethylbenzene	100-41-4	E3	--	--	--	--	--	--	1.13E-05	1.02E-02	0.00E+00	1.02E-02
Formaldehyde	50-00-0	F2	--	--	--	--	--	--	2.16E-05	--	--	2.16E-05
Methyl alcohol (or methanol)	67-56-1	M5	--	--	--	--	--	--	2.06E-07	9.28E-03	--	9.28E-03
Methyl ethyl ketone (or MEK 2-butanone)	78-93-3	M9	--	--	--	--	--	--	1.52E-06	1.33E-02	--	1.33E-02
Methyl tert-butyl ether (or Methyl t-butyl ether MTB)	1634-04-4	M7	--	--	--	--	--	--	4.71E-06	--	--	4.71E-06
m-xylene	108-38-3	X2	--	--	--	--	--	--	2.28E-05	--	--	2.28E-05
Naphthalene	91-20-3	P62	--	--	--	--	--	--	3.71E-06	--	--	3.71E-06
N-hexane	110-54-3	H6	--	--	--	--	--	--	7.83E-06	4.93E-02	--	4.93E-02
O-xylene	95-47-6	X3	--	--	--	--	--	--	1.62E-05	--	0.00E+00	1.62E-05
Propylene (or Propene 1-Propene)	115-07-1	P69	--	--	--	--	--	--	2.21E-05	--	--	2.21E-05
p-xylene	106-42-3	X4	--	--	--	--	--	--	1.20E-05	--	--	1.20E-05
Styrene	100-42-5	S6	--	--	--	--	--	--	2.20E-06	--	--	2.20E-06
Toluene	108-88-3	T3	--	--	--	--	--	--	4.79E-05	1.24E-02	0.00E+00	1.24E-02
Isopropyl alcohol (or 2-Propanol)	67-63-0	I2	--	--	--	--	--	--	--	3.90E-02	--	3.90E-02
Ethylene glycol	107-21-1	E7	--	--	--	--	--	--	--	1.43E-03	--	1.43E-03
Dimethyl formamide	68-12-2	D10	--	--	--	--	--	--	--	1.19E-03	--	1.19E-03
2-ethoxyethyl acetate (or cellosolve acetate)	111-15-9	E16	--	--	--	--	--	--	--	3.09E-03	--	3.09E-03
Isomers of xylene	1330-20-7	X1	--	--	--	--	--	--	--	6.19E-03	0.00E+00	6.19E-03

Alternative 3. Atlantic to Greenwood IOS - Tier 2 HHRA Inputs by TAC

South Coast Air Quality Management District (SCAQMD) Risk Assessment (RA) Procedures for Rules 1401 and 212 RiskTool Inputs

		Emission Type		Particulates					Organics			
Emissions (average lb./hr over project construction)												
CARB Speciation Profile			400	471	472	473	420	2303	2303	2303		
Compound	CAS Registry Number	Tier 2 Screening Pollutant Code	Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing	Total
Particulate Emissions from Diesel-Fueled Engines		P1	5.69E-02	--	--	--	--	--	--	--	--	5.69E-02
Ammonia	7664-41-7	A9	--	--	4.69E-06	1.62E-08	1.24E-08	4.43E-06	--	--	--	9.15E-06
Arsenic	7440-38-2	A11	--	--	2.11E-08	--	4.13E-09	6.72E-07	--	--	--	6.98E-07
Cadmium	7440-43-9	C1	--	--	4.88E-09	--	--	1.09E-06	--	--	--	1.10E-06
Chlorine	7782-50-5	C7	--	1.09E-06	8.67E-07	6.65E-07	6.19E-07	1.19E-04	--	--	--	1.22E-04
Copper	7440-50-8	C23	--	7.76E-09	2.41E-07	4.18E-08	4.74E-06	3.87E-06	--	--	--	8.90E-06
Lead	7439-92-1	L1	--	--	2.02E-07	1.36E-08	2.06E-08	1.96E-05	--	--	--	1.99E-05
Manganese	7439-96-5	M2	--	7.76E-09	1.30E-06	8.52E-09	7.02E-07	3.22E-05	--	--	--	3.42E-05
Mercury	7439-97-6	M3	--	--	1.46E-08	--	--	5.60E-07	--	--	--	5.75E-07
Nickel	7440-02-0	N12	--	7.76E-09	1.95E-08	4.26E-09	2.72E-07	2.13E-06	--	--	--	2.43E-06
Selenium	7782-49-2	S1	--	--	3.25E-09	1.70E-09	8.26E-09	8.40E-08	--	--	--	9.73E-08
Vanadium	7440-62-2	V1	--	--	1.15E-07	--	2.72E-07	9.27E-06	--	--	--	9.66E-06
1,3-butadiene	106-99-0	B12	--	--	--	--	--	--	2.00E-06	--	--	2.00E-06
Acetaldehyde	75-07-0	A1	--	--	--	--	--	--	7.43E-06	--	--	7.43E-06
Acrolein (or 2-propenal)	107-02-8	A3	--	--	--	--	--	--	1.17E-08	--	--	1.17E-08
Benzene	71-43-2	B1	--	--	--	--	--	--	3.21E-05	--	--	3.21E-05
Ethylbenzene	100-41-4	E3	--	--	--	--	--	--	9.24E-06	8.39E-03	2.42E-05	8.42E-03
Formaldehyde	50-00-0	F2	--	--	--	--	--	--	1.77E-05	--	--	1.77E-05
Methyl alcohol (or methanol)	67-56-1	M5	--	--	--	--	--	--	1.69E-07	7.61E-03	--	7.61E-03
Methyl ethyl ketone (or MEK 2-butanone)	78-93-3	M9	--	--	--	--	--	--	1.24E-06	1.09E-02	--	1.09E-02
Methyl tert-butyl ether (or Methyl t-butyl ether MTB)	1634-04-4	M7	--	--	--	--	--	--	3.86E-06	--	--	3.86E-06
m-xylene	108-38-3	X2	--	--	--	--	--	--	1.87E-05	--	--	1.87E-05
Naphthalene	91-20-3	P62	--	--	--	--	--	--	3.04E-06	--	--	3.04E-06
N-hexane	110-54-3	H6	--	--	--	--	--	--	6.42E-06	4.04E-02	--	4.04E-02
O-xylene	95-47-6	X3	--	--	--	--	--	--	1.33E-05	--	3.90E-05	5.23E-05
Propylene (or Propene 1-Propene)	115-07-1	P69	--	--	--	--	--	--	1.81E-05	--	--	1.81E-05
p-xylene	106-42-3	X4	--	--	--	--	--	--	9.86E-06	--	--	9.86E-06
Styrene	100-42-5	S6	--	--	--	--	--	--	1.80E-06	--	--	1.80E-06
Toluene	108-88-3	T3	--	--	--	--	--	--	3.92E-05	1.01E-02	6.74E-05	1.02E-02
Isopropyl alcohol (or 2-Propanol)	67-63-0	I2	--	--	--	--	--	--	--	3.20E-02	--	3.20E-02
Ethylene glycol	107-21-1	E7	--	--	--	--	--	--	--	1.17E-03	--	1.17E-03
Dimethyl formamide	68-12-2	D10	--	--	--	--	--	--	--	9.75E-04	--	9.75E-04
2-ethoxyethyl acetate (or cellosolve acetate)	111-15-9	E16	--	--	--	--	--	--	--	2.54E-03	--	2.54E-03
Isomers of xylene	1330-20-7	X1	--	--	--	--	--	--	--	5.07E-03	8.96E-05	5.16E-03

pounds:

Note: Coating and Paving for "Parking", "MSF", and "Stations" only.

Alternative 1, Washington - Daily Localized Emissions for HRA

Construction Activity	Start Date	End Date	Sheet	Exhaust Emissions (lb./day) PM10	Manually input Coating Emissions (lb./day) ROG	Manually input Paving Emissions (lb./day) ROG	1/4 mile of trip included in emissions for HHRA calculations		
							Worker Trips/day	Vendor Trips/day	Hauling Trips/day
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	guideway-underground-transition	0.4	--	--	0.4	--	1.0
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Guideway, Aerial - Track	10/27/2022	11/1/2023	guideway_aerial	0.5	--	--	0.6	0.5	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
MSF - Commerce - Construction	5/22/2024	10/22/2025	msf	0.4	5.1	--	1.5	1.1	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	tpss	0.2	--	--	0.1	0.1	--
==== Montebello MSF =====									
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
MSF - Montebello - Construction	11/14/2024	8/25/2026	msf	0.4	5.1	--	1.5	1.1	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	station_aerial	0.3	0.1733	--	0.1	0.0	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	parking	0.3	3.2	0.7	1.1	0.9	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	guideway_aerial	0.5	--	--	0.6	0.5	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	guideway_grade_site	1.8	--	--	0.3	--	1.0
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	guideway_grade_rail	0.2	--	--	0.9	0.8	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	roadways	0.5	0.0	0.0	0.3	0.0	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	roadways	0.5	0.1	0.0	0.3	0.0	--
==== Guideway, At-Grade =====									
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	guideway_grade_site	1.8	--	--	0.3	--	1.0
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	guideway_grade_rail	0.2	--	--	0.9	0.8	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	guideway_grade_site	1.8	--	--	0.3	--	1.0
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	guideway_grade_rail	0.2	--	--	0.9	0.8	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	guideway_grade_site	1.8	--	--	0.3	--	1.0
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	guideway_grade_rail	0.2	--	--	0.9	0.8	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	guideway_grade_site	1.8	--	--	0.3	--	1.0

pounds:

Alternative 1, Washington - Daily Localized Emissions for HRA

Note: Coating and Paving for "Parking", "MSF", and "Stations" only.

Construction Activity	Start Date	End Date	Sheet	Exhaust Emissions (lb./day) PM10	Manually input	Manually input	1/4 mile of trip included in emissions for HHRA calculations			
					Coating Emissions (lb./day) ROG	Paving Emissions (lb./day) ROG	Worker Trips/day	Vendor Trips/day	Hauling Trips/day	
San Gabriel Crossing	12/12/2024	8/11/2025	guideway_aerial	0.5	--	--	0.6	0.5	--	
===== Street Widening =====										
Street Widening - Washington N Pioneer	8/12/2025	10/9/2025	roadways	0.5	0.0	0.0	0.3	0.0	--	
Street Widening - Washington Norwalk	10/10/2025	4/6/2026	roadways	0.5	0.1	0.0	0.3	0.0	--	
===== Norwalk Station =====										
Norwalk Station - Site Clearing	7/15/2025	7/31/2025	demo_util_siteprep	1.1	--	--	0.7	--	0.3	
Norwalk Station - Site Clearing	7/15/2025	7/28/2025	demo_util_siteprep	1.1	--	--	0.7	--	0.3	
Norwalk Station - Station Construction (At-Grade)	8/1/2025	12/19/2025	station_grade	0.3	--	--	0.1	0.1	--	
===== Norwalk Parking =====										
Parking	12/20/2025	1/8/2026	parking	0.3	3.3	0.7	1.1	0.9	--	
===== TPSS =====										
Norwalk TPSS	12/20/2025	2/26/2026	tpss	0.2	--	--	0.1	0.1	--	
===== Street Widening =====										
Street Widening - Washington Duchess	4/7/2026	6/30/2026	roadways	0.5	0.1	0.0	0.3	0.0	--	
Street Widening - Washington Vanport	7/1/2026	8/13/2026	roadways	0.5	0.0	0.0	0.3	0.0	--	
Street Widening - Washington Broadway	7/15/2025	9/15/2025	roadways	0.5	0.0	0.0	0.3	0.0	--	
===== TPSS =====										
Appledale TPSS - Site Clearing	12/3/2025	12/5/2025	demo_util_siteprep	1.1	--	--	0.7	--	0.3	
Appledale TPSS	12/6/2025	1/15/2026	tpss	0.2	--	--	0.1	0.1	--	
===== Lambert Station =====										
Lambert Station - Site Clearing	9/24/2025	12/22/2025	demo_util_siteprep	1.1	--	--	0.7	--	0.3	
Lambert Station - Station Construction (At-Grade)	12/23/2025	5/12/2026	station_grade	0.3	--	--	0.1	0.1	--	
===== Lambert Parking =====										
Parking	5/13/2026	6/15/2026	parking	0.3	5.6	1.2	1.1	0.9	--	
===== TPSS =====										
Lambert TPSS	12/23/2025	5/12/2026	tpss	0.2	--	--	0.1	0.1	--	
===== Street Widening =====										
Street Widening - Washington Lambert	12/23/2025	1/15/2026	roadways	0.5	0.0	0.0	0.3	0.0	--	
===== Guideway, Sub-Grade - Start =====										
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	guideway_underground	0.1	--	--	0.3	0.1	1.4	
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	guideway_underground	0.1	--	--	0.3	0.1	1.4	
===== Atlantic Station =====										
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3	
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3	
Atlantic Station - Excavation	10/22/2022	4/21/2023	station_underground_cut cover	0.3	--	--	0.2	--	0.8	
Atlantic Station - Construction	4/22/2023	8/23/2024	station_underground	0.5	--	--	0.1	0.1	--	
===== Guideway, Sub-Grade - End =====										

pounds:

Note: Coating and Paving for "Parking", "MSF", and "Stations" only.

Alternative 1, Washington - Daily Localized Emissions for HRA

Construction Activity	Start Date	End Date	Sheet	Exhaust Emissions (lb./day) PM10	Manually input	Manually input	1/4 mile of trip included in emissions for HHRA calculations		
					Coating Emissions (lb./day) ROG	Paving Emissions (lb./day) ROG	Worker Trips/day	Vendor Trips/day	Hauling Trips/day
Guideway, Underground - Trenching, Retaining Wall, Fill Construction ===== Commerce Station =====	10/19/2022	9/23/2023	guideway_underground_tr ansition	0.4	--	--	0.4	--	1.0
Commerce Station - Site Clearing	8/3/2022	8/31/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce Station - Site Clearing	8/3/2022	9/2/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce Station - Excavation	9/3/2022	3/3/2023	station_underground_cut cover	0.3	--	--	0.2	--	0.8
Commerce Station - Construction ===== TPSS =====	3/4/2023	7/5/2024	station_underground	0.5	--	--	0.1	0.1	--
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce TPSS ===== Whittier Station =====	7/10/2024	11/27/2024	tpss	0.2	--	--	0.1	0.1	--
Whittier Station - Site Clearing	9/3/2022	9/16/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier Station - Site Clearing	9/3/2022	9/14/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier Station - Excavation	9/17/2022	3/17/2023	station_underground_cut cover	0.3	--	--	0.2	--	0.8
Whittier Station - Construction ===== TPSS =====	3/18/2023	7/19/2024	station_underground	0.5	--	--	0.1	0.1	--
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier TPSS	7/24/2024	12/11/2024	tpss	0.2	--	--	0.1	0.1	--

Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing
553.58	0.15	15.77	0.83	4.00	267.96	8.00	1,890.97	28.34

Alternative 1, Washington - Daily Localized Emissions for HRA

Construction Activity	Start Date	End Date	Total Particulate Emissions (pounds)					Total Organic Emissions (pounds)			
			Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing
==== Construction Start =====											
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	8.8	0.0	0.2	0.0	0.0	11.0	0.1	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	55.1	0.0	1.1	0.1	0.4	--	0.4	--	--
==== Guideway, Aerial =====											
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	59.3	0.0	1.2	0.1	0.3	74.2	0.6	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	120.4	0.0	2.2	0.1	0.6	--	1.1	--	--
==== Commerce MSF =====											
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	146.1	0.0	3.0	0.1	0.7	182.7	1.6	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	148.2	0.1	8.0	0.4	2.0	--	4.1	1,891.0	--
==== TPSS =====											
Davie TPSS	1/28/2023	6/16/2023	15.7	0.0	0.1	0.0	0.0	--	0.1	--	--
==== Montebello MSF =====											
MSF - Montebello Site Clearing	5/13/2023	11/13/2024	182.2	0.0	3.7	0.2	0.9	227.9	2.0	--	--
MSF - Montebello - Construction	11/14/2024	8/25/2026	185.4	0.1	10.0	0.5	2.5	--	5.2	2,365.0	--
==== Greenwood Station =====											
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	2.3	0.0	0.0	0.0	0.0	2.9	0.0	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	7.0	0.0	0.1	0.0	0.0	8.7	0.1	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	84.6	0.0	0.2	0.0	0.1	--	0.1	45.2	--
==== Greenwood Parking =====											
Parking	5/17/2025	6/4/2025	3.6	0.0	0.2	0.0	0.1	--	0.1	41.2	8.7
==== Guideway, Aerial - Greenwood / Montebello =====											
Guideway, Aerial - Track	11/2/2023	11/6/2024	120.4	0.0	2.2	0.1	0.6	--	1.1	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====											
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	40.3	0.0	0.6	0.0	0.2	55.7	0.2	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	15.4	0.0	1.1	0.1	0.3	--	0.5	--	--
==== Street Widening =====											
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	9.6	0.0	0.1	0.0	0.0	--	0.0	0.3	0.0
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	48.8	0.0	0.4	0.0	0.1	--	0.2	8.1	1.4
==== Guideway, At-Grade =====											
Guideway, At-Grade - Construction, 1 mile	11/7/2024	2/24/2025	40.3	0.0	0.6	0.0	0.2	55.7	0.2	--	--
Guideway, At-Grade - Track, 1 mile	11/14/2024	3/3/2025	15.4	0.0	1.1	0.1	0.3	--	0.5	--	--
Guideway, At-Grade - Construction, 1 mile	2/10/2025	5/28/2025	40.3	0.0	0.6	0.0	0.2	55.7	0.2	--	--
Guideway, At-Grade - Track, 1 mile	3/4/2025	6/19/2025	15.4	0.0	1.1	0.1	0.3	--	0.5	--	--
Guideway, At-Grade - Construction, 1 mile	5/14/2025	8/29/2025	40.3	0.0	0.6	0.0	0.2	55.7	0.2	--	--
Guideway, At-Grade - Track, 1 mile	6/20/2025	10/7/2025	15.4	0.0	1.1	0.1	0.3	--	0.5	--	--
Guideway, At-Grade - Construction, 1 mile	8/15/2025	12/2/2025	40.3	0.0	0.6	0.0	0.2	55.7	0.2	--	--

Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing
553.58	0.15	15.77	0.83	4.00	267.96	8.00	1,890.97	28.34

Alternative 1, Washington - Daily Localized Emissions for HRA

Construction Activity	Start Date	End Date	Total Particulate Emissions (pounds)					Total Organic Emissions (pounds)			
			Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing
Guideway, Underground - Trenching, Retaining Wall, Fill Construction === Commerce Station =====	10/19/2022	9/23/2023	97.8	0.0	2.1	0.1	0.7	6.7	0.8	--	--
Commerce Station - Site Clearing	8/3/2022	8/31/2022	9.7	0.0	0.2	0.0	0.0	12.2	0.1	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	10.7	0.0	0.2	0.0	0.1	13.3	0.1	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	38.5	0.0	0.7	0.1	0.3	5.7	0.2	--	--
Commerce Station - Construction === TPSS =====	3/4/2023	7/5/2024	163.4	0.0	0.7	0.0	0.2	--	0.3	--	--
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.9	0.0	0.0	0.0	0.0	1.2	0.0	--	--
Commerce TPSS === Whittier Station =====	7/10/2024	11/27/2024	15.9	0.0	0.1	0.0	0.0	--	0.1	--	--
Whittier Station - Site Clearing	9/3/2022	9/16/2022	4.6	0.0	0.1	0.0	0.0	5.8	0.0	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	3.7	0.0	0.1	0.0	0.0	4.6	0.0	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	38.5	0.0	0.7	0.1	0.3	5.7	0.2	--	--
Whittier Station - Construction === TPSS =====	3/18/2023	7/19/2024	163.4	0.0	0.7	0.0	0.2	--	0.3	--	--
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	0.9	0.0	0.0	0.0	0.0	1.2	0.0	--	--
Whittier TPSS	7/24/2024	12/11/2024	15.9	0.0	0.1	0.0	0.0	--	0.1	--	--

pounds:

Note: Coating and Paving for "Parking", "MSF", and "Stations" only.

Alternative 2. Atlantic to Citadel IOS - Daily Localized Emissions for HRA

Construction Activity	Start Date	End Date	Sheet	Exhaust Emissions	Coating Emissions	Paving Emissions	1/4 mile of trip included in emissions for HHRA calculations		
				(lb./day) PM10	(lb./day) ROG	(lb./day) ROG	Worker Trips/day	Vendor Trips/day	Hauling Trips/day
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	guideway_underground_transition	0.4	--	--	0.4	--	1.0
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Guideway, Aerial - Track	10/27/2022	11/1/2023	guideway_aerial	0.5	--	--	0.6	0.5	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
MSF - Commerce - Construction	5/22/2024	10/22/2025	msf	0.4	5.1	--	1.5	1.1	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	tpss	0.2	--	--	0.1	0.1	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	guideway_underground	0.1	--	--	0.3	0.1	1.4
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	guideway_underground	0.1	--	--	0.3	0.1	1.4
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Atlantic Station - Excavation	10/22/2022	4/21/2023	station_underground_cutcover	0.3	--	--	0.2	--	0.8
Atlantic Station - Construction	4/22/2023	8/23/2024	station_underground	0.5	--	--	0.1	0.1	--
==== Guideway, Sub-Grade - End =====									
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	guideway_underground_transition	0.4	--	--	0.4	--	1.0
==== Commerce Station =====									
Commerce Station - Site Clearing	8/3/2022	8/31/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce Station - Site Clearing	8/3/2022	9/2/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce Station - Excavation	9/3/2022	3/3/2023	station_underground_cutcover	0.3	--	--	0.2	--	0.8
Commerce Station - Construction	3/4/2023	7/5/2024	station_underground	0.5	--	--	0.1	0.1	--
==== TPSS =====									
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce TPSS	7/10/2024	11/27/2024	tpss	0.2	--	--	0.1	0.1	--
==== Whittier Station =====									
Whittier Station - Site Clearing	9/3/2022	9/16/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier Station - Site Clearing	9/3/2022	9/14/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier Station - Excavation	9/17/2022	3/17/2023	station_underground_cutcover	0.3	--	--	0.2	--	0.8
Whittier Station - Construction	3/18/2023	7/19/2024	station_underground	0.5	--	--	0.1	0.1	--
==== TPSS =====									
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier TPSS	7/24/2024	12/11/2024	tpss	0.2	--	--	0.1	0.1	--

Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gasing
552.05	0.15	15.77	0.83	4.00	271.63	8.00	1,890.97	0.00

Alternative 2. Atlantic to Citadel IOS - Daily Localized Emissions for HR/

Construction Activity	Start Date	End Date	Total Particulate Emissions (pounds)					Total Organic Emissions (pounds)			
			Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gasing
==== Construction Start =====											
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	8.8	0.0	0.2	0.0	0.0	11.0	0.1	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	53.5	0.0	1.1	0.1	0.4	3.7	0.4	--	--
==== Guideway, Aerial =====											
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	59.3	0.0	1.2	0.1	0.3	74.2	0.6	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	120.4	0.0	2.2	0.1	0.6	--	1.1	--	--
==== Commerce MSF =====											
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	146.1	0.0	3.0	0.1	0.7	182.7	1.6	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	148.2	0.1	8.0	0.4	2.0	--	4.1	1,891.0	--
==== TPSS =====											
Davie TPSS	1/28/2023	6/16/2023	15.7	0.0	0.1	0.0	0.0	--	0.1	--	--
==== Guideway, Sub-Grade - Start =====											
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	22.7	0.0	2.3	0.2	1.0	--	0.6	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	22.7	0.0	2.3	0.2	1.0	--	0.6	--	--
==== Atlantic Station =====											
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	9.7	0.0	0.2	0.0	0.0	12.2	0.1	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	11.6	0.0	0.2	0.0	0.1	14.5	0.1	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	38.5	0.0	0.7	0.1	0.3	5.7	0.2	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	163.4	0.0	0.7	0.0	0.2	--	0.3	--	--
==== Guideway, Sub-Grade - End =====											
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	10/19/2022	9/23/2023	97.8	0.0	2.1	0.1	0.7	6.7	0.8	--	--
==== Commerce Station =====											
Commerce Station - Site Clearing	8/3/2022	8/31/2022	9.7	0.0	0.2	0.0	0.0	12.2	0.1	--	--
Commerce Station - Site Clearing	8/3/2022	9/2/2022	10.7	0.0	0.2	0.0	0.1	13.3	0.1	--	--
Commerce Station - Excavation	9/3/2022	3/3/2023	38.5	0.0	0.7	0.1	0.3	5.7	0.2	--	--
Commerce Station - Construction	3/4/2023	7/5/2024	163.4	0.0	0.7	0.0	0.2	--	0.3	--	--
==== TPSS =====											
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	0.9	0.0	0.0	0.0	0.0	1.2	0.0	--	--
Commerce TPSS	7/10/2024	11/27/2024	15.9	0.0	0.1	0.0	0.0	--	0.1	--	--
==== Whittier Station =====											
Whittier Station - Site Clearing	9/3/2022	9/16/2022	4.6	0.0	0.1	0.0	0.0	5.8	0.0	--	--
Whittier Station - Site Clearing	9/3/2022	9/14/2022	3.7	0.0	0.1	0.0	0.0	4.6	0.0	--	--
Whittier Station - Excavation	9/17/2022	3/17/2023	38.5	0.0	0.7	0.1	0.3	5.7	0.2	--	--
Whittier Station - Construction	3/18/2023	7/19/2024	163.4	0.0	0.7	0.0	0.2	--	0.3	--	--
==== TPSS =====											
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	0.9	0.0	0.0	0.0	0.0	1.2	0.0	--	--
Whittier TPSS	7/24/2024	12/11/2024	15.9	0.0	0.1	0.0	0.0	--	0.1	--	--

pounds:

Note: Coating and Paving for "Parking", "MSF", and "Stations" only.

Alternative 3. Atlantic to Greenwood IOS - Daily Localized Emissions for HRA

Construction Activity	Start Date	End Date	Sheet	Exhaust Emissions (lb./day) PM10	Manually input		1/4 mile of trip included in emissions for HHRA calculations		
					Coating Emissions (lb./day) ROG	Paving Emissions (lb./day) ROG	Worker Trips/day	Vendor Trips/day	Hauling Trips/day
==== Construction Start =====									
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	guideway_underground_transition	0.4	--	--	0.4	--	1.0
==== Guideway, Aerial =====									
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Guideway, Aerial - Track	10/27/2022	11/1/2023	guideway_aerial	0.5	--	--	0.6	0.5	--
==== Commerce MSF =====									
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
MSF - Commerce - Construction	5/22/2024	10/22/2025	msf	0.4	5.1	--	1.5	1.1	--
==== TPSS =====									
Davie TPSS	1/28/2023	6/16/2023	tpss	0.2	--	--	0.1	0.1	--
==== Montebello MSF =====									
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
MSF - Commerce - Construction	11/14/2024	8/25/2026	msf	0.4	5.1	--	1.5	1.1	--
==== Greenwood Station =====									
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	station_aerial	0.3	0.1733	--	0.1	0.0	--
==== Greenwood Parking =====									
Parking	5/17/2025	6/4/2025	parking	0.3	3.2	0.7	1.1	0.9	--
==== Guideway, Aerial - Greenwood / Montebello =====									
Guideway, Aerial - Track	11/2/2023	11/6/2024	guideway_aerial	0.5	--	--	0.6	0.5	--
==== Guideway, At-Grade - Greenwood / Montebello =====									
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	guideway_grade_site	1.8	--	--	0.3	--	1.0
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	guideway_grade_rail	0.2	--	--	0.9	0.8	--
==== Street Widening =====									
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	roadways	0.5	0.0	0.0	0.3	0.0	--
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	roadways	0.5	0.1	0.0	0.3	0.0	--
==== Guideway, Sub-Grade - Start =====									
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	guideway_underground	0.1	--	--	0.3	0.1	1.4
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	guideway_underground	0.1	--	--	0.3	0.1	1.4
==== Atlantic Station =====									
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Atlantic Station - Excavation	10/22/2022	4/21/2023	station_underground_cut cover	0.3	--	--	0.2	--	0.8
Atlantic Station - Construction	4/22/2023	8/23/2024	station_underground	0.5	--	--	0.1	0.1	--
==== Guideway, Sub-Grade - End =====									

pounds:

Alternative 3. Atlantic to Greenwood IOS - Daily Localized Emissions for HRA

Note: Coating and Paving for "Parking", "MSF", and "Stations" only.

Construction Activity	Start Date	End Date	Sheet	Exhaust Emissions (lb./day) PM10	Manually input	Manually input	1/4 mile of trip included in emissions for HHRA calculations		
					Coating Emissions (lb./day) ROG	Paving Emissions (lb./day) ROG	Worker Trips/day	Vendor Trips/day	Hauling Trips/day
Guideway, Underground - Trenching, Retaining Wall, Fill Construction ==== Commerce Station =====	10/19/2022	9/23/2023	guideway_underground_transition	0.4	--	--	0.4	--	1.0
Commerce Station - Site Clearing	8/3/2022	8/31/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce Station - Site Clearing	8/3/2022	9/2/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce Station - Excavation	9/3/2022	3/3/2023	station_underground_cut_cover	0.3	--	--	0.2	--	0.8
Commerce Station - Construction ==== TPSS =====	3/4/2023	7/5/2024	station_underground	0.5	--	--	0.1	0.1	--
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Commerce TPSS ==== Whittier Station =====	7/10/2024	11/27/2024	tpss	0.2	--	--	0.1	0.1	--
Whittier Station - Site Clearing	9/3/2022	9/16/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier Station - Site Clearing	9/3/2022	9/14/2022	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier Station - Excavation	9/17/2022	3/17/2023	station_underground_cut_cover	0.3	--	--	0.2	--	0.8
Whittier Station - Construction ==== TPSS =====	3/18/2023	7/19/2024	station_underground	0.5	--	--	0.1	0.1	--
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	demo_util_siteprep	1.1	--	--	0.7	--	0.3
Whittier TPSS	7/24/2024	12/11/2024	tpss	0.2	--	--	0.1	0.1	--

Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing
552.05	0.15	15.77	0.83	4.00	271.63	8.00	1,890.97	10.15

Alternative 3. Atlantic to Greenwood IOS - Daily Localized Emissions for HRA

Construction Activity	Start Date	End Date	Sheet	Total Particulate Emissions (pounds)						Total Organic Emissions (pounds)		
				Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing
==== Construction Start =====												
Saybrook Ave Site Clearing - Demolition	1/1/2022	1/27/2022	demo_util_siteprep	8.8	0.0	0.2	0.0	0.0	11.0	0.1	--	--
Guideway, Underground - Trenching, Retaining Wall, Fill Construction	1/28/2022	8/2/2022	guideway_underground_transition	53.5	0.0	1.1	0.1	0.4	3.7	0.4	--	--
==== Guideway, Aerial =====												
Gayhart, Davie, and Garfield Site Clearing	8/3/2022	1/27/2023	demo_util_siteprep	59.3	0.0	1.2	0.1	0.3	74.2	0.6	--	--
Guideway, Aerial - Track	10/27/2022	11/1/2023	guideway_aerial	120.4	0.0	2.2	0.1	0.6	--	1.1	--	--
==== Commerce MSF =====												
MSF - Commerce Site Clearing	3/8/2023	5/21/2024	demo_util_siteprep	146.1	0.0	3.0	0.1	0.7	182.7	1.6	--	--
MSF - Commerce - Construction	5/22/2024	10/22/2025	msf	148.2	0.1	8.0	0.4	2.0	--	4.1	1,891.0	--
==== TPSS =====												
Davie TPSS	1/28/2023	6/16/2023	tpss	15.7	0.0	0.1	0.0	0.0	--	0.1	--	--
==== Montebello MSF =====												
MSF - Commerce Site Clearing	5/13/2023	11/13/2024	demo_util_siteprep	182.2	0.0	3.7	0.2	0.9	227.9	2.0	--	--
MSF - Commerce - Construction	11/14/2024	8/25/2026	msf	185.4	0.1	10.0	0.5	2.5	--	5.2	2,365.0	--
==== Greenwood Station =====												
Greenwood Station - Site Clearing	4/26/2024	5/2/2024	demo_util_siteprep	2.3	0.0	0.0	0.0	0.0	2.9	0.0	--	--
Greenwood Station - Site Clearing	4/26/2024	5/16/2024	demo_util_siteprep	7.0	0.0	0.1	0.0	0.0	8.7	0.1	--	--
Greenwood Station - Station Construction (Aerial)	5/17/2024	5/16/2025	station_aerial	84.6	0.0	0.2	0.0	0.1	--	0.1	45.2	--
==== Greenwood Parking =====												
Parking	5/17/2025	6/4/2025	parking	3.6	0.0	0.2	0.0	0.1	--	0.1	41.2	8.7
==== Guideway, Aerial - Greenwood / Montebello =====												
Guideway, Aerial - Track	11/2/2023	11/6/2024	guideway_aerial	120.4	0.0	2.2	0.1	0.6	--	1.1	--	--
==== Guideway, At-Grade - Greenwood / Montebello =====												
Guideway, At-Grade - Construction, 1 mile	11/2/2023	2/19/2024	guideway_grade_site	40.3	0.0	0.6	0.0	0.2	55.7	0.2	--	--
Guideway, At-Grade - Track, 1 mile	2/20/2024	6/6/2024	guideway_grade_rail	15.4	0.0	1.1	0.1	0.3	--	0.5	--	--
==== Street Widening =====												
Street Widening - Washington Greenwood	5/17/2024	6/12/2024	roadways	9.6	0.0	0.1	0.0	0.0	--	0.0	0.3	0.0
Street Widening - Washington S Montebello	6/13/2024	10/25/2024	roadways	48.8	0.0	0.4	0.0	0.1	--	0.2	8.1	1.4
==== Guideway, Sub-Grade - Start =====												
Guideway, Sub-Grade - Track	10/1/2022	10/23/2023	guideway_underground	22.7	0.0	2.3	0.2	1.0	--	0.6	--	--
Guideway, Sub-Grade - Track	1/29/2023	2/19/2024	guideway_underground	22.7	0.0	2.3	0.2	1.0	--	0.6	--	--
==== Atlantic Station =====												
Atlantic Station - Site Clearing	9/17/2022	10/17/2022	demo_util_siteprep	9.7	0.0	0.2	0.0	0.0	12.2	0.1	--	--
Atlantic Station - Site Clearing	9/17/2022	10/21/2022	demo_util_siteprep	11.6	0.0	0.2	0.0	0.1	14.5	0.1	--	--
Atlantic Station - Excavation	10/22/2022	4/21/2023	station_underground_cutcover	38.5	0.0	0.7	0.1	0.3	5.7	0.2	--	--
Atlantic Station - Construction	4/22/2023	8/23/2024	station_underground	163.4	0.0	0.7	0.0	0.2	--	0.3	--	--
==== Guideway, Sub-Grade - End =====												

Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing
552.05	0.15	15.77	0.83	4.00	271.63	8.00	1,890.97	10.15

Alternative 3. Atlantic to Greenwood IOS - Daily Localized Emissions for HRA

Construction Activity	Start Date	End Date	Sheet	Total Particulate Emissions (pounds)						Total Organic Emissions (pounds)			
				Diesel Vehicle Exhaust	Gasoline Vehicle Exhaust	Paved Road Dust	Tire Wear	Brake Wear	Construction Dust	Gasoline Vehicle Exhaust	Architectural Coating	Paving Off-Gassing	
Guideway, Underground - Trenching, Retaining Wall, Fill Construction ==== Commerce Station =====	10/19/2022	9/23/2023	guideway_underground_transition	97.8	0.0	2.1	0.1	0.7	6.7	0.8	--	--	
Commerce Station - Site Clearing	8/3/2022	8/31/2022	demo_util_siteprep	9.7	0.0	0.2	0.0	0.0	12.2	0.1	--	--	
Commerce Station - Site Clearing	8/3/2022	9/2/2022	demo_util_siteprep	10.7	0.0	0.2	0.0	0.1	13.3	0.1	--	--	
Commerce Station - Excavation	9/3/2022	3/3/2023	station_underground_cut_cover	38.5	0.0	0.7	0.1	0.3	5.7	0.2	--	--	
Commerce Station - Construction ==== TPSS =====	3/4/2023	7/5/2024	station_underground	163.4	0.0	0.7	0.0	0.2	--	0.3	--	--	
Commerce TPSS - Site Clearing	7/6/2024	7/9/2024	demo_util_siteprep	0.9	0.0	0.0	0.0	0.0	1.2	0.0	--	--	
Commerce TPSS ==== Whittier Station =====	7/10/2024	11/27/2024	tpss	15.9	0.0	0.1	0.0	0.0	--	0.1	--	--	
Whittier Station - Site Clearing	9/3/2022	9/16/2022	demo_util_siteprep	4.6	0.0	0.1	0.0	0.0	5.8	0.0	--	--	
Whittier Station - Site Clearing	9/3/2022	9/14/2022	demo_util_siteprep	3.7	0.0	0.1	0.0	0.0	4.6	0.0	--	--	
Whittier Station - Excavation	9/17/2022	3/17/2023	station_underground_cut_cover	38.5	0.0	0.7	0.1	0.3	5.7	0.2	--	--	
Whittier Station - Construction ==== TPSS =====	3/18/2023	7/19/2024	station_underground	163.4	0.0	0.7	0.0	0.2	--	0.3	--	--	
Whittier TPSS - Site Clearing	7/20/2024	7/23/2024	demo_util_siteprep	0.9	0.0	0.0	0.0	0.0	1.2	0.0	--	--	
Whittier TPSS	7/24/2024	12/11/2024	tpss	15.9	0.0	0.1	0.0	0.0	--	0.1	--	--	

EMISSIONS ARE ENTERED ON THE EMISSIONS WORKSHEET OR ON ONE OF EQUIPMENT WORKSHEETS
INPUT PARAMETERS ENTERED ON THE EMISSIONS SHEET ARE USED FOR TIERS 1 AND TIER 2 ANALYSES

TIER 2 SCREENING RISK ASSESSMENT REPORT
(Procedure Version 8.1 & Package N, September 1, 2017) - Risk Tool V1.103

A/N: _____

Fac: ESP2 A1. Construction

Application deemed complete date: 4/8/2022

1. Stack Data

Equipment Type Other

Combustion Eff 0.0
With T-BACT

Operation Schedule 8 hrs/day
5 days/week
52 weeks/year

Stack Height 14 ft
Building Area 30000 ft²

Distance to Residential 402.336 m
Distance to Commercial 402.336 m
Meteorological Station Pico Rivera

2. Tier 2 Data

Dispersion Factors tables	Volume Source
For Chronic X/Q	Table 7
For Acute X/Q max	Table 7.7

Dilution Factors

Receptor	X/Q (µg/m ³)(tons/yr)	X/Qmax (µg/m ³)(lbs/hr)
Residential	0.09	14.43
Commercial - Worker	0.09	14.43

Intake and Adjustment Factors

	Residential	Worker
Year of Exposure	2	
Combined Exposure Factor (CEF) - Table 4	311.35	4.47
Worker Adjustment Factor (WAF) - Table 5	1	4.20

A/N: _____

Application deemed complete date: 04/08/22

3. Rule 1401 Compound Data

Compound	R1 - Uncontrolled (lbs/hr)	R2 - Controlled (lbs/hr)	CP (mg/kg-day) ⁻¹	MP MICR Resident	MP MICR Worker	MP Chronic Resident	MP Chronic Worker	REL Chronic (µg/m ³)	REL 8-hr Chronic (µg/m ³)	REL Acute (µg/m ³)	MWAF
Particulate Emissions from Diesel-Fueled Engines	5.56E-02	5.56E-02	1.10E+00	1.00	1.00	1.00	1.00	5.00E+00			1
Ammonia	8.85E-06	8.85E-06		1.00	1.00	1.00	1.00	2.00E+02		3.20E+03	1
Arsenic and Compounds (Inorganic)	6.71E-07	6.71E-07	1.20E+01	12.33	4.33	88.03	28.37	1.50E-02	1.50E-02	2.00E-01	1
Cadmium and Compounds	1.05E-06	1.05E-06	1.50E+01	1.00	1.00	1.98	1.20	2.00E-02			1
Chlorine	1.18E-04	1.18E-04		1.00	1.00	1.00	1.00	2.00E-01		2.10E+02	1
Copper and Compounds	8.62E-06	8.62E-06		1.00	1.00	1.00	1.00			1.00E+02	1
Lead and Compounds (Inorganic)	1.91E-05	1.91E-05	4.20E-02	15.22	5.63	1.00	1.00				1
Manganese and Compounds	3.29E-05	3.29E-05		1.00	1.00	1.00	1.00	9.00E-02	1.70E-01		1
Mercury and Compounds (Inorganic)	5.53E-07	5.53E-07		1.00	1.00	3.86	2.11	3.00E-02	6.00E-02	6.00E-01	1
Nickel and Compounds	2.34E-06	2.34E-06	9.10E-01	1.00	1.00	1.00	1.00	1.40E-02	6.00E-02	2.00E-01	1
Selenium and Compounds	9.37E-08	9.37E-08		1.00	1.00	195.58	23.71	2.00E+01			1
Vanadium (Fume or Dust)	9.29E-06	9.29E-06		1.00	1.00	1.00	1.00			3.00E+01	1
1,3-Butadiene	1.95E-06	1.95E-06	6.00E-01	1.00	1.00	1.00	1.00	2.00E+00	9.00E+00	6.60E+02	1
Acetaldehyde	7.24E-06	7.24E-06	1.00E-02	1.00	1.00	1.00	1.00	1.40E+02	3.00E+02	4.70E+02	1
Acrolein	1.14E-08	1.14E-08		1.00	1.00	1.00	1.00	3.50E-01	7.00E-01	2.50E+00	1
Benzene	3.13E-05	3.13E-05	1.00E-01	1.00	1.00	1.00	1.00	3.00E+00	3.00E+00	2.70E+01	1
Ethyl Benzene	8.25E-03	8.25E-03	8.70E-03	1.00	1.00	1.00	1.00	2.00E+03			1
Formaldehyde	1.73E-05	1.73E-05	2.10E-02	1.00	1.00	1.00	1.00	9.00E+00	9.00E+00	5.50E+01	1
Methanol	7.41E-03	7.41E-03		1.00	1.00	1.00	1.00	4.00E+03		2.80E+04	1
Methyl Ethyl Ketone (2-Butanone)	1.06E-02	1.06E-02		1.00	1.00	1.00	1.00			1.30E+04	1
Methyl Tertiary-Butyl Ether	3.76E-06	3.76E-06	1.80E-03	1.00	1.00	1.00	1.00	8.00E+03			1
m-Xylene	1.82E-05	1.82E-05		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Naphthalene	2.96E-06	2.96E-06	1.20E-01	1.00	1.00	1.00	1.00	9.00E+00			1
n-Hexane	3.93E-02	3.93E-02		1.00	1.00	1.00	1.00	7.00E+03			1
o-Xylene	1.19E-04	1.19E-04		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Propylene (Propene)	1.77E-05	1.77E-05		1.00	1.00	1.00	1.00	3.00E+03			1
p-Xylene	9.61E-06	9.61E-06		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Styrene	1.76E-06	1.76E-06		1.00	1.00	1.00	1.00	9.00E+02		2.10E+04	1
Toluene	1.01E-02	1.01E-02		1.00	1.00	1.00	1.00	3.00E+02		3.70E+04	1
Isopropyl Alcohol (Isopropanol)	3.12E-02	3.12E-02		1.00	1.00	1.00	1.00	7.00E+03		3.20E+03	1
Ethylene Glycol	1.14E-03	1.14E-03		1.00	1.00	1.00	1.00	4.00E+02			1
n,n-Dimethyl Formamide	9.50E-04	9.50E-04		1.00	1.00	1.00	1.00	8.00E+01			1
Ethylene Glycol Ethyl Ether Acetate - EGEE	2.47E-03	2.47E-03		1.00	1.00	1.00	1.00	3.00E+02		1.40E+02	1
Xylenes (Mixed Isomers)	5.18E-03	5.18E-03		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1

A/N: _____

Application deemed complete date: 04/08/22

4. Emission Calculations

Compound	R1 (lbs/hr)	R2 (lbs/hr)	R1 (lbs/day)	R2 (lbs/day)	R2 (lbs/yr)	R2 (tons/yr)
Particulate Emissions from Diesel-Fueled Engines	5.56E-02	5.56E-02	4.45E-01	4.45E-01	1.16E+02	5.79E-02
Ammonia	8.85E-06	8.85E-06	7.08E-05	7.08E-05	1.84E-02	9.21E-06
Arsenic and Compounds (Inorganic)	6.71E-07	6.71E-07	5.37E-06	5.37E-06	1.40E-03	6.98E-07
Cadmium and Compounds	1.05E-06	1.05E-06	8.44E-06	8.44E-06	2.19E-03	1.10E-06
Chlorine	1.18E-04	1.18E-04	9.41E-04	9.41E-04	2.45E-01	1.22E-04
Copper and Compounds	8.62E-06	8.62E-06	6.89E-05	6.89E-05	1.79E-02	8.96E-06
Lead and Compounds (Inorganic)	1.91E-05	1.91E-05	1.53E-04	1.53E-04	3.97E-02	1.99E-05
Manganese and Compounds	3.29E-05	3.29E-05	2.63E-04	2.63E-04	6.85E-02	3.42E-05
Mercury and Compounds (Inorganic)	5.53E-07	5.53E-07	4.42E-06	4.42E-06	1.15E-03	5.75E-07
Nickel and Compounds	2.34E-06	2.34E-06	1.87E-05	1.87E-05	4.87E-03	2.44E-06
Selenium and Compounds	9.37E-08	9.37E-08	7.49E-07	7.49E-07	1.95E-04	9.74E-08
Vanadium (Fume or Dust)	9.29E-06	9.29E-06	7.43E-05	7.43E-05	1.93E-02	9.66E-06
1,3-Butadiene	1.95E-06	1.95E-06	1.56E-05	1.56E-05	4.06E-03	2.03E-06
Acetaldehyde	7.24E-06	7.24E-06	5.79E-05	5.79E-05	1.51E-02	7.53E-06
Acrolein	1.14E-08	1.14E-08	9.12E-08	9.12E-08	2.37E-05	1.19E-08
Benzene	3.13E-05	3.13E-05	2.50E-04	2.50E-04	6.51E-02	3.25E-05
Ethyl Benzene	8.25E-03	8.25E-03	6.60E-02	6.60E-02	1.72E+01	8.58E-03
Formaldehyde	1.73E-05	1.73E-05	1.38E-04	1.38E-04	3.59E-02	1.80E-05
Methanol	7.41E-03	7.41E-03	5.93E-02	5.93E-02	1.54E+01	7.71E-03
Methyl Ethyl Ketone (2-Butanone)	1.06E-02	1.06E-02	8.51E-02	8.51E-02	2.21E+01	1.11E-02
Methyl Tertiary-Butyl Ether	3.76E-06	3.76E-06	3.01E-05	3.01E-05	7.83E-03	3.91E-06
m-Xylene	1.82E-05	1.82E-05	1.46E-04	1.46E-04	3.79E-02	1.90E-05
Naphthalene	2.96E-06	2.96E-06	2.37E-05	2.37E-05	6.16E-03	3.08E-06
n-Hexane	3.93E-02	3.93E-02	3.15E-01	3.15E-01	8.18E+01	4.09E-02
o-Xylene	1.19E-04	1.19E-04	9.53E-04	9.53E-04	2.48E-01	1.24E-04
Propylene (Propene)	1.77E-05	1.77E-05	1.41E-04	1.41E-04	3.68E-02	1.84E-05
p-Xylene	9.61E-06	9.61E-06	7.69E-05	7.69E-05	2.00E-02	9.99E-06
Styrene	1.76E-06	1.76E-06	1.41E-05	1.41E-05	3.66E-03	1.83E-06
Toluene	1.01E-02	1.01E-02	8.08E-02	8.08E-02	2.10E+01	1.05E-02
Isopropyl Alcohol (Isopropanol)	3.12E-02	3.12E-02	2.49E-01	2.49E-01	6.48E+01	3.24E-02
Ethylene Glycol	1.14E-03	1.14E-03	9.12E-03	9.12E-03	2.37E+00	1.19E-03
n,n-Dimethyl Formamide	9.50E-04	9.50E-04	7.60E-03	7.60E-03	1.98E+00	9.88E-04
Ethylene Glycol Ethyl Ether Acetate – EGEE	2.47E-03	2.47E-03	1.98E-02	1.98E-02	5.14E+00	2.57E-03
Xylenes (Mixed Isomers)	5.18E-03	5.18E-03	4.15E-02	4.15E-02	1.08E+01	5.39E-03
Total	1.73E-01	1.73E-01	1.38E+00	1.38E+00	3.59E+02	1.80E-01

TIER 2 RESULTS

A/N: _____

Application deemed complete date: 04/08/22

5a. MICR

MICR Resident = CP (mg/(kg-day))⁻¹ * Q (ton/yr) * (X/Q) Resident * CEF Resident * MP Resident * 1e-6 * MWF

MICR Worker = CP (mg/(kg-day))⁻¹ * Q (ton/yr) * (X/Q) Worker * CEF Worker * MP Worker * WAF Worker * 1e-6 * MWF

Compound	Residential	Commercial
Particulate Emissions from Diesel-Fueled Engines	1.76E-06	1.06E-07
Ammonia		
Arsenic and Compounds (Inorganic)	2.86E-09	6.06E-11
Cadmium and Compounds	4.56E-10	2.75E-11
Chlorine		
Copper and Compounds		
Lead and Compounds (Inorganic)	3.52E-10	7.85E-12
Manganese and Compounds		
Mercury and Compounds (Inorganic)		
Nickel and Compounds	6.15E-11	3.71E-12
Selenium and Compounds		
Vanadium (Fume or Dust)		
1,3-Butadiene	3.38E-11	2.04E-12
Acetaldehyde	2.09E-12	1.26E-13
Acrolein		
Benzene	9.02E-11	5.44E-12
Ethyl Benzene	2.07E-09	1.25E-10
Formaldehyde	1.05E-11	6.31E-13
Methanol		
Methyl Ethyl Ketone (2-Butanone)		
Methyl Tertiary-Butyl Ether	1.95E-13	1.18E-14
m-Xylene		
Naphthalene	1.03E-11	6.18E-13
n-Hexane		
o-Xylene		
Propylene (Propene)		
p-Xylene		
Styrene		
Toluene		
Isopropyl Alcohol (Isopropanol)		
Ethylene Glycol		
n,n-Dimethyl Formamide		
Ethylene Glycol Ethyl Ether Acetate – EGEE		
Xylenes (Mixed Isomers)		
Total	1.77E-06	1.07E-07
	PASS	PASS

5b. Is Cancer Burden Calculation Needed (MICR > 1E-6)?

YES

New X/Q at which MICR_{70yr} is one-in-a-million [(µg/m³)/(tons/yr)]: 2.04E-02

New Distance, interpolated from X/Q table using New X/Q (meter): 869.68

Zone Impact Area (km²): 2.38E+00

Zone of Impact Population (7000 person/km²): 1.66E+04

Cancer Burden: 7.25E-02

Cancer Burden is less than or equal to 0.5

PASS

6. Hazard Index Summary

A/N: _____

Application deemed complete date: 04/08/22

HIA = [Q(lb/hr) * (X/Q)max * MWF] / Acute REL
 HIC = [Q(ton/yr) * (X/Q) * MP * MWF] / Chronic REL
 HIC 8-hr= [Q(ton/yr) * (X/Q) * WAF * MWF] / 8-hr Chronic REL

Target Organs	Acute	Chronic	8-hr Chronic	Acute Pass/Fail	Chronic Pass/Fail	8-hr Chronic Pass/Fail
Alimentary system (liver) - AL		1.57E-06		Pass	Pass	Pass
Bones and teeth - BN				Pass	Pass	Pass
Cardiovascular system - CV	4.84E-05	3.65E-04	1.74E-05	Pass	Pass	Pass
Developmental - DEV	3.37E-04	3.92E-04	2.11E-05	Pass	Pass	Pass
Endocrine system - END		3.82E-07		Pass	Pass	Pass
Eye	1.77E-04	7.05E-07		Pass	Pass	Pass
Hematopoietic system - HEM	1.67E-05	1.72E-05	4.06E-06	Pass	Pass	Pass
Immune system - IMM	1.86E-04		1.52E-05	Pass	Pass	Pass
Kidney - KID		1.73E-05	3.58E-06	Pass	Pass	Pass
Nervous system - NS	3.28E-04	4.10E-04	9.63E-05	Pass	Pass	Pass
Reproductive system - REP	3.37E-04	3.92E-04	2.10E-05	Pass	Pass	Pass
Respiratory system - RESP	1.74E-04	1.48E-03	3.34E-05	Pass	Pass	Pass
Skin		3.65E-04	1.74E-05	Pass	Pass	Pass

A/N: _____

Application deemed complete date: 04/08/22

6a. Hazard Index Acute - Resident

HIA = [Q(lb/hr) * (X/Q)max resident * MWAF] / Acute REL

Compound	HIA - Residential									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines				3.99E-08					3.99E-08	
Ammonia										
Arsenic and Compounds (Inorganic)		4.84E-05	4.84E-05				4.84E-05	4.84E-05		
Cadmium and Compounds										
Chlorine				8.08E-06					8.08E-06	
Copper and Compounds									1.24E-06	
Lead and Compounds (Inorganic)										
Manganese and Compounds										
Mercury and Compounds (Inorganic)			1.33E-05				1.33E-05	1.33E-05		
Nickel and Compounds						1.69E-04				
Selenium and Compounds										
Vanadium (Fume or Dust)				4.47E-06					4.47E-06	
1,3-Butadiene			4.27E-08					4.27E-08		
Acetaldehyde				2.22E-07					2.22E-07	
Acrolein				6.58E-08					6.58E-08	
Benzene			1.67E-05		1.67E-05	1.67E-05		1.67E-05		
Ethyl Benzene										
Formaldehyde				4.53E-06						
Methanol							3.82E-06			
Methyl Ethyl Ketone (2-Butanone)				1.18E-05					1.18E-05	
Methyl Tertiary-Butyl Ether										
m-Xylene				1.20E-08			1.20E-08		1.20E-08	
Naphthalene										
n-Hexane										
o-Xylene				7.81E-08			7.81E-08		7.81E-08	
Propylene (Propene)										
p-Xylene				6.30E-09			6.30E-09		6.30E-09	
Styrene			1.21E-09	1.21E-09				1.21E-09	1.21E-09	
Toluene			3.94E-06	3.94E-06			3.94E-06	3.94E-06	3.94E-06	
Isopropyl Alcohol (Isopropanol)				1.41E-04					1.41E-04	
Ethylene Glycol										
n,n-Dimethyl Formamide										
Ethylene Glycol Ethyl Ether Acetate – EGEE			2.55E-04				2.55E-04	2.55E-04		
Xylenes (Mixed Isomers)				3.40E-06			3.40E-06		3.40E-06	
Total		4.84E-05	3.37E-04	1.77E-04	1.67E-05	1.86E-04	3.28E-04	3.37E-04	1.74E-04	

6a. Hazard Index Acute - Worker

A/N: _____

Application deemed complete date: 04/08/22

HIA = [Q(lb/hr) * (X/Q)max Worker * MWF] / Acute REL

Compound	HIA - Commercial									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines				3.99E-08					3.99E-08	
Ammonia										
Arsenic and Compounds (Inorganic)		4.84E-05	4.84E-05				4.84E-05	4.84E-05		
Cadmium and Compounds										
Chlorine				8.08E-06					8.08E-06	
Copper and Compounds									1.24E-06	
Lead and Compounds (Inorganic)										
Manganese and Compounds										
Mercury and Compounds (Inorganic)			1.33E-05				1.33E-05	1.33E-05		
Nickel and Compounds						1.69E-04				
Selenium and Compounds										
Vanadium (Fume or Dust)				4.47E-06					4.47E-06	
1,3-Butadiene			4.27E-08					4.27E-08		
Acetaldehyde				2.22E-07					2.22E-07	
Acrolein				6.58E-08					6.58E-08	
Benzene			1.67E-05		1.67E-05	1.67E-05		1.67E-05		
Ethyl Benzene										
Formaldehyde				4.53E-06						
Methanol							3.82E-06			
Methyl Ethyl Ketone (2-Butanone)				1.18E-05					1.18E-05	
Methyl Tertiary-Butyl Ether										
m-Xylene				1.20E-08			1.20E-08		1.20E-08	
Naphthalene										
n-Hexane										
o-Xylene				7.81E-08			7.81E-08		7.81E-08	
Propylene (Propene)										
p-Xylene				6.30E-09			6.30E-09		6.30E-09	
Styrene			1.21E-09	1.21E-09				1.21E-09	1.21E-09	
Toluene			3.94E-06	3.94E-06			3.94E-06	3.94E-06	3.94E-06	
Isopropyl Alcohol (Isopropanol)				1.41E-04					1.41E-04	
Ethylene Glycol										
n,n-Dimethyl Formamide										
Ethylene Glycol Ethyl Ether Acetate - EGEE			2.55E-04				2.55E-04	2.55E-04		
Xylenes (Mixed Isomers)				3.40E-06			3.40E-06		3.40E-06	
Total		4.84E-05	3.37E-04	1.77E-04	1.67E-05	1.86E-04	3.28E-04	3.37E-04	1.74E-04	

A/N: _____

Application deemed complete date: 04/08/22

6b. Hazard Index Chronic - Resident

HIC = [Q(ton/yr) * (X/Q) Resident * MP Chronic Resident * MWAFF] / Chronic REL

Compound	HIC - Residential												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines												1.03E-03	
Ammonia												4.10E-09	
Arsenic and Compounds (Inorganic)			3.65E-04	3.65E-04						3.65E-04	3.65E-04	3.65E-04	3.65E-04
Cadmium and Compounds									9.65E-06			9.65E-06	
Chlorine												5.45E-05	
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										3.39E-05			
Mercury and Compounds (Inorganic)				6.59E-06					6.59E-06	6.59E-06	6.59E-06		
Nickel and Compounds				1.55E-05			1.55E-05				1.55E-05	1.55E-05	
Selenium and Compounds	8.48E-08		8.48E-08							8.48E-08			
Vanadium (Fume or Dust)													
1,3-Butadiene				9.04E-08							9.04E-08		
Acetaldehyde												4.79E-09	
Acrolein												3.02E-09	
Benzene							9.66E-07						
Ethyl Benzene	3.82E-07			3.82E-07	3.82E-07				3.82E-07		3.82E-07		
Formaldehyde												1.78E-07	
Methanol				1.72E-07							1.72E-07		
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether	4.36E-11					4.36E-11			4.36E-11				
m-Xylene						2.41E-09				2.41E-09		2.41E-09	
Naphthalene												3.05E-08	
n-Hexane										5.21E-07			
o-Xylene						1.58E-08				1.58E-08		1.58E-08	
Propylene (Propene)												5.46E-10	
p-Xylene						1.27E-09				1.27E-09		1.27E-09	
Styrene										1.81E-10			
Toluene				3.12E-06						3.12E-06	3.12E-06	3.12E-06	
Isopropyl Alcohol (Isopropanol)				4.12E-07					4.12E-07		4.12E-07		
Ethylene Glycol				2.64E-07					2.64E-07		2.64E-07	2.64E-07	
n,n-Dimethyl Formamide	1.10E-06											1.10E-06	
Ethylene Glycol Ethyl Ether Acetate – EGEE				7.63E-07			7.63E-07				7.63E-07		
Xylenes (Mixed Isomers)						6.86E-07				6.86E-07		6.86E-07	
Total	1.57E-06		3.65E-04	3.92E-04	3.82E-07	7.05E-07	1.72E-05		1.73E-05	4.10E-04	3.92E-04	1.48E-03	3.65E-04

A/N: _____

Application deemed complete date: 04/08/22

6b. Hazard Index Chronic - Worker

HIC = [Q(ton/yr) * (X/Q) * MP Chronic Worker * MWAF] / Chronic REL

Compound	HIC - Commercial												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines												1.03E-03	
Ammonia												4.10E-09	
Arsenic and Compounds (Inorganic)			1.18E-04	1.18E-04						1.18E-04	1.18E-04	1.18E-04	1.18E-04
Cadmium and Compounds									5.87E-06			5.87E-06	
Chlorine												5.45E-05	
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										3.39E-05			
Mercury and Compounds (Inorganic)				3.60E-06					3.60E-06	3.60E-06	3.60E-06		
Nickel and Compounds				1.55E-05			1.55E-05				1.55E-05	1.55E-05	
Selenium and Compounds	1.03E-08		1.03E-08							1.03E-08			
Vanadium (Fume or Dust)													
1,3-Butadiene				9.04E-08							9.04E-08		
Acetaldehyde												4.79E-09	
Acrolein												3.02E-09	
Benzene							9.66E-07						
Ethyl Benzene	3.82E-07			3.82E-07	3.82E-07				3.82E-07		3.82E-07		
Formaldehyde												1.78E-07	
Methanol				1.72E-07							1.72E-07		
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether	4.36E-11					4.36E-11			4.36E-11				
m-Xylene						2.41E-09				2.41E-09		2.41E-09	
Naphthalene												3.05E-08	
n-Hexane										5.21E-07			
o-Xylene						1.58E-08				1.58E-08		1.58E-08	
Propylene (Propene)												5.46E-10	
p-Xylene						1.27E-09				1.27E-09		1.27E-09	
Styrene										1.81E-10			
Toluene				3.12E-06						3.12E-06	3.12E-06	3.12E-06	
Isopropyl Alcohol (Isopropanol)				4.12E-07					4.12E-07		4.12E-07		
Ethylene Glycol				2.64E-07					2.64E-07		2.64E-07	2.64E-07	
n,n-Dimethyl Formamide	1.10E-06											1.10E-06	
Ethylene Glycol Ethyl Ether Acetate – EGEE				7.63E-07			7.63E-07				7.63E-07		
Xylenes (Mixed Isomers)						6.86E-07				6.86E-07		6.86E-07	
Total	1.49E-06		1.18E-04	1.42E-04	3.82E-07	7.05E-07	1.72E-05		1.05E-05	1.59E-04	1.42E-04	1.23E-03	1.18E-04

6c. 8-hour Hazard Index Chronic - Resident

A/N: _____

Application deemed complete date: 04/08/22

HIC 8-hr = [Q(ton/yr) * (X/Q) Resident * WAF Resident * MWAF] / 8-hr Chronic REL

Compound	HIC - Residential													
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN	
Particulate Emissions from Diesel-Fueled Engines														
Ammonia														
Arsenic and Compounds (Inorganic)			4.14E-06	4.14E-06						4.14E-06	4.14E-06	4.14E-06	4.14E-06	
Cadmium and Compounds														
Chlorine														
Copper and Compounds														
Lead and Compounds (Inorganic)														
Manganese and Compounds										1.79E-05				
Mercury and Compounds (Inorganic)				8.53E-07					8.53E-07	8.53E-07	8.53E-07			
Nickel and Compounds								3.62E-06				3.62E-06		
Selenium and Compounds														
Vanadium (Fume or Dust)														
1,3-Butadiene				2.01E-08										
Acetaldehyde												2.23E-09		
Acrolein												1.51E-09		
Benzene							9.66E-07							
Ethyl Benzene														
Formaldehyde												1.78E-07		
Methanol														
Methyl Ethyl Ketone (2-Butanone)														
Methyl Tertiary-Butyl Ether														
m-Xylene														
Naphthalene														
n-Hexane														
o-Xylene														
Propylene (Propene)														
p-Xylene														
Styrene														
Toluene														
Isopropyl Alcohol (Isopropanol)														
Ethylene Glycol														
n,n-Dimethyl Formamide														
Ethylene Glycol Ethyl Ether Acetate - EGEE														
Xylenes (Mixed Isomers)														
Total			4.14E-06	5.02E-06			9.66E-07	3.62E-06	8.53E-07	2.29E-05	5.00E-06	7.94E-06	4.14E-06	

A/N: _____

Application deemed complete date: 04/08/22

6c. 8-hour Hazard Index Chronic - Worker

HIC 8-hr = [Q(ton/yr) * (X/Q) Worker * WAF Worker * MWAF] / 8-hr Chronic REL

Compound	HIC - Commercial												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines													
Ammonia													
Arsenic and Compounds (Inorganic)			1.74E-05	1.74E-05						1.74E-05	1.74E-05	1.74E-05	1.74E-05
Cadmium and Compounds													
Chlorine													
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										7.54E-05			
Mercury and Compounds (Inorganic)				3.58E-06					3.58E-06	3.58E-06	3.58E-06		
Nickel and Compounds								1.52E-05				1.52E-05	
Selenium and Compounds													
Vanadium (Fume or Dust)													
1,3-Butadiene				8.44E-08									
Acetaldehyde												9.39E-09	
Acrolein												6.34E-09	
Benzene							4.06E-06						
Ethyl Benzene													
Formaldehyde												7.47E-07	
Methanol													
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether													
m-Xylene													
Naphthalene													
n-Hexane													
o-Xylene													
Propylene (Propene)													
p-Xylene													
Styrene													
Toluene													
Isopropyl Alcohol (Isopropanol)													
Ethylene Glycol													
n,n-Dimethyl Formamide													
Ethylene Glycol Ethyl Ether Acetate – EGEE													
Xylenes (Mixed Isomers)													
Total			1.74E-05	2.11E-05			4.06E-06	1.52E-05	3.58E-06	9.63E-05	2.10E-05	3.34E-05	1.74E-05

EMISSIONS ARE ENTERED ON THE EMISSIONS WORKSHEET OR ON ONE OF EQUIPMENT WORKSHEETS
INPUT PARAMETERS ENTERED ON THE EMISSIONS SHEET ARE USED FOR TIERS 1 AND TIER 2 ANALYSES

TIER 2 SCREENING RISK ASSESSMENT REPORT
(Procedure Version 8.1 & Package N, September 1, 2017) - Risk Tool V1.103

A/N: _____

Fac: ESP2 A2. Construction

Application deemed complete date: 4/8/2022

1. Stack Data

Equipment Type Other

Combustion Eff 0.0
With T-BACT

Operation Schedule 8 hrs/day
5 days/week
52 weeks/year

Stack Height 14 ft
Building Area 30000 ft²

Distance to Residential 402.336 m
Distance to Commercial 402.336 m
Meteorological Station Pico Rivera

2. Tier 2 Data

Dispersion Factors tables	Volume Source
For Chronic X/Q	Table 7
For Acute X/Q max	Table 7.7

Dilution Factors

Receptor	X/Q (µg/m ³)(tons/yr)	X/Qmax (µg/m ³)(lbs/hr)
Residential	0.09	14.43
Commercial - Worker	0.09	14.43

Intake and Adjustment Factors

Year of Exposure	Residential	Worker
2		
Combined Exposure Factor (CEF) - Table 4	311.35	4.47
Worker Adjustment Factor (WAF) - Table 5	1	4.20

A/N: _____

Application deemed complete date: 04/08/22

3. Rule 1401 Compound Data

Compound	R1 - Uncontrolled (lbs/hr)	R2 - Controlled (lbs/hr)	CP (mg/kg-day) ⁻¹	MP MICR Resident	MP MICR Worker	MP Chronic Resident	MP Chronic Worker	REL Chronic (µg/m³)	REL 8-hr Chronic (µg/m³)	REL Acute (µg/m³)	MWAF
Particulate Emissions from Diesel-Fueled Engines	6.95E-02	6.95E-02	1.10E+00	1.00	1.00	1.00	1.00	5.00E+00			1
Ammonia	1.12E-05	1.12E-05		1.00	1.00	1.00	1.00	2.00E+02		3.20E+03	1
Arsenic and Compounds (Inorganic)	8.51E-07	8.51E-07	1.20E+01	12.33	4.33	88.03	28.37	1.50E-02	1.50E-02	2.00E-01	1
Cadmium and Compounds	1.34E-06	1.34E-06	1.50E+01	1.00	1.00	1.98	1.20	2.00E-02			1
Chlorine	1.49E-04	1.49E-04		1.00	1.00	1.00	1.00	2.00E-01		2.10E+02	1
Copper and Compounds	1.09E-05	1.09E-05		1.00	1.00	1.00	1.00			1.00E+02	1
Lead and Compounds (Inorganic)	2.43E-05	2.43E-05	4.20E-02	15.22	5.63	1.00	1.00				1
Manganese and Compounds	4.18E-05	4.18E-05		1.00	1.00	1.00	1.00	9.00E-02	1.70E-01		1
Mercury and Compounds (Inorganic)	7.02E-07	7.02E-07		1.00	1.00	3.86	2.11	3.00E-02	6.00E-02	6.00E-01	1
Nickel and Compounds	2.97E-06	2.97E-06	9.10E-01	1.00	1.00	1.00	1.00	1.40E-02	6.00E-02	2.00E-01	1
Selenium and Compounds	1.19E-07	1.19E-07		1.00	1.00	195.58	23.71	2.00E+01			1
Vanadium (Fume or Dust)	1.18E-05	1.18E-05		1.00	1.00	1.00	1.00			3.00E+01	1
1,3-Butadiene	2.45E-06	2.45E-06	6.00E-01	1.00	1.00	1.00	1.00	2.00E+00	9.00E+00	6.60E+02	1
Acetaldehyde	9.07E-06	9.07E-06	1.00E-02	1.00	1.00	1.00	1.00	1.40E+02	3.00E+02	4.70E+02	1
Acrolein	1.43E-08	1.43E-08		1.00	1.00	1.00	1.00	3.50E-01	7.00E-01	2.50E+00	1
Benzene	3.92E-05	3.92E-05	1.00E-01	1.00	1.00	1.00	1.00	3.00E+00	3.00E+00	2.70E+01	1
Ethyl Benzene	1.02E-02	1.02E-02	8.70E-03	1.00	1.00	1.00	1.00	2.00E+03			1
Formaldehyde	2.16E-05	2.16E-05	2.10E-02	1.00	1.00	1.00	1.00	9.00E+00	9.00E+00	5.50E+01	1
Methanol	9.28E-03	9.28E-03		1.00	1.00	1.00	1.00	4.00E+03		2.80E+04	1
Methyl Ethyl Ketone (2-Butanone)	1.33E-02	1.33E-02		1.00	1.00	1.00	1.00			1.30E+04	1
Methyl Tertiary-Butyl Ether	4.71E-06	4.71E-06	1.80E-03	1.00	1.00	1.00	1.00	8.00E+03			1
m-Xylene	2.28E-05	2.28E-05		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Naphthalene	3.71E-06	3.71E-06	1.20E-01	1.00	1.00	1.00	1.00	9.00E+00			1
n-Hexane	4.93E-02	4.93E-02		1.00	1.00	1.00	1.00	7.00E+03			1
o-Xylene	1.62E-05	1.62E-05		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Propylene (Propene)	2.21E-05	2.21E-05		1.00	1.00	1.00	1.00	3.00E+03			1
p-Xylene	1.20E-05	1.20E-05		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Styrene	2.20E-06	2.20E-06		1.00	1.00	1.00	1.00	9.00E+02		2.10E+04	1
Toluene	1.24E-02	1.24E-02		1.00	1.00	1.00	1.00	3.00E+02		3.70E+04	1
Isopropyl Alcohol (Isopropanol)	3.90E-02	3.90E-02		1.00	1.00	1.00	1.00	7.00E+03		3.20E+03	1
Ethylene Glycol	1.43E-03	1.43E-03		1.00	1.00	1.00	1.00	4.00E+02			1
n,n-Dimethyl Formamide	1.19E-03	1.19E-03		1.00	1.00	1.00	1.00	8.00E+01			1
Ethylene Glycol Ethyl Ether Acetate - EGEE	3.09E-03	3.09E-03		1.00	1.00	1.00	1.00	3.00E+02		1.40E+02	1
Xylenes (Mixed Isomers)	6.19E-03	6.19E-03		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1

A/N: _____

Application deemed complete date: 04/08/22

4. Emission Calculations

Compound	R1 (lbs/hr)	R2 (lbs/hr)	R1 (lbs/day)	R2 (lbs/day)	R2 (lbs/yr)	R2 (tons/yr)
Particulate Emissions from Diesel-Fueled Engines	6.95E-02	6.95E-02	5.56E-01	5.56E-01	1.45E+02	7.23E-02
Ammonia	1.12E-05	1.12E-05	8.93E-05	8.93E-05	2.32E-02	1.16E-05
Arsenic and Compounds (Inorganic)	8.51E-07	8.51E-07	6.81E-06	6.81E-06	1.77E-03	8.86E-07
Cadmium and Compounds	1.34E-06	1.34E-06	1.07E-05	1.07E-05	2.79E-03	1.39E-06
Chlorine	1.49E-04	1.49E-04	1.19E-03	1.19E-03	3.10E-01	1.55E-04
Copper and Compounds	1.09E-05	1.09E-05	8.69E-05	8.69E-05	2.26E-02	1.13E-05
Lead and Compounds (Inorganic)	2.43E-05	2.43E-05	1.94E-04	1.94E-04	5.05E-02	2.52E-05
Manganese and Compounds	4.18E-05	4.18E-05	3.34E-04	3.34E-04	8.69E-02	4.35E-05
Mercury and Compounds (Inorganic)	7.02E-07	7.02E-07	5.61E-06	5.61E-06	1.46E-03	7.30E-07
Nickel and Compounds	2.97E-06	2.97E-06	2.38E-05	2.38E-05	6.18E-03	3.09E-06
Selenium and Compounds	1.19E-07	1.19E-07	9.50E-07	9.50E-07	2.47E-04	1.23E-07
Vanadium (Fume or Dust)	1.18E-05	1.18E-05	9.43E-05	9.43E-05	2.45E-02	1.23E-05
1,3-Butadiene	2.45E-06	2.45E-06	1.96E-05	1.96E-05	5.09E-03	2.54E-06
Acetaldehyde	9.07E-06	9.07E-06	7.25E-05	7.25E-05	1.89E-02	9.43E-06
Acrolein	1.43E-08	1.43E-08	1.14E-07	1.14E-07	2.97E-05	1.49E-08
Benzene	3.92E-05	3.92E-05	3.14E-04	3.14E-04	8.15E-02	4.08E-05
Ethyl Benzene	1.02E-02	1.02E-02	8.20E-02	8.20E-02	2.13E+01	1.07E-02
Formaldehyde	2.16E-05	2.16E-05	1.73E-04	1.73E-04	4.50E-02	2.25E-05
Methanol	9.28E-03	9.28E-03	7.43E-02	7.43E-02	1.93E+01	9.66E-03
Methyl Ethyl Ketone (2-Butanone)	1.33E-02	1.33E-02	1.07E-01	1.07E-01	2.77E+01	1.39E-02
Methyl Tertiary-Butyl Ether	4.71E-06	4.71E-06	3.77E-05	3.77E-05	9.81E-03	4.90E-06
m-Xylene	2.28E-05	2.28E-05	1.83E-04	1.83E-04	4.75E-02	2.38E-05
Naphthalene	3.71E-06	3.71E-06	2.97E-05	2.97E-05	7.72E-03	3.86E-06
n-Hexane	4.93E-02	4.93E-02	3.94E-01	3.94E-01	1.03E+02	5.13E-02
o-Xylene	1.62E-05	1.62E-05	1.30E-04	1.30E-04	3.38E-02	1.69E-05
Propylene (Propene)	2.21E-05	2.21E-05	1.77E-04	1.77E-04	4.60E-02	2.30E-05
p-Xylene	1.20E-05	1.20E-05	9.63E-05	9.63E-05	2.50E-02	1.25E-05
Styrene	2.20E-06	2.20E-06	1.76E-05	1.76E-05	4.58E-03	2.29E-06
Toluene	1.24E-02	1.24E-02	9.94E-02	9.94E-02	2.58E+01	1.29E-02
Isopropyl Alcohol (Isopropanol)	3.90E-02	3.90E-02	3.12E-01	3.12E-01	8.12E+01	4.06E-02
Ethylene Glycol	1.43E-03	1.43E-03	1.14E-02	1.14E-02	2.97E+00	1.49E-03
n,n-Dimethyl Formamide	1.19E-03	1.19E-03	9.52E-03	9.52E-03	2.48E+00	1.24E-03
Ethylene Glycol Ethyl Ether Acetate – EGEE	3.09E-03	3.09E-03	2.48E-02	2.48E-02	6.44E+00	3.22E-03
Xylenes (Mixed Isomers)	6.19E-03	6.19E-03	4.95E-02	4.95E-02	1.29E+01	6.44E-03
Total	2.15E-01	2.15E-01	1.72E+00	1.72E+00	4.48E+02	2.24E-01

TIER 2 RESULTS

A/N: _____

Application deemed complete date: 04/08/22

5a. MICR

MICR Resident = CP (mg/(kg-day))⁻¹ * Q (ton/yr) * (X/Q) Resident * CEF Resident * MP Resident * 1e-6 * MWF

MICR Worker = CP (mg/(kg-day))⁻¹ * Q (ton/yr) * (X/Q) Worker * CEF Worker * MP Worker * WAF Worker * 1e-6 * MWF

Compound	Residential	Commercial
Particulate Emissions from Diesel-Fueled Engines	2.20E-06	1.33E-07
Ammonia		
Arsenic and Compounds (Inorganic)	3.63E-09	7.69E-11
Cadmium and Compounds	5.79E-10	3.49E-11
Chlorine		
Copper and Compounds		
Lead and Compounds (Inorganic)	4.47E-10	9.97E-12
Manganese and Compounds		
Mercury and Compounds (Inorganic)		
Nickel and Compounds	7.79E-11	4.70E-12
Selenium and Compounds		
Vanadium (Fume or Dust)		
1,3-Butadiene	4.23E-11	2.55E-12
Acetaldehyde	2.62E-12	1.58E-13
Acrolein		
Benzene	1.13E-10	6.81E-12
Ethyl Benzene	2.57E-09	1.55E-10
Formaldehyde	1.31E-11	7.90E-13
Methanol		
Methyl Ethyl Ketone (2-Butanone)		
Methyl Tertiary-Butyl Ether	2.45E-13	1.48E-14
m-Xylene		
Naphthalene	1.28E-11	7.75E-13
n-Hexane		
o-Xylene		
Propylene (Propene)		
p-Xylene		
Styrene		
Toluene		
Isopropyl Alcohol (Isopropanol)		
Ethylene Glycol		
n,n-Dimethyl Formamide		
Ethylene Glycol Ethyl Ether Acetate – EGEE		
Xylenes (Mixed Isomers)		
Total	2.21E-06	1.33E-07
	PASS	PASS

5b. Is Cancer Burden Calculation Needed (MICR > 1E-6)?

YES

New X/Q at which MICR_{70yr} is one-in-a-million [(µg/m³)/(tons/yr)]: 1.63E-02

New Distance, interpolated from X/Q table using New X/Q (meter): 920.64

Zone Impact Area (km²): 2.66E+00

Zone of Impact Population (7000 person/km²): 1.86E+04

Cancer Burden: 1.02E-01

Cancer Burden is less than or equal to 0.5

PASS

6. Hazard Index Summary

A/N: _____

Application deemed complete date: 04/08/22

HIA = [Q(lb/hr) * (X/Q)max * MWF] / Acute REL
 HIC = [Q(ton/yr) * (X/Q) * MP * MWF] / Chronic REL
 HIC 8-hr= [Q(ton/yr) * (X/Q) * WAF * MWF] / 8-hr Chronic REL

Target Organs	Acute	Chronic	8-hr Chronic	Acute Pass/Fail	Chronic Pass/Fail	8-hr Chronic Pass/Fail
Alimentary system (liver) - AL		1.96E-06		Pass	Pass	Pass
Bones and teeth - BN				Pass	Pass	Pass
Cardiovascular system - CV	6.14E-05	4.63E-04	2.21E-05	Pass	Pass	Pass
Developmental - DEV	4.23E-04	4.97E-04	2.67E-05	Pass	Pass	Pass
Endocrine system - END		4.75E-07		Pass	Pass	Pass
Eye	2.22E-04	8.26E-07		Pass	Pass	Pass
Hematopoietic system - HEM	2.10E-05	2.18E-05	5.08E-06	Pass	Pass	Pass
Immune system - IMM	2.35E-04		1.93E-05	Pass	Pass	Pass
Kidney - KID		2.19E-05	4.55E-06	Pass	Pass	Pass
Nervous system - NS	4.11E-04	5.20E-04	1.22E-04	Pass	Pass	Pass
Reproductive system - REP	4.23E-04	4.97E-04	2.66E-05	Pass	Pass	Pass
Respiratory system - RESP	2.18E-04	1.86E-03	4.23E-05	Pass	Pass	Pass
Skin		4.63E-04	2.21E-05	Pass	Pass	Pass

A/N: _____

Application deemed complete date: 04/08/22

6a. Hazard Index Acute - Resident

HIA = [Q(lb/hr) * (X/Q)max resident * MWAF] / Acute REL

Compound	HIA - Residential									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines										
Ammonia				5.04E-08					5.04E-08	
Arsenic and Compounds (Inorganic)		6.14E-05	6.14E-05				6.14E-05	6.14E-05		
Cadmium and Compounds										
Chlorine				1.03E-05					1.03E-05	
Copper and Compounds									1.57E-06	
Lead and Compounds (Inorganic)										
Manganese and Compounds										
Mercury and Compounds (Inorganic)			1.69E-05				1.69E-05	1.69E-05		
Nickel and Compounds						2.14E-04				
Selenium and Compounds										
Vanadium (Fume or Dust)				5.67E-06					5.67E-06	
1,3-Butadiene			5.35E-08					5.35E-08		
Acetaldehyde				2.78E-07					2.78E-07	
Acrolein				8.25E-08					8.25E-08	
Benzene			2.10E-05		2.10E-05	2.10E-05		2.10E-05		
Ethyl Benzene										
Formaldehyde				5.68E-06						
Methanol							4.79E-06			
Methyl Ethyl Ketone (2-Butanone)				1.48E-05					1.48E-05	
Methyl Tertiary-Butyl Ether										
m-Xylene				1.50E-08			1.50E-08		1.50E-08	
Naphthalene										
n-Hexane										
o-Xylene				1.07E-08			1.07E-08		1.07E-08	
Propylene (Propene)										
p-Xylene				7.90E-09			7.90E-09		7.90E-09	
Styrene			1.51E-09	1.51E-09				1.51E-09	1.51E-09	
Toluene			4.85E-06	4.85E-06			4.85E-06	4.85E-06	4.85E-06	
Isopropyl Alcohol (Isopropanol)				1.76E-04					1.76E-04	
Ethylene Glycol										
n,n-Dimethyl Formamide										
Ethylene Glycol Ethyl Ether Acetate – EGEE			3.19E-04				3.19E-04	3.19E-04		
Xylenes (Mixed Isomers)				4.06E-06			4.06E-06		4.06E-06	
Total		6.14E-05	4.23E-04	2.22E-04	2.10E-05	2.35E-04	4.11E-04	4.23E-04	2.18E-04	

6a. Hazard Index Acute - Worker

A/N: _____

Application deemed complete date: 04/08/22

HIA = [Q(lb/hr) * (X/Q)max Worker * MWAF] / Acute REL

Compound	HIA - Commercial									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines				5.04E-08					5.04E-08	
Ammonia										
Arsenic and Compounds (Inorganic)		6.14E-05	6.14E-05				6.14E-05	6.14E-05		
Cadmium and Compounds										
Chlorine				1.03E-05					1.03E-05	
Copper and Compounds									1.57E-06	
Lead and Compounds (Inorganic)										
Manganese and Compounds										
Mercury and Compounds (Inorganic)			1.69E-05				1.69E-05	1.69E-05		
Nickel and Compounds						2.14E-04				
Selenium and Compounds										
Vanadium (Fume or Dust)				5.67E-06					5.67E-06	
1,3-Butadiene			5.35E-08					5.35E-08		
Acetaldehyde				2.78E-07					2.78E-07	
Acrolein				8.25E-08					8.25E-08	
Benzene			2.10E-05		2.10E-05	2.10E-05		2.10E-05		
Ethyl Benzene										
Formaldehyde				5.68E-06						
Methanol							4.79E-06			
Methyl Ethyl Ketone (2-Butanone)				1.48E-05					1.48E-05	
Methyl Tertiary-Butyl Ether										
m-Xylene				1.50E-08			1.50E-08		1.50E-08	
Naphthalene										
n-Hexane										
o-Xylene				1.07E-08			1.07E-08		1.07E-08	
Propylene (Propene)										
p-Xylene				7.90E-09			7.90E-09		7.90E-09	
Styrene			1.51E-09	1.51E-09				1.51E-09	1.51E-09	
Toluene			4.85E-06	4.85E-06			4.85E-06	4.85E-06	4.85E-06	
Isopropyl Alcohol (Isopropanol)				1.76E-04					1.76E-04	
Ethylene Glycol										
n,n-Dimethyl Formamide										
Ethylene Glycol Ethyl Ether Acetate - EGEE			3.19E-04				3.19E-04	3.19E-04		
Xylenes (Mixed Isomers)				4.06E-06			4.06E-06		4.06E-06	
Total		6.14E-05	4.23E-04	2.22E-04	2.10E-05	2.35E-04	4.11E-04	4.23E-04	2.18E-04	

A/N: _____

Application deemed complete date: 04/08/22

6b. Hazard Index Chronic - Resident

HIC = [Q(ton/yr) * (X/Q) Resident * MP Chronic Resident * MAAF] / Chronic REL

Compound	HIC - Residential												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines												1.29E-03	
Ammonia												5.17E-09	
Arsenic and Compounds (Inorganic)			4.63E-04	4.63E-04						4.63E-04	4.63E-04	4.63E-04	4.63E-04
Cadmium and Compounds									1.23E-05			1.23E-05	
Chlorine												6.91E-05	
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										4.30E-05			
Mercury and Compounds (Inorganic)				8.37E-06					8.37E-06	8.37E-06	8.37E-06		
Nickel and Compounds				1.96E-05			1.96E-05				1.96E-05	1.96E-05	
Selenium and Compounds	1.08E-07		1.08E-07							1.08E-07			
Vanadium (Fume or Dust)													
1,3-Butadiene				1.13E-07							1.13E-07		
Acetaldehyde												6.00E-09	
Acrolein												3.78E-09	
Benzene							1.21E-06						
Ethyl Benzene	4.75E-07			4.75E-07	4.75E-07				4.75E-07		4.75E-07		
Formaldehyde												2.23E-07	
Methanol				2.15E-07							2.15E-07		
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether	5.46E-11					5.46E-11			5.46E-11				
m-Xylene						3.02E-09				3.02E-09		3.02E-09	
Naphthalene												3.82E-08	
n-Hexane										6.52E-07			
o-Xylene						2.15E-09				2.15E-09		2.15E-09	
Propylene (Propene)												6.83E-10	
p-Xylene						1.59E-09				1.59E-09		1.59E-09	
Styrene										2.27E-10			
Toluene				3.84E-06						3.84E-06	3.84E-06	3.84E-06	
Isopropyl Alcohol (Isopropanol)				5.17E-07					5.17E-07		5.17E-07		
Ethylene Glycol				3.31E-07					3.31E-07		3.31E-07	3.31E-07	
n,n-Dimethyl Formamide	1.38E-06											1.38E-06	
Ethylene Glycol Ethyl Ether Acetate – EGEE				9.55E-07			9.55E-07				9.55E-07		
Xylenes (Mixed Isomers)						8.19E-07				8.19E-07		8.19E-07	
Total	1.96E-06		4.63E-04	4.97E-04	4.75E-07	8.26E-07	2.18E-05		2.19E-05	5.20E-04	4.97E-04	1.86E-03	4.63E-04

A/N: _____

Application deemed complete date: 04/08/22

6b. Hazard Index Chronic - Worker

HIC = [Q(ton/yr) * (X/Q) * MP Chronic Worker * MWF] / Chronic REL

Compound	HIC - Commercial												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines												1.29E-03	
Ammonia												5.17E-09	
Arsenic and Compounds (Inorganic)			1.49E-04	1.49E-04						1.49E-04	1.49E-04	1.49E-04	1.49E-04
Cadmium and Compounds									7.45E-06			7.45E-06	
Chlorine												6.91E-05	
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										4.30E-05			
Mercury and Compounds (Inorganic)				4.57E-06					4.57E-06	4.57E-06	4.57E-06		
Nickel and Compounds				1.96E-05			1.96E-05				1.96E-05	1.96E-05	
Selenium and Compounds	1.30E-08		1.30E-08							1.30E-08			
Vanadium (Fume or Dust)													
1,3-Butadiene				1.13E-07							1.13E-07		
Acetaldehyde												6.00E-09	
Acrolein												3.78E-09	
Benzene							1.21E-06						
Ethyl Benzene	4.75E-07			4.75E-07	4.75E-07				4.75E-07		4.75E-07		
Formaldehyde												2.23E-07	
Methanol				2.15E-07							2.15E-07		
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether	5.46E-11					5.46E-11			5.46E-11				
m-Xylene						3.02E-09				3.02E-09		3.02E-09	
Naphthalene												3.82E-08	
n-Hexane										6.52E-07			
o-Xylene						2.15E-09				2.15E-09		2.15E-09	
Propylene (Propene)												6.83E-10	
p-Xylene						1.59E-09				1.59E-09		1.59E-09	
Styrene										2.27E-10			
Toluene				3.84E-06						3.84E-06	3.84E-06	3.84E-06	
Isopropyl Alcohol (Isopropanol)				5.17E-07					5.17E-07		5.17E-07		
Ethylene Glycol				3.31E-07					3.31E-07		3.31E-07	3.31E-07	
n,n-Dimethyl Formamide	1.38E-06											1.38E-06	
Ethylene Glycol Ethyl Ether Acetate - EGEE				9.55E-07			9.55E-07				9.55E-07		
Xylenes (Mixed Isomers)						8.19E-07				8.19E-07		8.19E-07	
Total	1.87E-06		1.49E-04	1.80E-04	4.75E-07	8.26E-07	2.18E-05		1.33E-05	2.02E-04	1.80E-04	1.54E-03	1.49E-04

6c. 8-hour Hazard Index Chronic - Resident

A/N: _____

Application deemed complete date: 04/08/22

HIC 8-hr = [Q(ton/yr) * (X/Q) Resident * WAF Resident * MWAF] / 8-hr Chronic REL

Compound	HIC - Residential													
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN	
Particulate Emissions from Diesel-Fueled Engines														
Ammonia														
Arsenic and Compounds (Inorganic)			5.26E-06	5.26E-06						5.26E-06	5.26E-06	5.26E-06	5.26E-06	
Cadmium and Compounds														
Chlorine														
Copper and Compounds														
Lead and Compounds (Inorganic)														
Manganese and Compounds										2.28E-05				
Mercury and Compounds (Inorganic)				1.08E-06					1.08E-06	1.08E-06	1.08E-06			
Nickel and Compounds								4.58E-06				4.58E-06		
Selenium and Compounds														
Vanadium (Fume or Dust)														
1,3-Butadiene				2.52E-08										
Acetaldehyde												2.80E-09		
Acrolein												1.89E-09		
Benzene							1.21E-06							
Ethyl Benzene														
Formaldehyde												2.23E-07		
Methanol														
Methyl Ethyl Ketone (2-Butanone)														
Methyl Tertiary-Butyl Ether														
m-Xylene														
Naphthalene														
n-Hexane														
o-Xylene														
Propylene (Propene)														
p-Xylene														
Styrene														
Toluene														
Isopropyl Alcohol (Isopropanol)														
Ethylene Glycol														
n,n-Dimethyl Formamide														
Ethylene Glycol Ethyl Ether Acetate – EGEE														
Xylenes (Mixed Isomers)														
Total			5.26E-06	6.37E-06			1.21E-06	4.58E-06	1.08E-06	2.91E-05	6.34E-06	1.01E-05	5.26E-06	

A/N: _____

Application deemed complete date: 04/08/22

6c. 8-hour Hazard Index Chronic - Worker

HIC 8-hr = [Q(ton/yr) * (X/Q) Worker * WAF Worker * MWAF] / 8-hr Chronic REL

Compound	HIC - Commercial												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines													
Ammonia													
Arsenic and Compounds (Inorganic)			2.21E-05	2.21E-05						2.21E-05	2.21E-05	2.21E-05	2.21E-05
Cadmium and Compounds													
Chlorine													
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										9.56E-05			
Mercury and Compounds (Inorganic)				4.55E-06					4.55E-06	4.55E-06	4.55E-06		
Nickel and Compounds								1.93E-05				1.93E-05	
Selenium and Compounds													
Vanadium (Fume or Dust)													
1,3-Butadiene				1.06E-07									
Acetaldehyde												1.18E-08	
Acrolein												7.94E-09	
Benzene							5.08E-06						
Ethyl Benzene													
Formaldehyde												9.36E-07	
Methanol													
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether													
m-Xylene													
Naphthalene													
n-Hexane													
o-Xylene													
Propylene (Propene)													
p-Xylene													
Styrene													
Toluene													
Isopropyl Alcohol (Isopropanol)													
Ethylene Glycol													
n,n-Dimethyl Formamide													
Ethylene Glycol Ethyl Ether Acetate – EGEE													
Xylenes (Mixed Isomers)													
Total			2.21E-05	2.67E-05			5.08E-06	1.93E-05	4.55E-06	1.22E-04	2.66E-05	4.23E-05	2.21E-05

EMISSIONS ARE ENTERED ON THE EMISSIONS WORKSHEET OR ON ONE OF EQUIPMENT WORKSHEETS
INPUT PARAMETERS ENTERED ON THE EMISSIONS SHEET ARE USED FOR TIERS 1 AND TIER 2 ANALYSES

TIER 2 SCREENING RISK ASSESSMENT REPORT
(Procedure Version 8.1 & Package N, September 1, 2017) - Risk Tool V1.103

A/N: _____

Fac: ESP2 A3. Construction

Application deemed complete date: 4/8/2022

1. Stack Data

Equipment Type Other

Combustion Eff 0.0
With T-BACT

Operation Schedule 8 hrs/day
5 days/week
52 weeks/year

Stack Height 14 ft
Building Area 30000 ft²

Distance to Residential 402.336 m
Distance to Commercial 402.336 m
Meteorological Station Pico Rivera

2. Tier 2 Data

Dispersion Factors tables	Volume Source
For Chronic X/Q	Table 7
For Acute X/Q max	Table 7.7

Dilution Factors

Receptor	X/Q (µg/m ³)(tons/yr)	X/Qmax (µg/m ³)(lbs/hr)
Residential	0.09	14.43
Commercial - Worker	0.09	14.43

Intake and Adjustment Factors

	Residential	Worker
Year of Exposure	2	
Combined Exposure Factor (CEF) - Table 4	311.35	4.47
Worker Adjustment Factor (WAF) - Table 5	1	4.20

A/N: _____

Application deemed complete date: 04/08/22

3. Rule 1401 Compound Data

Compound	R1 - Uncontrolled (lbs/hr)	R2 - Controlled (lbs/hr)	CP (mg/kg-day) ⁻¹	MP MICR Resident	MP MICR Worker	MP Chronic Resident	MP Chronic Worker	REL Chronic (µg/m ³)	REL 8-hr Chronic (µg/m ³)	REL Acute (µg/m ³)	MWAF
Particulate Emissions from Diesel-Fueled Engines	5.69E-02	5.69E-02	1.10E+00	1.00	1.00	1.00	1.00	5.00E+00			1
Ammonia	9.15E-06	9.15E-06		1.00	1.00	1.00	1.00	2.00E+02		3.20E+03	1
Arsenic and Compounds (Inorganic)	6.98E-07	6.98E-07	1.20E+01	12.33	4.33	88.03	28.37	1.50E-02	1.50E-02	2.00E-01	1
Cadmium and Compounds	1.10E-06	1.10E-06	1.50E+01	1.00	1.00	1.98	1.20	2.00E-02			1
Chlorine	1.22E-04	1.22E-04		1.00	1.00	1.00	1.00	2.00E-01		2.10E+02	1
Copper and Compounds	8.90E-06	8.90E-06		1.00	1.00	1.00	1.00			1.00E+02	1
Lead and Compounds (Inorganic)	1.99E-05	1.99E-05	4.20E-02	15.22	5.63	1.00	1.00				1
Manganese and Compounds	3.42E-05	3.42E-05		1.00	1.00	1.00	1.00	9.00E-02	1.70E-01		1
Mercury and Compounds (Inorganic)	5.75E-07	5.75E-07		1.00	1.00	3.86	2.11	3.00E-02	6.00E-02	6.00E-01	1
Nickel and Compounds	2.43E-06	2.43E-06	9.10E-01	1.00	1.00	1.00	1.00	1.40E-02	6.00E-02	2.00E-01	1
Selenium and Compounds	9.73E-08	9.73E-08		1.00	1.00	195.58	23.71	2.00E+01			1
Vanadium (Fume or Dust)	9.66E-06	9.66E-06		1.00	1.00	1.00	1.00			3.00E+01	1
1,3-Butadiene	2.00E-06	2.00E-06	6.00E-01	1.00	1.00	1.00	1.00	2.00E+00	9.00E+00	6.60E+02	1
Acetaldehyde	7.43E-06	7.43E-06	1.00E-02	1.00	1.00	1.00	1.00	1.40E+02	3.00E+02	4.70E+02	1
Acrolein	1.17E-08	1.17E-08		1.00	1.00	1.00	1.00	3.50E-01	7.00E-01	2.50E+00	1
Benzene	3.21E-05	3.21E-05	1.00E-01	1.00	1.00	1.00	1.00	3.00E+00	3.00E+00	2.70E+01	1
Ethyl Benzene	8.42E-03	8.42E-03	8.70E-03	1.00	1.00	1.00	1.00	2.00E+03			1
Formaldehyde	1.77E-05	1.77E-05	2.10E-02	1.00	1.00	1.00	1.00	9.00E+00	9.00E+00	5.50E+01	1
Methanol	7.61E-03	7.61E-03		1.00	1.00	1.00	1.00	4.00E+03		2.80E+04	1
Methyl Ethyl Ketone (2-Butanone)	1.09E-02	1.09E-02		1.00	1.00	1.00	1.00			1.30E+04	1
Methyl Tertiary-Butyl Ether	3.86E-06	3.86E-06	1.80E-03	1.00	1.00	1.00	1.00	8.00E+03			1
m-Xylene	1.87E-05	1.87E-05		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Naphthalene	3.04E-06	3.04E-06	1.20E-01	1.00	1.00	1.00	1.00	9.00E+00			1
n-Hexane	4.04E-02	4.04E-02		1.00	1.00	1.00	1.00	7.00E+03			1
o-Xylene	5.23E-05	5.23E-05		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Propylene (Propene)	1.81E-05	1.81E-05		1.00	1.00	1.00	1.00	3.00E+03			1
p-Xylene	9.86E-06	9.86E-06		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1
Styrene	1.80E-06	1.80E-06		1.00	1.00	1.00	1.00	9.00E+02		2.10E+04	1
Toluene	1.02E-02	1.02E-02		1.00	1.00	1.00	1.00	3.00E+02		3.70E+04	1
Isopropyl Alcohol (Isopropanol)	3.20E-02	3.20E-02		1.00	1.00	1.00	1.00	7.00E+03		3.20E+03	1
Ethylene Glycol	1.17E-03	1.17E-03		1.00	1.00	1.00	1.00	4.00E+02			1
n,n-Dimethyl Formamide	9.75E-04	9.75E-04		1.00	1.00	1.00	1.00	8.00E+01			1
Ethylene Glycol Ethyl Ether Acetate - EGEE	2.54E-03	2.54E-03		1.00	1.00	1.00	1.00	3.00E+02		1.40E+02	1
Xylenes (Mixed Isomers)	5.16E-03	5.16E-03		1.00	1.00	1.00	1.00	7.00E+02		2.20E+04	1

A/N: _____

Application deemed complete date: 04/08/22

4. Emission Calculations

Compound	R1 (lbs/hr)	R2 (lbs/hr)	R1 (lbs/day)	R2 (lbs/day)	R2 (lbs/yr)	R2 (tons/yr)
Particulate Emissions from Diesel-Fueled Engines	5.69E-02	5.69E-02	4.55E-01	4.55E-01	1.18E+02	5.92E-02
Ammonia	9.15E-06	9.15E-06	7.32E-05	7.32E-05	1.90E-02	9.51E-06
Arsenic and Compounds (Inorganic)	6.98E-07	6.98E-07	5.58E-06	5.58E-06	1.45E-03	7.26E-07
Cadmium and Compounds	1.10E-06	1.10E-06	8.78E-06	8.78E-06	2.28E-03	1.14E-06
Chlorine	1.22E-04	1.22E-04	9.78E-04	9.78E-04	2.54E-01	1.27E-04
Copper and Compounds	8.90E-06	8.90E-06	7.12E-05	7.12E-05	1.85E-02	9.25E-06
Lead and Compounds (Inorganic)	1.99E-05	1.99E-05	1.59E-04	1.59E-04	4.13E-02	2.07E-05
Manganese and Compounds	3.42E-05	3.42E-05	2.74E-04	2.74E-04	7.12E-02	3.56E-05
Mercury and Compounds (Inorganic)	5.75E-07	5.75E-07	4.60E-06	4.60E-06	1.20E-03	5.98E-07
Nickel and Compounds	2.43E-06	2.43E-06	1.95E-05	1.95E-05	5.06E-03	2.53E-06
Selenium and Compounds	9.73E-08	9.73E-08	7.78E-07	7.78E-07	2.02E-04	1.01E-07
Vanadium (Fume or Dust)	9.66E-06	9.66E-06	7.73E-05	7.73E-05	2.01E-02	1.00E-05
1,3-Butadiene	2.00E-06	2.00E-06	1.60E-05	1.60E-05	4.17E-03	2.08E-06
Acetaldehyde	7.43E-06	7.43E-06	5.94E-05	5.94E-05	1.55E-02	7.73E-06
Acrolein	1.17E-08	1.17E-08	9.36E-08	9.36E-08	2.43E-05	1.22E-08
Benzene	3.21E-05	3.21E-05	2.57E-04	2.57E-04	6.68E-02	3.34E-05
Ethyl Benzene	8.42E-03	8.42E-03	6.74E-02	6.74E-02	1.75E+01	8.76E-03
Formaldehyde	1.77E-05	1.77E-05	1.42E-04	1.42E-04	3.69E-02	1.84E-05
Methanol	7.61E-03	7.61E-03	6.08E-02	6.08E-02	1.58E+01	7.91E-03
Methyl Ethyl Ketone (2-Butanone)	1.09E-02	1.09E-02	8.74E-02	8.74E-02	2.27E+01	1.14E-02
Methyl Tertiary-Butyl Ether	3.86E-06	3.86E-06	3.09E-05	3.09E-05	8.03E-03	4.02E-06
m-Xylene	1.87E-05	1.87E-05	1.50E-04	1.50E-04	3.89E-02	1.95E-05
Naphthalene	3.04E-06	3.04E-06	2.43E-05	2.43E-05	6.33E-03	3.16E-06
n-Hexane	4.04E-02	4.04E-02	3.23E-01	3.23E-01	8.40E+01	4.20E-02
o-Xylene	5.23E-05	5.23E-05	4.18E-04	4.18E-04	1.09E-01	5.44E-05
Propylene (Propene)	1.81E-05	1.81E-05	1.45E-04	1.45E-04	3.77E-02	1.89E-05
p-Xylene	9.86E-06	9.86E-06	7.89E-05	7.89E-05	2.05E-02	1.03E-05
Styrene	1.80E-06	1.80E-06	1.44E-05	1.44E-05	3.75E-03	1.88E-06
Toluene	1.02E-02	1.02E-02	8.20E-02	8.20E-02	2.13E+01	1.07E-02
Isopropyl Alcohol (Isopropanol)	3.20E-02	3.20E-02	2.56E-01	2.56E-01	6.65E+01	3.33E-02
Ethylene Glycol	1.17E-03	1.17E-03	9.36E-03	9.36E-03	2.43E+00	1.22E-03
n,n-Dimethyl Formamide	9.75E-04	9.75E-04	7.80E-03	7.80E-03	2.03E+00	1.01E-03
Ethylene Glycol Ethyl Ether Acetate – EGEE	2.54E-03	2.54E-03	2.03E-02	2.03E-02	5.27E+00	2.64E-03
Xylenes (Mixed Isomers)	5.16E-03	5.16E-03	4.13E-02	4.13E-02	1.07E+01	5.37E-03
Total	1.77E-01	1.77E-01	1.41E+00	1.41E+00	3.68E+02	1.84E-01

TIER 2 RESULTS

A/N: _____

Application deemed complete date: 04/08/22

5a. MICR

MICR Resident = CP (mg/(kg-day))⁻¹ * Q (ton/yr) * (X/Q) Resident * CEF Resident * MP Resident * 1e-6 * MWF

MICR Worker = CP (mg/(kg-day))⁻¹ * Q (ton/yr) * (X/Q) Worker * CEF Worker * MP Worker * WAF Worker * 1e-6 * MWF

Compound	Residential	Commercial
Particulate Emissions from Diesel-Fueled Engines	1.81E-06	1.09E-07
Ammonia		
Arsenic and Compounds (Inorganic)	2.98E-09	6.30E-11
Cadmium and Compounds	4.75E-10	2.86E-11
Chlorine		
Copper and Compounds		
Lead and Compounds (Inorganic)	3.66E-10	8.17E-12
Manganese and Compounds		
Mercury and Compounds (Inorganic)		
Nickel and Compounds	6.39E-11	3.85E-12
Selenium and Compounds		
Vanadium (Fume or Dust)		
1,3-Butadiene	3.47E-11	2.09E-12
Acetaldehyde	2.14E-12	1.29E-13
Acrolein		
Benzene	9.26E-11	5.58E-12
Ethyl Benzene	2.11E-09	1.27E-10
Formaldehyde	1.07E-11	6.47E-13
Methanol		
Methyl Ethyl Ketone (2-Butanone)		
Methyl Tertiary-Butyl Ether	2.01E-13	1.21E-14
m-Xylene		
Naphthalene	1.05E-11	6.35E-13
n-Hexane		
o-Xylene		
Propylene (Propene)		
p-Xylene		
Styrene		
Toluene		
Isopropyl Alcohol (Isopropanol)		
Ethylene Glycol		
n,n-Dimethyl Formamide		
Ethylene Glycol Ethyl Ether Acetate – EGEE		
Xylenes (Mixed Isomers)		
Total	1.81E-06	1.09E-07
	PASS	PASS

5b. Is Cancer Burden Calculation Needed (MICR > 1E-6)?

YES

New X/Q at which MICR_{70yr} is one-in-a-million [(µg/m³)/(tons/yr)]: 2.00E-02

New Distance, interpolated from X/Q table using New X/Q (meter): 875.57

Zone Impact Area (km²): 2.41E+00

Zone of Impact Population (7000 person/km²): 1.69E+04

Cancer Burden: 7.52E-02

Cancer Burden is less than or equal to 0.5

PASS

6. Hazard Index Summary

A/N: _____

Application deemed complete date: 04/08/22

HIA = [Q(lb/hr) * (X/Q)max * MWF] / Acute REL
 HIC = [Q(ton/yr) * (X/Q) * MP * MWF] / Chronic REL
 HIC 8-hr= [Q(ton/yr) * (X/Q) * WAF * MWF] / 8-hr Chronic REL

Target Organs	Acute	Chronic	8-hr Chronic	Acute Pass/Fail	Chronic Pass/Fail	8-hr Chronic Pass/Fail
Alimentary system (liver) - AL		1.61E-06		Pass	Pass	Pass
Bones and teeth - BN				Pass	Pass	Pass
Cardiovascular system - CV	5.03E-05	3.79E-04	1.81E-05	Pass	Pass	Pass
Developmental - DEV	3.47E-04	4.07E-04	2.19E-05	Pass	Pass	Pass
Endocrine system - END		3.90E-07		Pass	Pass	Pass
Eye	1.82E-04	6.94E-07		Pass	Pass	Pass
Hematopoietic system - HEM	1.72E-05	1.79E-05	4.16E-06	Pass	Pass	Pass
Immune system - IMM	1.93E-04		1.58E-05	Pass	Pass	Pass
Kidney - KID		1.80E-05	3.73E-06	Pass	Pass	Pass
Nervous system - NS	3.37E-04	4.26E-04	1.00E-04	Pass	Pass	Pass
Reproductive system - REP	3.47E-04	4.07E-04	2.18E-05	Pass	Pass	Pass
Respiratory system - RESP	1.78E-04	1.52E-03	3.47E-05	Pass	Pass	Pass
Skin		3.79E-04	1.81E-05	Pass	Pass	Pass

A/N: _____

Application deemed complete date: 04/08/22

6a. Hazard Index Acute - Resident

HIA = [Q(lb/hr) * (X/Q)max resident * MWAF] / Acute REL

Compound	HIA - Residential									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines				4.13E-08					4.13E-08	
Ammonia										
Arsenic and Compounds (Inorganic)		5.03E-05	5.03E-05				5.03E-05	5.03E-05		
Cadmium and Compounds										
Chlorine				8.41E-06					8.41E-06	
Copper and Compounds									1.28E-06	
Lead and Compounds (Inorganic)										
Manganese and Compounds										
Mercury and Compounds (Inorganic)			1.38E-05				1.38E-05	1.38E-05		
Nickel and Compounds						1.76E-04				
Selenium and Compounds										
Vanadium (Fume or Dust)				4.65E-06					4.65E-06	
1,3-Butadiene			4.38E-08					4.38E-08		
Acetaldehyde				2.28E-07					2.28E-07	
Acrolein				6.76E-08					6.76E-08	
Benzene			1.72E-05		1.72E-05	1.72E-05		1.72E-05		
Ethyl Benzene										
Formaldehyde				4.65E-06						
Methanol							3.92E-06			
Methyl Ethyl Ketone (2-Butanone)				1.21E-05					1.21E-05	
Methyl Tertiary-Butyl Ether										
m-Xylene				1.23E-08			1.23E-08		1.23E-08	
Naphthalene										
n-Hexane										
o-Xylene				3.43E-08			3.43E-08		3.43E-08	
Propylene (Propene)										
p-Xylene				6.47E-09			6.47E-09		6.47E-09	
Styrene			1.24E-09	1.24E-09				1.24E-09	1.24E-09	
Toluene			4.00E-06	4.00E-06			4.00E-06	4.00E-06	4.00E-06	
Isopropyl Alcohol (Isopropanol)				1.44E-04					1.44E-04	
Ethylene Glycol										
n,n-Dimethyl Formamide										
Ethylene Glycol Ethyl Ether Acetate – EGEE			2.61E-04				2.61E-04	2.61E-04		
Xylenes (Mixed Isomers)				3.39E-06			3.39E-06		3.39E-06	
Total		5.03E-05	3.47E-04	1.82E-04	1.72E-05	1.93E-04	3.37E-04	3.47E-04	1.78E-04	

6a. Hazard Index Acute - Worker

A/N: _____

Application deemed complete date: 04/08/22

HIA = [Q(lb/hr) * (X/Q)max Worker * MWAF] / Acute REL

Compound	HIA - Commercial									
	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines				4.13E-08					4.13E-08	
Ammonia										
Arsenic and Compounds (Inorganic)		5.03E-05	5.03E-05				5.03E-05	5.03E-05		
Cadmium and Compounds										
Chlorine				8.41E-06					8.41E-06	
Copper and Compounds									1.28E-06	
Lead and Compounds (Inorganic)										
Manganese and Compounds										
Mercury and Compounds (Inorganic)			1.38E-05				1.38E-05	1.38E-05		
Nickel and Compounds						1.76E-04				
Selenium and Compounds										
Vanadium (Fume or Dust)				4.65E-06					4.65E-06	
1,3-Butadiene			4.38E-08					4.38E-08		
Acetaldehyde				2.28E-07					2.28E-07	
Acrolein				6.76E-08					6.76E-08	
Benzene			1.72E-05		1.72E-05	1.72E-05		1.72E-05		
Ethyl Benzene										
Formaldehyde				4.65E-06						
Methanol							3.92E-06			
Methyl Ethyl Ketone (2-Butanone)				1.21E-05					1.21E-05	
Methyl Tertiary-Butyl Ether										
m-Xylene				1.23E-08			1.23E-08		1.23E-08	
Naphthalene										
n-Hexane										
o-Xylene				3.43E-08			3.43E-08		3.43E-08	
Propylene (Propene)										
p-Xylene				6.47E-09			6.47E-09		6.47E-09	
Styrene			1.24E-09	1.24E-09				1.24E-09	1.24E-09	
Toluene			4.00E-06	4.00E-06			4.00E-06	4.00E-06	4.00E-06	
Isopropyl Alcohol (Isopropanol)				1.44E-04					1.44E-04	
Ethylene Glycol										
n,n-Dimethyl Formamide										
Ethylene Glycol Ethyl Ether Acetate - EGEE			2.61E-04				2.61E-04	2.61E-04		
Xylenes (Mixed Isomers)				3.39E-06			3.39E-06		3.39E-06	
Total		5.03E-05	3.47E-04	1.82E-04	1.72E-05	1.93E-04	3.37E-04	3.47E-04	1.78E-04	

A/N: _____

Application deemed complete date: 04/08/22

6b. Hazard Index Chronic - Resident

HIC = [Q(ton/yr) * (X/Q) Resident * MP Chronic Resident * MWAFF] / Chronic REL

Compound	HIC - Residential												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines												1.05E-03	
Ammonia												4.24E-09	
Arsenic and Compounds (Inorganic)			3.79E-04	3.79E-04						3.79E-04	3.79E-04	3.79E-04	3.79E-04
Cadmium and Compounds									1.00E-05			1.00E-05	
Chlorine												5.66E-05	
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										3.52E-05			
Mercury and Compounds (Inorganic)				6.85E-06					6.85E-06	6.85E-06	6.85E-06		
Nickel and Compounds				1.61E-05			1.61E-05				1.61E-05	1.61E-05	
Selenium and Compounds	8.81E-08		8.81E-08							8.81E-08			
Vanadium (Fume or Dust)													
1,3-Butadiene				9.28E-08							9.28E-08		
Acetaldehyde												4.92E-09	
Acrolein												3.10E-09	
Benzene							9.92E-07						
Ethyl Benzene	3.90E-07			3.90E-07	3.90E-07				3.90E-07		3.90E-07		
Formaldehyde												1.83E-07	
Methanol				1.76E-07							1.76E-07		
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether	4.47E-11					4.47E-11			4.47E-11				
m-Xylene						2.48E-09				2.48E-09		2.48E-09	
Naphthalene												3.13E-08	
n-Hexane										5.34E-07			
o-Xylene						6.92E-09				6.92E-09		6.92E-09	
Propylene (Propene)												5.60E-10	
p-Xylene						1.31E-09				1.31E-09		1.31E-09	
Styrene										1.86E-10			
Toluene				3.16E-06						3.16E-06	3.16E-06	3.16E-06	
Isopropyl Alcohol (Isopropanol)				4.23E-07					4.23E-07		4.23E-07		
Ethylene Glycol				2.71E-07					2.71E-07		2.71E-07		
n,n-Dimethyl Formamide	1.13E-06											1.13E-06	
Ethylene Glycol Ethyl Ether Acetate - EGEE				7.83E-07			7.83E-07				7.83E-07		
Xylenes (Mixed Isomers)						6.83E-07				6.83E-07		6.83E-07	
Total	1.61E-06		3.79E-04	4.07E-04	3.90E-07	6.94E-07	1.79E-05		1.80E-05	4.26E-04	4.07E-04	1.52E-03	3.79E-04

A/N: _____

Application deemed complete date: 04/08/22

6b. Hazard Index Chronic - Worker

HIC = [Q(ton/yr) * (X/Q) * MP Chronic Worker * MWAFF] / Chronic REL

Compound	HIC - Commercial												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines												1.05E-03	
Ammonia												4.24E-09	
Arsenic and Compounds (Inorganic)			1.22E-04	1.22E-04						1.22E-04	1.22E-04	1.22E-04	1.22E-04
Cadmium and Compounds									6.10E-06			6.10E-06	
Chlorine												5.66E-05	
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										3.52E-05			
Mercury and Compounds (Inorganic)				3.74E-06					3.74E-06	3.74E-06	3.74E-06		
Nickel and Compounds				1.61E-05			1.61E-05				1.61E-05	1.61E-05	
Selenium and Compounds	1.07E-08		1.07E-08							1.07E-08			
Vanadium (Fume or Dust)													
1,3-Butadiene				9.28E-08							9.28E-08		
Acetaldehyde												4.92E-09	
Acrolein												3.10E-09	
Benzene							9.92E-07						
Ethyl Benzene	3.90E-07			3.90E-07	3.90E-07				3.90E-07		3.90E-07		
Formaldehyde												1.83E-07	
Methanol				1.76E-07							1.76E-07		
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether	4.47E-11					4.47E-11			4.47E-11				
m-Xylene						2.48E-09				2.48E-09		2.48E-09	
Naphthalene												3.13E-08	
n-Hexane										5.34E-07			
o-Xylene						6.92E-09				6.92E-09		6.92E-09	
Propylene (Propene)												5.60E-10	
p-Xylene						1.31E-09				1.31E-09		1.31E-09	
Styrene										1.86E-10			
Toluene				3.16E-06						3.16E-06	3.16E-06	3.16E-06	
Isopropyl Alcohol (Isopropanol)				4.23E-07					4.23E-07		4.23E-07		
Ethylene Glycol				2.71E-07					2.71E-07		2.71E-07		
n,n-Dimethyl Formamide	1.13E-06											1.13E-06	
Ethylene Glycol Ethyl Ether Acetate – EGEE				7.83E-07			7.83E-07				7.83E-07		
Xylenes (Mixed Isomers)						6.83E-07				6.83E-07		6.83E-07	
Total	1.53E-06		1.22E-04	1.47E-04	3.90E-07	6.94E-07	1.79E-05		1.09E-05	1.66E-04	1.47E-04	1.26E-03	1.22E-04

6c. 8-hour Hazard Index Chronic - Resident

A/N: _____

Application deemed complete date: 04/08/22

HIC 8-hr = [Q(ton/yr) * (X/Q) Resident * WAF Resident * MWAF] / 8-hr Chronic REL

Compound	HIC - Residential													
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN	
Particulate Emissions from Diesel-Fueled Engines														
Ammonia														
Arsenic and Compounds (Inorganic)			4.31E-06	4.31E-06						4.31E-06	4.31E-06	4.31E-06	4.31E-06	
Cadmium and Compounds														
Chlorine														
Copper and Compounds														
Lead and Compounds (Inorganic)														
Manganese and Compounds										1.87E-05				
Mercury and Compounds (Inorganic)				8.88E-07					8.88E-07	8.88E-07	8.88E-07			
Nickel and Compounds								3.76E-06				3.76E-06		
Selenium and Compounds														
Vanadium (Fume or Dust)														
1,3-Butadiene				2.06E-08										
Acetaldehyde												2.29E-09		
Acrolein												1.55E-09		
Benzene							9.92E-07							
Ethyl Benzene														
Formaldehyde												1.83E-07		
Methanol														
Methyl Ethyl Ketone (2-Butanone)														
Methyl Tertiary-Butyl Ether														
m-Xylene														
Naphthalene														
n-Hexane														
o-Xylene														
Propylene (Propene)														
p-Xylene														
Styrene														
Toluene														
Isopropyl Alcohol (Isopropanol)														
Ethylene Glycol														
n,n-Dimethyl Formamide														
Ethylene Glycol Ethyl Ether Acetate - EGEE														
Xylenes (Mixed Isomers)														
Total			4.31E-06	5.22E-06			9.92E-07	3.76E-06	8.88E-07	2.39E-05	5.20E-06	8.25E-06	4.31E-06	

A/N: _____

Application deemed complete date: 04/08/22

6c. 8-hour Hazard Index Chronic - Worker

HIC 8-hr = [Q(ton/yr) * (X/Q) Worker * WAF Worker * MWAF] / 8-hr Chronic REL

Compound	HIC - Commercial												
	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Particulate Emissions from Diesel-Fueled Engines													
Ammonia													
Arsenic and Compounds (Inorganic)			1.81E-05	1.81E-05						1.81E-05	1.81E-05	1.81E-05	1.81E-05
Cadmium and Compounds													
Chlorine													
Copper and Compounds													
Lead and Compounds (Inorganic)													
Manganese and Compounds										7.83E-05			
Mercury and Compounds (Inorganic)				3.73E-06					3.73E-06	3.73E-06	3.73E-06		
Nickel and Compounds								1.58E-05				1.58E-05	
Selenium and Compounds													
Vanadium (Fume or Dust)													
1,3-Butadiene				8.66E-08									
Acetaldehyde												9.63E-09	
Acrolein												6.50E-09	
Benzene							4.16E-06						
Ethyl Benzene													
Formaldehyde												7.67E-07	
Methanol													
Methyl Ethyl Ketone (2-Butanone)													
Methyl Tertiary-Butyl Ether													
m-Xylene													
Naphthalene													
n-Hexane													
o-Xylene													
Propylene (Propene)													
p-Xylene													
Styrene													
Toluene													
Isopropyl Alcohol (Isopropanol)													
Ethylene Glycol													
n,n-Dimethyl Formamide													
Ethylene Glycol Ethyl Ether Acetate – EGEE													
Xylenes (Mixed Isomers)													
Total			1.81E-05	2.19E-05			4.16E-06	1.58E-05	3.73E-06	1.00E-04	2.18E-05	3.47E-05	1.81E-05

ATTACHMENT C – OPERATIONAL EMISSION CALCULATIONS

Infrastructure	Criteria Emissions/Energy Consumptions	Reference
Parking Lot Lighting	140 kWh/space-yr	CalEEMod
Parking Lot Area ROG	0.0000326 ton/space-yr	CalEEMod
Evaporative Loss	0.004145734 g/hr	EMFAC2017 VMT-weighted LDA+LDT1+LDT2
Average Time Parked	10 hours/space-day	Professional Judgement

Operational Criteria Pollutant Emissions			Alternative 1 - Washington	Alternative 2 - Atlantic to Citadel IOS	Alternative 3 - Atlantic to Greenwood IOS
ROG emissions from parking area maintenance, incl. restriping, landscaping, and cleaning (pounds per day)	Atlantic Blvd	<i>no new spaces</i>	--	--	--
	Whittier Blvd	<i>no new spaces</i>	--	--	--
	Commerce/Citadel	<i>no new spaces</i>	--	--	--
	Greenwood Ave	<i>270 - 370 new spaces</i>	0.066	--	0.066
	Rosemead Blvd	<i>300 - 410 new spaces</i>	0.073	--	--
	Norwalk Blvd	<i>380 - 390 new spaces</i>	0.070	--	--
	Lambert Rd	<i>470 - 650 new spaces</i>	0.12	--	--
Evaporative ROG emissions from parked vehicles (pounds per day)	Atlantic Blvd	<i>no new spaces</i>	--	--	--
	Whittier Blvd	<i>no new spaces</i>	--	--	--
	Commerce/Citadel	<i>no new spaces</i>	--	--	--
	Greenwood Ave	<i>270 - 370 new spaces</i>	0.03	--	0.03
	Rosemead Blvd	<i>300 - 410 new spaces</i>	0.04	--	--
	Norwalk Blvd	<i>380 - 390 new spaces</i>	0.04	--	--
	Lambert Rd	<i>470 - 650 new spaces</i>	0.06	--	--
	Total ROG Emissions (pounds per day)		0.49	--	0.10

Infrastructure	Criteria Emissions/Energy Consumptions	
Commerce MSF Yard	868,444	sqft
Montebello MSF Yard	1,129,805	sqft
Both MSF Bldg Footprint	177,000	sqft

Operational Criteria Pollutant Emissions		Alternative 1 - Washington	Alternative 2 - Atlantic to Citadel IOS	Alternative 3 - Atlantic to Greenwood IOS
Commerce MSF Option	ROG	3.96	3.96	3.96
Criteria Pollutant	NO _x	0.04	0.04	0.04
Emissions	CO	0.03	0.03	0.03
(pounds per day)	SO ₂	< 0.01	< 0.01	< 0.01
	PM ₁₀	< 0.01	< 0.01	< 0.01
	PM _{2.5}	< 0.01	< 0.01	< 0.01
Montebello MSF Option	ROG	3.96	--	3.96
Criteria Pollutant	NO _x	0.04	--	0.04
Emissions	CO	0.03	--	0.03
(pounds per day)	SO ₂	< 0.01	--	< 0.01
	PM ₁₀	< 0.01	--	< 0.01
	PM _{2.5}	< 0.01	--	< 0.01

Eastside Transit Corridor Phase 2 - Daily Highway Traffic Data

			Alt1	Alt2	Alt3
	2017	2042	2042	2042	2042
	Existing	No Build	Washington to	Washington to	Washington to
	Conditions		Lambert	Commerce IOS	Rosemead IOS
Regional					
Vehicle Miles Traveled (VMT)	475,761,000	584,046,000	584,036,000	584,041,000	584,038,000
Vehicle Hours Traveled (VHT)	14,414,000	19,474,000	19,472,000	19,473,000	19,473,000
Average Vehicle Speed (mph)	33	30	30	30	30
AM Peak Vehicle Trips	8,298,500	9,821,900	9,820,429	9,821,010	9,820,614
PM Peak Vehicle Trips	11,113,200	13,109,253	13,107,629	13,108,241	13,107,833
Project Area					
VMT	12,070,000	13,231,000	13,221,000	13,226,000	13,223,000
VHT	410,000	483,000	481,000	482,000	482,000
Average Vehicle Speed (mph)	29	27	27	27	27
AM Peak VMT	2,612,000	2,846,000	2,846,215	2,846,000	2,846,000
AM Peak VHT	115,000	138,000	138,000	138,000	138,000
AM Peak Average Speed (mph)	23	21	21	21	21
AM Peak Vehicle Trips	278,100	295,400	294,200	295,100	294,800
PM Peak VMT	3,255,000	3,545,000	3,541,000	3,541,400	3,539,200
PM Peak VHT	130,000	154,000	154,000	154,000	154,000
PM Peak Average Speed (mph)	25	23	23	23	23
PM Peak Vehicle Trips	367,100	388,300	386,900	387,900	387,600

318 day annualization

Alt1 - NoBuild Alt 2 - NoBuild Alt 3 - NoBuild

Annual VMT Reductions

-3,180,000 -1,590,000 -2,544,000

Calendar Year	Regional Highway Vehicle Emission Factors (g/mile)														
	ROG	TOG	CO	NOx	SOx	PM10 Emissions					PM2.5 Emissions				
						PM10 Total	PM10 Exhaust	PM10 Tire Wear	PM10 Brake	Paved Road Dust	PM2.5 Total	PM2.5 Exhaust	PM2.5 Tire Wear	PM2.5 Brake	Paved Road Dust
2017	0.097	0.120	1.891	0.353	0.004	0.349	0.005	0.009	0.040	0.294	0.098	0.005	0.002	0.017	0.074
2042	0.027	0.034	0.781	0.120	0.002	0.346	0.001	0.009	0.042	0.294	0.095	0.001	0.002	0.018	0.074

Note:

Default EMFAC2017 fleet mix for all vehicle classes and fuel type used.

Assumed geographic area of the Los Angeles sub-area of the SCAB.

Assumed vehicle speed bin of 35 miles per hour (mph) in 2017 based on average regional speed of 33 mph.

Assumed vehicle speed bin of 30 miles per hour (mph) in 2042 based on average regional speed of 30 mph.

Emission Factors for Fuel Evaporation from Parked Vehicles

Calendar Year	Regional Parked Vehicle Emission Factors (g/hour parked)		
	ROG	ROG	ROG
2017	0.016	0.019	0.017
2042	0.004	0.004	0.004

CalEEMod Version: CalEEMod.2020.4.0

Date: 7/13/2021 12:25 PM

Station, Aerial Lighting & Elevators/Escalators - Los Angeles-South Coast County, Annual

Station, Aerial Lighting & Elevators/Escalators
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	13.80	1000sqft	0.32	13,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - OPERATIONS ONLY

Land Use - Station assumed to be 300 feet long with two, 23-foot wide platforms

2.0 Emissions Summary

2.2 Overall Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Energy	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.7479	4.7479	4.0000e-004	5.0000e-005	4.7724

5.0 Energy Detail

Historical Energy Use: N

5.2 Energy by Land Use - NaturalGas

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Unenclosed Parking with Elevator	26772	4.7479	4.0000e-004	5.0000e-005	4.7724
Total		4.7479	4.0000e-004	5.0000e-005	4.7724

CalEEMod Version: CalEEMod.2020.4.0

Date: 7/13/2021 12:24 PM

Station, At-Grade Lighting & Elevators/Escalators - Los Angeles-South Coast County, Annual

Station, At-Grade Lighting & Elevators/Escalators
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	13.80	1000sqft	0.32	13,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - OPERATIONS ONLY

Land Use - Station assumed to be 300 feet long with two, 23-foot wide platforms

2.0 Emissions Summary

2.2 Overall Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Energy	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.2829	4.2829	3.6000e-004	4.0000e-005	4.3050

5.0 Energy Detail

Historical Energy Use: N

5.2 Energy by Land Use - NaturalGas

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Unenclosed Parking Structure	24150	4.2829	3.6000e-004	4.0000e-005	4.3050
Total		4.2829	3.6000e-004	4.0000e-005	4.3050

CalEEMod Version: CalEEMod.2020.4.0

Date: 7/13/2021 12:20 PM

Station, Underground Lighting & Elevators/Escalators - Los Angeles-South Coast County, Annual

Station, Underground Lighting & Elevators/Escalators
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	13.80	1000sqft	0.32	13,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - OPERATIONS ONLY

Land Use - Station assumed to be 300 feet long with two, 23-foot wide platforms

2.0 Emissions Summary

2.2 Overall Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Energy	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	13.3137	13.3137	1.1200e-003	1.4000e-004	13.3824

5.0 Energy Detail

Historical Energy Use: N

5.2 Energy by Land Use - NaturalGas

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Enclosed Parking with Elevator	75072	13.3137	1.1200e-003	1.4000e-004	13.3824
Total		13.3137	1.1200e-003	1.4000e-004	13.3824

CalEEMod Version: CalEEMod.2020.4.0

Date: 7/13/2021 12:44 PM

Parking Lot - Los Angeles-South Coast County, Annual

Parking Lot
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	500.00	Space	4.50	200,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - OPERATIONS ONLY

2.0 Emissions Summary

2.2 Overall Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	0.0163	6.0000e-005	6.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0124	0.0124	3.0000e-005	0.0000	0.0132
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	12.4142	12.4142	1.0500e-003	1.3000e-004	12.4782
Total	0.0163	6.0000e-005	6.3700e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005	0.0000	12.4266	12.4266	1.0800e-003	1.3000e-004	12.4915

5.0 Energy Detail

Historical Energy Use: N

5.2 Energy by Land Use - NaturalGas

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Parking Lot	70000	12.4142	1.0500e-003	1.3000e-004	12.4782
Total		12.4142	1.0500e-003	1.3000e-004	12.4782

CalEEMod Version: CalEEMod.2020.4.0

Date: 7/13/2021 12:44 PM

Parking Lot - Los Angeles-South Coast County, Annual

6.0 Area Detail

6.2 Area by SubCategory

	ROC	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	2.7800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.9000e-004	6.0000e-005	6.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0124	0.0124	3.0000e-005	0.0000	0.0132	
Total	0.0163	6.0000e-005	6.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0124	0.0124	3.0000e-005	0.0000	0.0132	

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 10:12 AM

MSF - facility only - Los Angeles-South Coast County, Annual

MSF - facility only
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-Rail	177.00	1000sqft	4.06	177,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CONSTRUCTION & OPERATION

Land Use - land-use info based on ACE site drawings

2.0 Emissions Summary

2.2 Overall Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	0.7218	2.2000e-005	2.2500e-003	0.0000		1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	4.3900e-003	4.3900e-003	1.0000e-005	0.0000	4.6800e-003
Energy	8.20E-04	7.4600e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004	5.7000e-004	5.7000e-004	5.7000e-004	0.0000	128.3474	128.3474	0.0103	1.3800e-003	129.0159
Water						0.0000	0.0000	0.0000	0.0000	0.0000	12.9856	94.5191	107.5047	1.3417	0.0325	150.7208
Total	7.23E-01	7.4600e-003	6.2700e-003	4.0000e-005	0	0.00057	0.00057	0	0.00057	0.00057	12.9856	222.8665	235.8521	1.352	0.03388	279.7367

Notes:

- MSF operations would not require landscaping;
- Vehicle trips are already accounted for in regional traffic modeling;
- Warehouse waste generation parameters are inappropriate for MSF, actual waste generation would be immaterial;
- Warehouse water demand likely excessive for MSF, but included nonetheless

5.0 Energy Detail

Historical Energy Use: N

5.2 Energy by Land Use - NaturalGas

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	kBTU/yr	tons/yr										MT/yr					
Unrefrigerated Warehouse-Rail	152220	8.2000e-004	7.4600e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1230	8.1230	1.6000e-004	1.5000e-004	8.1713
Total		8.2000e-004	7.4600e-003	6.2700e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1230	8.1230	1.6000e-004	1.5000e-004	8.1713

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/29/2022 10:12 AM

MSF - facility only - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Unrefrigerated Warehouse-Rail	677910	120.2243	0.0102	1.2300e-003	120.8445
Total		120.2243	0.0102	1.2300e-003	120.8445

6.0 Area Detail

6.2 Area by SubCategory

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr											MT/yr					
Architectural Coating	0.0820					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6396					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.7218	2.0000e-005	2.2500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3900e-003	4.3900e-003	1.0000e-005	0.0000	4.6800e-003

7.0 Water Detail

7.2 Water by Land Use

Land Use	Indoor/Outdoor Use Mgal	Total CO2	CH4	N2O	CO2e
		MT/yr			
Unrefrigerated Warehouse-Rail	40.9312 / 0	107.5047	1.3417	0.0325	150.7208
Total		107.5047	1.3417	0.0325	150.7208

ATTACHMENT D – CO HOT SPOTS CALCULATIONS

	Location	Peak Daily Traffic Count
Existing Conditions		
	First High Rosemead Blvd / Washington Blvd	5,135
	Second High Paramount Blvd / Washington Blvd	5,089
No Build (2042)		
	First High Pioneer Blvd / Washington Blvd	6,096
	Second High Norwalk Blvd / Washington Blvd	6,013
Alternative 1, 2, 3 (2042)		
	First High Pioneer Blvd / Washington Blvd	6,070
	Second High Norwalk Blvd / Washington Blvd	6,046

Note: Ryan Winn (AECOM) confirmed that, although the total annual VMT reductions from Alternatives 1, 2, and 3 would vary, these alternatives would serve the same area. Since the traffic model is calibrated to localized growth parameters, the peak hour traffic volumes would not differ between the alternatives.

TOTAL VEHICLES

Existing (2019) AM Intersection	Northbound			Southbound			Eastbound			Westbound			Total	Truck %
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right		
1 Atlantic Blvd & 1st St/ SR-60 WB Ramps	303	1071	0	0	1212	78	42	0	225	292	268	268	3759	2%
101 Atlantic Blvd / SR-60 WB On-Ramps	0	1374	485	0	1362	367	0	0	0	0	0	0		
201 Atlantic Blvd / SR-60 EB On-Ramps	0	1859	383	0	886	476	0	0	0	0	0	0		
2 Atlantic Blvd / SR-60 EB Ramps	0	1735	0	0	886	0	507	0	725	0	0	0	3853	2%
3 Atlantic Blvd / Pomona Blvd	40	1188	22	131	988	146	165	79	16	118	143	382	3418	2%
4 Atlantic Blvd / Beverly Blvd	58	744	69	154	949	32	19	302	70	125	590	228	3340	4%
5 Woods Ave / Beverly Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
6 Atlantic Blvd / 4th St	86	912	23	41	1077	112	68	98	46	46	116	20	2645	4%
7 Atlantic Blvd / Eagle St	14	866	35	27	1062	80	64	66	33	49	36	113	2445	4%
8 Atlantic Blvd / 6th St	58	793	41	86	916	108	81	66	61	51	58	81	2400	1%
9 Atlantic Blvd / Hubbard St	51	719	36	71	892	60	98	91	74	59	72	72	2295	1%
10 Atlantic Blvd / Whittier Blvd	73	527	19	35	875	48	56	319	28	87	684	25	2776	1%
11 Atlantic Blvd / Verona St	17	643	5	30	881	33	38	38	21	34	24	36	1800	1%
12 Atlantic Blvd / Olympic Blvd	47	487	27	86	717	123	85	519	82	85	805	68	3131	1%
13 Atlantic Blvd / Union Pacific Ave	40	486	2	16	823	30	58	44	61	128	68	28	1784	1%
14 Atlantic Blvd / Telegraph Rd/ Ferguson Dr	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
15 Hillview Ave / Pomona Blvd	228	15	29	7	3	16	17	164	26	52	326	25	908	2%
16 Hillview Ave / Beverly Blvd	30	67	57	14	69	24	25	406	25	73	926	36	1752	4%
17 Hoefner Ave / Flotilla St	18	0	71	0	0	0	0	192	12	47	125	0	465	15%
18 Tubeway Ave / Smithway St	95	119	0	0	121	113	24	0	42	0	0	0	514	15%
19 Gayhart St / Washingotn Blvd	2	0	1	11	0	82	97	815	1	0	1385	78	2472	9%
20 Gerhart Ave / Pomona Blvd	91	577	0	0	201	82	0	0	0	125	266	82	1424	2%
21 Gerhart Ave / Pomona Blvd / Via Campo	0	591	75	35	291	0	77	110	20	0	0	0	1199	2%
22 Findlay Ave / Pomona Blvd	170	207	0	0	85	68	0	0	0	85	525	69	1209	2%
23 Garfield Ave / Pomona Blvd	644	427	0	0	668	360	0	0	0	122	930	152	3303	2%
24 Garfield Ave / Via Campo	0	489	124	168	622	0	137	744	468	26	0	445	3223	2%
25 Wilcox Ave / Pomona Blvd	309	401	0	0	313	28	0	0	0	403	893	67	2414	2%
26 Wilcox Ave / Via Campo	357	625	162	122	558	36	57	701	248	13	37	28	2944	2%
27 Fulton Ave / Pomona Blvd	0	0	0	0	0	23	0	0	0	0	1331	6	1360	2%
28 Garfield Ave / Washington Blvd	55	449	22	180	683	284	150	630	32	49	1115	142	3791	9%
29 Yates Ave / Washington Blvd	10	61	149	5	51	20	64	704	64	211	1276	23	2638	9%
30 Vail Ave / Washington Blvd	33	124	48	100	147	81	126	610	55	119	1423	286	3152	9%
31 Maple Ave / Washington Blvd	26	41	32	67	56	104	66	694	32	41	1683	87	2929	8%
32 Greenwood Ave / Washington Blvd	68	445	67	87	618	169	117	576	92	130	1616	116	4101	8%
33 Montebello Blvd / Washington Blvd	52	112	36	81	81	66	19	675	32	35	1767	71	3027	8%
34 Bluff Road / Washington Blvd	20	37	70	250	54	59	20	744	13	78	1845	259	3449	6%

35	Paramount Blvd / Washington Blvd	473	478	101	113	604	257	109	720	231	94	1466	44	4690	6%
36	Crossway Dr / Washington Blvd	48	11	39	86	20	20	21	878	26	95	1597	41	2882	6%
37	Rosemead Blvd / Washington Blvd	221	689	243	185	737	115	106	704	173	237	1402	85	4897	5%
38	Passons Blvd / Washington Blvd	47	365	72	308	423	131	138	955	51	113	1379	89	4071	5%
39	Pioneer Blvd / Washington Blvd	190	216	298	187	314	421	79	825	347	203	1508	123	4711	5%
40	Norwalk Blvd / Washington Blvd	226	478	26	217	677	253	140	1018	336	70	1350	113	4904	4%
41	Norwalk Blvd / Broadway	0	700	262	0	959	0	0	0	0	388	0	30	2339	4%
42	Broadway / Washington Blvd	40	130	90	113	242	242	113	1116	45	60	1248	70	3509	4%
43	Sorensen Ave / Washington Blvd	189	321	87	177	576	119	44	804	266	62	1185	170	4000	4%
44	Lambert Rd / Washington Blvd	754	191	95	17	70	18	48	437	404	66	672	41	2813	3%
45	Lambert Rd / Santa Fe Springs Rd	313	943	273	9	478	82	118	408	92	193	620	33	3562	3%
46	Putnam St / Washington Blvd	7	74	3	14	23	66	100	448	5	14	690	42	1486	3%
47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	3%
48	Potrero Grande Dr/Pomona blvd/SR-60 WB Off Ramps	65	119	539	146	225	5	20	123	84	243	537	110	2216	2%
49	Paramount Blvd/SR-60 WB Ramps/Neil Armstrong St	156	498	260	0	969	70	52	0	321	198	133	78	2735	2%
491	SB Paramount Blvd / SR-60 WB On-Ramp	0	914	0	0	1073	415	0	0	0	0	0	0		
501	NB Paramount Blvd / SR-60 EB On-Ramp	0	914	269	0	1073	0	0	0	0	0	0	0		
50	Paramount Blvd/SR-60 EB Ramps/ Town Center Dr	0	925	6	62	563	448	235	43	214	0	0	23	2519	2%
51	Paramount blvd / Montebello Blvd	1	2	0	50	10	717	844	162	1	1	145	85	2018	2%
52	Montebello Town Ctr / Montebello Blvd	0	0	0	0	0	36	64	148	0	0	195	33	476	2%
53	Montebello Blvd / Montebello Town Ctr / SR-60 EB Ramps	0	56	76	303	10	6	4	29	5	84	52	568	1193	2%
54	Plaza Dr / Montebello Blvd	155	15	11	3	7	2	1	99	47	8	69	7	424	2%
55	Walnut Grove Ave / San Gabriel Blvd	0	832	872	50	682	7	4	4	4	446	10	55	2966	2%
56	San Gabriel Blvd / SR-60 WB Ramps	31	929	235	122	1010	1	7	5	20	84	6	768	3218	2%
57	San Gabriel Blvd / Montebello Town Center	13	882	26	90	354	670	235	34	139	15	21	78	2557	2%
58	San Gabriel Blvd / Plaza Dr	171	919	0	0	467	10	3	0	59	0	0	0	1629	2%
59	Merced Ave/ SR-60 WB Ramps/ Santa Anita Ave	256	636	44	38	1116	20	29	17	607	29	275	130	3197	3%
591	SB Santa Anita Ave / SR-60 WB On-Ramp	0	936	0	0	1205	547	0	0	0	0	0	0		
601	Santa Anita Ave / SR-60 EB On-Ramp	0	936	52	0	466	746	0	0	0	0	0	0		
60	Santa Anita Ave / SR-60 EB Ramps	0	632	0	0	466	0	356	0	34	0	0	0	1488	3%
61	SR-60 EB Ramps / Durfee Ave	0	0	0	464	0	61	49	359	0	0	686	506	2125	4%
62	Peck Rd / Slack Rd	264	734	11	7	1340	82	102	17	325	35	42	10	2969	3%
63	Peck Rd / Farndon St	0	1006	14	13	1726	0	0	0	0	26	0	15	2800	3%
64	Peck Rd / SR-60 WB Ramps	0	832	0	0	1752	0	0	0	0	87	0	188	2859	3%
641	Peck Rd / SR-60 WB On-Ramp	0	832	329	0	1501	338	0	0	0	0	0	0		
65	Peck Rd / Durfee Ave	336	773	23	33	694	793	356	30	437	47	63	22	3607	4%

5	Woods Ave / Beverly Blvd	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NWL2	NWL	NWR	NWR2	TOTAL
		43	236	10	6	25	105	226	52	0	166	242	37	0	0	192	82	0	361	284	23	2090

14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	NBL2	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	WBR2	NER2	SWR2	TOTAL
		67	320	443	272	386	2	24	845	122	26	26	46	125	346	120	337	49	321	6	7	97	18	4005

47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	NBL2	NBL	NBT	NBR	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	WBL	WBT	WBR	WBR2	SEL2	SEL	SER	SER2	TOTAL
		2	209	308	134	39	363	74	2	28	75	288	9	110	527	655	126	0	433	230	37	3649

TOTAL VEHICLES

Existing (2019) PM Intersection	Northbound			Southbound			Eastbound			Westbound			Total	Truck %
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right		
1 Atlantic Blvd & 1st St/ SR-60 WB Ramps	95	952	0	0	1272	85	229	0	395	201	168	272	3669	2%
101 Atlantic Blvd / SR-60 WB On-Ramps	0	1047	396	0	1451	417	0	0	0	0	0	0		
201 Atlantic Blvd / SR-60 EB On-Ramps	0	1442	225	0	1017	434	0	0	0	0	0	0		
2 Atlantic Blvd / SR-60 EB Ramps	0	1183	0	0	1017	0	485	0	624	0	0	0	3309	2%
3 Atlantic Blvd / Pomona Blvd	35	854	62	275	1267	99	152	196	16	80	85	177	3298	2%
4 Atlantic Blvd / Beverly Blvd	64	807	100	373	822	17	30	870	73	97	290	145	3688	2%
5 Woods Ave / Beverly Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0	2%
6 Atlantic Blvd / 4th St	49	1001	8	31	975	67	60	93	42	15	41	31	2413	2%
7 Atlantic Blvd / Eagle St	9	990	19	21	965	25	47	37	30	28	24	53	2248	2%
8 Atlantic Blvd / 6th St	57	891	22	65	934	73	67	132	64	37	57	52	2451	1%
9 Atlantic Blvd / Hubbard St	39	855	39	60	901	46	58	227	123	35	86	100	2569	1%
10 Atlantic Blvd / Whittier Blvd	55	351	19	21	845	42	33	235	22	44	632	2	2301	1%
11 Atlantic Blvd / Verona St	39	722	16	81	873	64	58	191	61	35	68	39	2247	1%
12 Atlantic Blvd / Olympic Blvd	65	575	56	155	680	119	102	1235	112	66	618	99	3882	1%
13 Atlantic Blvd / Union Pacific Ave	34	622	19	35	808	31	32	213	33	67	69	36	1999	1%
14 Atlantic Blvd / Telegraph Rd/ Ferguson Dr	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
15 Hillview Ave / Pomona Blvd	81	4	40	12	5	27	9	390	49	67	264	5	953	2%
16 Hillview Ave / Beverly Blvd	16	73	112	28	66	10	16	1250	33	70	467	10	2151	2%
17 Hoefner Ave / Flotilla St	8	0	71	0	0	0	0	162	28	48	465	0	782	4%
18 Tubeway Ave / Smithway St	44	151	0	0	144	97	214	0	152	0	0	0	802	4%
19 Gayhart St / Washingotn Blvd	10	0	3	74	1	226	42	1068	0	0	1080	34	2538	6%
20 Gerhart Ave / Pomona Blvd	34	414	0	0	597	131	0	0	0	147	254	75	1652	2%
21 Gerhart Ave / Pomona Blvd / Via Campo	0	352	69	123	621	0	96	269	73	0	0	0	1603	2%
22 Findlay Ave / Pomona Blvd	124	325	0	0	147	27	0	0	0	155	418	27	1223	2%
23 Garfield Ave / Pomona Blvd	350	535	0	0	742	88	0	0	0	111	810	214	2850	2%
24 Garfield Ave / Via Campo	0	640	210	205	648	0	103	1005	497	32	0	142	3482	2%
25 Wilcox Ave / Pomona Blvd	245	336	0	0	418	10	0	0	0	425	905	138	2477	2%
26 Wilcox Ave / Via Campo	135	481	239	167	640	36	56	956	411	37	41	44	3243	2%
27 Fulton Ave / Pomona Blvd	0	0	0	0	0	19	0	0	0	0	1448	18	1485	2%
28 Garfield Ave / Washington Blvd	56	715	47	256	538	302	175	979	25	52	750	169	4064	6%
29 Yates Ave / Washington Blvd	66	76	311	30	61	121	27	1245	10	54	784	15	2800	6%
30 Vail Ave / Washington Blvd	39	140	67	167	250	137	180	1324	48	34	660	95	3141	6%
31 Maple Ave / Washington Blvd	28	53	65	69	54	84	64	1474	27	20	655	77	2670	6%
32 Greenwood Ave / Washington Blvd	69	540	81	138	873	97	211	1141	248	95	560	78	4131	6%
33 Montebello Blvd / Washington Blvd	30	52	18	78	60	43	57	1253	47	53	653	69	2413	6%
34 Bluff Road / Washington Blvd	8	51	107	476	36	36	44	1195	5	57	783	241	3039	4%

35	Paramount Blvd / Washington Blvd	348	781	162	145	800	85	153	1334	305	156	701	119	5089	4%
36	Crossway Dr / Washington Blvd	116	41	135	115	56	11	68	1481	55	213	874	57	3222	4%
37	Rosemead Blvd / Washington Blvd	155	698	265	233	815	133	233	1255	214	207	764	163	5135	3%
38	Passons Blvd / Washington Blvd	80	210	87	299	195	96	102	1546	71	125	1061	140	4012	3%
39	Pioneer Blvd / Washington Blvd	221	390	287	136	336	332	146	1218	452	159	1213	93	4983	3%
40	Norwalk Blvd / Washington Blvd	250	810	44	203	491	101	168	1130	307	96	1150	164	4914	3%
41	Norwalk Blvd / Broadway	0	1159	402	0	806	0	0	0	0	300	0	23	2690	3%
42	Broadway / Washington Blvd	75	268	83	88	172	154	166	1170	66	79	1210	88	3619	3%
43	Sorensen Ave / Washington Blvd	329	647	90	180	298	107	108	934	237	75	1017	185	4207	3%
44	Lambert Rd / Washington Blvd	555	74	77	39	186	43	33	619	591	127	634	37	3015	1%
45	Lambert Rd / Santa Fe Springs Rd	117	547	205	15	842	144	109	706	172	292	484	16	3649	1%
46	Putnam St / Washington Blvd	25	26	19	57	71	93	66	643	23	25	548	14	1610	1%
47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	1%
48	Potrero Grande Dr/Pomona blvd/SR-60 WB Off Ramps	23	66	742	282	180	6	50	52	190	413	516	132	2652	2%
49	Paramount Blvd/SR-60 WB Ramps/Neil Armstrong St	285	515	296	0	921	93	106	5	586	402	219	209	3637	1%
491	SB Paramount Blvd / SR-60 WB On-Ramp	0	1096	0	0	1630	279	0	0	0	0	0	0		
501	NB Paramount Blvd / SR-60 EB On-Ramp	0	1096	397	0	1630	0	0	0	0	0	0	0		
50	Paramount Blvd/SR-60 EB Ramps/ Town Center Dr	0	920	24	191	1016	423	326	250	292	12	0	247	3701	1%
51	Paramount blvd / Montebello Blvd	0	3	2	304	0	1016	872	537	0	0	310	69	3113	1%
52	Montebello Town Ctr / Montebello Blvd	0	0	0	14	0	129	135	708	0	0	250	6	1242	1%
53	Montebello Blvd / Montebello Town Ctr / SR-60 EB Ramps	7	188	218	139	13	3	89	208	17	192	137	455	1666	1%
54	Plaza Dr / Montebello Blvd	62	82	14	29	96	25	16	353	322	24	115	16	1154	1%
55	Walnut Grove Ave / San Gabriel Blvd	0	835	673	61	788	14	3	1	4	874	15	55	3323	1%
56	San Gabriel Blvd / SR-60 WB Ramps	40	537	101	157	1499	10	10	16	46	143	12	961	3532	1%
57	San Gabriel Blvd / Montebello Town Center	26	373	17	55	902	731	284	28	253	21	27	21	2738	1%
58	San Gabriel Blvd / Plaza Dr	144	384	0	0	1152	14	6	0	436	0	0	0	2136	1%
59	Merced Ave/ SR-60 WB Ramps/ Santa Anita Ave	127	559	52	34	1019	32	43	22	550	70	314	355	3177	2%
591	SB Santa Anita Ave / SR-60 WB On-Ramp	0	738	0	0	1131	508	0	0	0	0	0	0		
601	Santa Anita Ave / SR-60 EB On-Ramp	0	738	58	0	414	717	0	0	0	0	0	0		
60	Santa Anita Ave / SR-60 EB Ramps	0	455	0	0	414	0	341	0	30	0	0	0	1240	2%
61	SR-60 EB Ramps / Durfee Ave	0	0	0	275	0	27	287	759	0	0	300	560	2208	2%
62	Peck Rd / Slack Rd	224	1117	16	15	1355	84	122	19	317	21	17	14	3321	2%
63	Peck Rd / Farndon St	0	1342	31	20	1696	0	0	0	0	9	0	17	3115	2%
64	Peck Rd / SR-60 WB Ramps	0	836	0	0	1705	0	0	0	0	73	0	537	3151	2%
641	Peck Rd / SR-60 WB On-Ramp	0	836	277	0	1515	263	0	0	0	0	0	0		
65	Peck Rd / Durfee Ave	180	711	10	63	823	647	373	44	617	45	33	26	3572	2%

5	Woods Ave / Beverly Blvd	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NWL2	NWL	NWR	NWR2	TOTAL
		36	105	15	13	46	348	150	32	0	261	584	26	0	0	136	60	0	208	156	37	2213

14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	NBL2	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	WBR2	NER2	SWR2	TOTAL
		52	229	570	286	487	1	20	977	25	15	5	12	111	734	71	320	34	224	31	16	204	34	4458

47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	NBL2	NBL	NBT	NBR	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	WBL	WBT	WBR	WBR2	SEL2	SEL	SER	SER2	TOTAL
		2	224	401	256	81	360	61	14	58	126	524	13	93	411	587	114	0	573	238	27	4163

TOTAL VEHICLES

2042 NO BUILD AM		Northbound			Southbound			Eastbound			Westbound			Total	Truck %
Intersection		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right		
1	Atlantic Blvd & 1st St/ SR-60 WB Ramps	332	1174	0	0	1304	84	45	0	242	314	288	288	4071	2%
101	Atlantic Blvd / SR-60 WB On-Ramps	0	1506	532	0	1465	395	0	0	0	0	0	0		
201	Atlantic Blvd / SR-60 EB On-Ramps	0	2038	420	0	953	512	0	0	0	0	0	0		
2	Atlantic Blvd / SR-60 EB Ramps	0	1913	0	0	953	0	545	0	780	0	0	0	4191	2%
3	Atlantic Blvd / Pomona Blvd	44	1310	24	144	1089	161	182	87	18	130	158	421	3768	2%
4	Atlantic Blvd / Beverly Blvd	64	821	76	170	1047	35	21	333	77	138	651	251	3684	4%
5	Woods Ave / Beverly Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
6	Atlantic Blvd / 4th St	95	1006	25	45	1187	123	75	108	51	51	128	22	2916	4%
7	Atlantic Blvd / Eagle St	15	955	39	30	1171	88	71	73	37	54	40	124	2697	4%
8	Atlantic Blvd / 6th St	64	875	45	95	1010	119	89	73	67	56	64	89	2646	1%
9	Atlantic Blvd / Hubbard St	56	793	40	78	983	66	108	100	82	65	79	79	2529	1%
10	Atlantic Blvd / Whittier Blvd	81	582	21	39	965	53	62	352	31	96	755	28	3065	1%
11	Atlantic Blvd / Verona St	19	709	6	33	971	37	42	42	23	38	27	40	1987	1%
12	Atlantic Blvd / Olympic Blvd	52	537	30	95	791	136	94	573	91	94	887	75	3455	1%
13	Atlantic Blvd / Union Pacific Ave	44	536	2	18	907	33	64	48	67	141	75	31	1966	1%
14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
15	Hillview Ave / Pomona Blvd	246	16	31	8	3	17	18	176	28	56	350	27	976	2%
16	Hillview Ave / Beverly Blvd	32	72	61	15	74	26	27	436	27	79	996	39	1884	4%
17	Hoefner Ave / Flotilla St	20	0	78	0	0	0	0	212	13	52	138	0	513	15%
18	Tubeway Ave / Smithway St	105	131	0	0	133	125	27	0	47	0	0	0	568	15%
19	Gayhart St / Washingotn Blvd	2	0	1	12	0	91	107	900	1	0	1529	86	2729	9%
20	Gerhart Ave / Pomona Blvd	98	621	0	0	216	88	0	0	0	135	286	88	1532	2%
21	Gerhart Ave / Pomona Blvd / Via Campo	0	636	81	38	313	0	83	119	22	0	0	0	1292	2%
22	Findlay Ave / Pomona Blvd	183	223	0	0	92	73	0	0	0	91	565	74	1301	2%
23	Garfield Ave / Pomona Blvd	693	459	0	0	719	387	0	0	0	131	1000	164	3553	2%
24	Garfield Ave / Via Campo	0	526	133	181	669	0	147	800	503	28	0	479	3466	2%
25	Wilcox Ave / Pomona Blvd	333	431	0	0	337	30	0	0	0	433	960	72	2596	2%
26	Wilcox Ave / Via Campo	384	673	174	131	600	39	61	754	267	14	40	30	3167	2%
27	Fulton Ave / Pomona Blvd	0	0	0	0	0	25	0	0	0	0	1431	6	1462	2%
28	Garfield Ave / Washington Blvd	61	496	24	199	755	314	166	696	35	54	1231	157	4188	9%
29	Yates Ave / Washington Blvd	11	67	165	6	56	22	70	778	71	233	1409	25	2913	9%
30	Vail Ave / Washington Blvd	36	137	53	110	162	89	139	674	61	132	1572	316	3481	9%
31	Maple Ave / Washington Blvd	29	45	35	74	62	115	73	767	35	45	1858	96	3234	8%
32	Greenwood Ave / Washington Blvd	75	492	74	96	683	187	129	636	102	144	1785	128	4531	8%

33	Montebello Blvd / Washington Blvd	57	124	40	90	89	73	21	746	35	39	1952	78	3344	8%
34	Bluff Road / Washington Blvd	22	41	77	276	60	65	22	822	14	86	2038	286	3809	6%
35	Paramount Blvd / Washington Blvd	522	528	112	125	667	284	120	795	255	104	1619	49	5180	6%
36	Crossway Dr / Washington Blvd	53	12	43	95	22	22	23	965	29	104	1756	45	3169	6%
37	Rosemead Blvd / Washington Blvd	243	758	267	203	810	126	117	774	190	261	1542	94	5385	5%
38	Passons Blvd / Washington Blvd	52	401	79	339	465	144	152	1050	56	124	1516	98	4476	5%
39	Pioneer Blvd / Washington Blvd	219	250	344	216	362	486	91	952	400	234	1741	142	5437	5%
40	Norwalk Blvd / Washington Blvd	261	552	30	251	781	292	162	1175	388	81	1559	130	5662	4%
41	Norwalk Blvd / Broadway	0	808	302	0	1107	0	0	0	0	448	0	35	2700	4%
42	Broadway / Washington Blvd	46	150	104	130	280	279	130	1289	52	69	1441	81	4051	4%
43	Sorensen Ave / Washington Blvd	218	371	100	204	665	138	51	928	307	72	1368	196	4618	4%
44	Lambert Rd / Washington Blvd	871	220	110	20	81	21	55	505	466	76	776	47	3248	3%
45	Lambert Rd / Santa Fe Springs Rd	361	1089	316	10	552	95	136	471	106	223	716	38	4113	3%
46	Putnam St / Washington Blvd	8	85	3	16	26	76	115	517	6	16	796	48	1712	3%
47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	3%
48	Potrero Grande Dr/Pomona blvd/SR-60 WB Off Ramps	70	128	580	157	242	5	22	132	90	262	578	118	2384	2%
49	Paramount Blvd/SR-60 WB Ramps/Neil Armstrong St	168	535	280	0	1042	75	56	0	345	213	143	84	2941	2%
491	SB Paramount Blvd / SR-60 WB On-Ramp	0	983	0	0	1154	446	0	0	0	0	0	0		
501	NB Paramount Blvd / SR-60 EB On-Ramp	0	983	289	0	1154	0	0	0	0	0	0	0		
50	Paramount Blvd/SR-60 EB Ramps/ Town Center Dr	0	994	7	66	606	482	253	46	230	0	0	25	2709	2%
51	Paramount blvd / Montebello Blvd	1	2	0	54	11	771	908	174	1	1	156	91	2170	2%
52	Montebello Town Ctr / Montebello Blvd	0	0	0	0	0	39	69	159	0	0	209	35	511	2%
53	Montebello Blvd / Montebello Town Ctr / SR-60 EB Ramps	0	59	80	320	11	6	4	31	5	89	55	600	1260	2%
54	Plaza Dr / Montebello Blvd	164	16	11	3	8	2	1	104	49	8	73	7	446	2%
55	Walnut Grove Ave / San Gabriel Blvd	0	879	921	53	722	7	4	4	4	471	11	58	3134	2%
56	San Gabriel Blvd / SR-60 WB Ramps	33	982	248	129	1067	1	7	5	21	89	6	811	3399	2%
57	San Gabriel Blvd / Montebello Town Center	14	933	27	95	374	708	248	36	147	16	22	82	2702	2%
58	San Gabriel Blvd / Plaza Dr	180	971	0	0	494	11	3	0	62	0	0	0	1721	2%
59	Merced Ave/ SR-60 WB Ramps/ Santa Anita Ave	268	667	46	40	1178	21	31	18	637	30	289	136	3361	3%
591	SB Santa Anita Ave / SR-60 WB On-Ramp	0	981	0	0	1271	574	0	0	0	0	0	0		
601	Santa Anita Ave / SR-60 EB On-Ramp	0	981	55	0	489	782	0	0	0	0	0	0		
60	Santa Anita Ave / SR-60 EB Ramps	0	663	0	0	489	0	373	0	35	0	0	0	1560	3%
61	SR-60 EB Ramps / Durfee Ave	0	0	0	487	0	64	51	376	0	0	719	531	2228	4%
62	Peck Rd / Slack Rd	277	770	12	7	1405	86	107	18	341	37	44	10	3114	3%
63	Peck Rd / Farndon St	0	1055	15	13	1810	0	0	0	0	27	0	16	2936	3%
64	Peck Rd / SR-60 WB Ramps	0	873	0	0	1837	0	0	0	0	91	0	197	2998	3%
641	Peck Rd / SR-60 WB On-Ramp	0	873	345	0	1574	354	0	0	0	0	0	0		
65	Peck Rd / Durfee Ave	352	811	24	35	728	832	373	32	458	49	66	23	3783	4%

5	Woods Ave / Beverly Blvd	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NWL2	NWL	NWR	NWR2	TOTAL
		46	254	11	6	27	113	243	56	0	179	260	40	0	0	207	88	0	388	305	25	2248

14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	NBL2	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	WBR2	NER2	SWR2	TOTAL
		74	353	489	300	426	2	26	932	135	29	29	51	138	382	132	372	54	354	7	8	107	20	4420

47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	NBL2	NBL	NBT	NBR	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	WBL	WBT	WBR	WBR2	SEL2	SEL	SER	SER2	TOTAL
		2	241	356	155	45	419	85	2	32	87	332	10	127	608	756	145	0	500	266	43	4211

TOTAL VEHICLES

2042 NO BUILD PM		Northbound			Southbound			Eastbound			Westbound			Total	Truck %
Intersection		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right		
1	Atlantic Blvd & 1st St/ SR-60 WB Ramps	105	1048	0	0	1361	91	245	0	422	215	180	291	3958	2%
101	Atlantic Blvd / SR-60 WB On-Ramps	0	1153	435	0	1552	446	0	0	0	0	0	0		
201	Atlantic Blvd / SR-60 EB On-Ramps	0	1588	248	0	1088	464	0	0	0	0	0	0		
2	Atlantic Blvd / SR-60 EB Ramps	0	1317	0	0	1088	0	519	0	668	0	0	0	3592	2%
3	Atlantic Blvd / Pomona Blvd	39	951	69	307	1411	110	169	218	18	89	95	197	3673	2%
4	Atlantic Blvd / Beverly Blvd	71	899	112	415	915	19	33	969	81	108	323	162	4107	2%
5	Woods Ave / Beverly Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0	2%
6	Atlantic Blvd / 4th St	55	1115	9	35	1086	75	67	104	47	17	46	35	2691	2%
7	Atlantic Blvd / Eagle St	10	1103	21	23	1074	28	52	41	33	31	27	59	2502	2%
8	Atlantic Blvd / 6th St	63	992	24	72	1040	81	75	147	71	41	64	58	2728	1%
9	Atlantic Blvd / Hubbard St	43	952	43	67	1004	51	64	253	137	39	96	111	2860	1%
10	Atlantic Blvd / Whittier Blvd	61	391	21	23	941	47	37	262	25	49	704	2	2563	1%
11	Atlantic Blvd / Verona St	43	804	18	90	972	71	65	213	68	39	76	43	2502	1%
12	Atlantic Blvd / Olympic Blvd	72	640	62	173	758	132	114	1376	125	74	688	110	4324	1%
13	Atlantic Blvd / Union Pacific Ave	38	693	21	39	899	34	36	237	37	75	77	40	2226	1%
14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
15	Hillview Ave / Pomona Blvd	87	4	43	13	5	29	9	417	52	71	282	5	1017	2%
16	Hillview Ave / Beverly Blvd	17	78	120	30	71	11	17	1336	35	75	499	11	2300	2%
17	Hoefner Ave / Flotilla St	9	0	78	0	0	0	0	179	31	53	512	0	862	4%
18	Tubeway Ave / Smithway St	48	166	0	0	159	107	236	0	167	0	0	0	883	4%
19	Gayhart St / Washingotn Blvd	11	0	3	81	1	250	46	1177	0	0	1191	38	2798	6%
20	Gerhart Ave / Pomona Blvd	36	443	0	0	639	140	0	0	0	157	272	80	1767	2%
21	Gerhart Ave / Pomona Blvd / Via Campo	0	376	74	132	664	0	103	287	78	0	0	0	1714	2%
22	Findlay Ave / Pomona Blvd	132	347	0	0	157	29	0	0	0	166	447	29	1307	2%
23	Garfield Ave / Pomona Blvd	374	572	0	0	793	94	0	0	0	119	866	229	3047	2%
24	Garfield Ave / Via Campo	0	684	225	219	693	0	110	1074	532	34	0	152	3723	2%
25	Wilcox Ave / Pomona Blvd	262	359	0	0	447	11	0	0	0	454	968	148	2649	2%
26	Wilcox Ave / Via Campo	145	514	255	178	684	39	60	1022	440	39	44	47	3467	2%
27	Fulton Ave / Pomona Blvd	0	0	0	0	0	20	0	0	0	0	1549	19	1588	2%
28	Garfield Ave / Washington Blvd	62	788	52	282	593	333	193	1080	28	57	829	186	4483	6%
29	Yates Ave / Washington Blvd	73	84	343	33	67	134	30	1373	11	60	865	17	3090	6%
30	Vail Ave / Washington Blvd	43	154	74	184	276	151	199	1460	53	37	728	105	3464	6%
31	Maple Ave / Washington Blvd	31	58	72	76	59	93	71	1625	30	22	722	85	2944	6%
32	Greenwood Ave / Washington Blvd	76	595	89	152	963	107	233	1258	273	105	617	86	4554	6%
33	Montebello Blvd / Washington Blvd	33	57	20	86	66	48	63	1381	52	58	719	76	2659	6%
34	Bluff Road / Washington Blvd	9	56	118	524	40	40	48	1318	6	63	863	265	3350	4%

35	Paramount Blvd / Washington Blvd	383	861	178	160	882	94	169	1471	336	172	773	131	5610	4%
36	Crossway Dr / Washington Blvd	129	46	150	128	62	12	76	1646	61	237	972	64	3583	4%
37	Rosemead Blvd / Washington Blvd	172	776	295	259	906	148	259	1395	238	230	849	181	5708	3%
38	Passons Blvd / Washington Blvd	89	233	97	332	217	107	113	1719	79	139	1179	155	4459	3%
39	Pioneer Blvd / Washington Blvd	270	477	351	166	411	406	179	1490	553	195	1484	114	6096	3%
40	Norwalk Blvd / Washington Blvd	306	991	54	248	601	124	206	1383	376	117	1407	200	6013	3%
41	Norwalk Blvd / Broadway	0	1418	492	0	986	0	0	0	0	367	0	28	3291	3%
42	Broadway / Washington Blvd	92	328	101	108	211	189	203	1432	81	97	1481	108	4431	3%
43	Sorensen Ave / Washington Blvd	402	791	110	220	365	131	132	1143	290	92	1245	226	5147	3%
44	Lambert Rd / Washington Blvd	680	90	94	48	228	53	40	757	723	155	776	45	3689	1%
45	Lambert Rd / Santa Fe Springs Rd	143	669	251	18	1030	176	133	864	211	357	592	20	4464	1%
46	Putnam St / Washington Blvd	31	32	23	69	87	114	81	787	28	31	671	17	1971	1%
47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	1%
48	Potrero Grande Dr/Pomona Blvd/SR-60 WB Off Ramps	25	70	794	301	192	6	53	56	203	442	552	141	2835	2%
49	Paramount Blvd/SR-60 WB Ramps/Neil Armstrong St	304	551	317	0	985	99	113	5	626	430	234	224	3888	1%
491	SB Paramount Blvd / SR-60 WB On-Ramp	0	1172	0	0	1743	298	0	0	0	0	0	0		
501	NB Paramount Blvd / SR-60 EB On-Ramp	0	1172	425	0	1743	0	0	0	0	0	0	0		
50	Paramount Blvd/SR-60 EB Ramps/ Town Center Dr	0	984	26	204	1087	452	349	267	312	13	0	264	3958	1%
51	Paramount Blvd / Montebello Blvd	0	4	2	324	0	1088	932	576	0	0	331	74	3331	1%
52	Montebello Town Ctr / Montebello Blvd	0	0	0	15	0	138	145	757	0	0	267	6	1328	1%
53	Montebello Blvd / Montebello Town Ctr / SR-60 EB Ramps	7	198	230	147	14	3	94	220	18	202	145	481	1759	1%
54	Plaza Dr / Montebello Blvd	65	87	15	31	101	26	17	373	340	26	121	17	1219	1%
55	Walnut Grove Ave / San Gabriel Blvd	0	882	711	64	833	15	3	1	4	923	16	58	3510	1%
56	San Gabriel Blvd / SR-60 WB Ramps	42	567	107	166	1584	10	11	17	49	151	13	1015	3732	1%
57	San Gabriel Blvd / Montebello Town Center	27	394	18	58	954	772	300	30	267	22	29	22	2893	1%
58	San Gabriel Blvd / Plaza Dr	152	406	0	0	1217	15	6	0	461	0	0	0	2257	1%
59	Merced Ave/ SR-60 WB Ramps/ Santa Anita Ave	134	589	55	36	1075	34	45	23	580	74	331	374	3350	2%
591	SB Santa Anita Ave / SR-60 WB On-Ramp	0	778	0	0	1193	536	0	0	0	0	0	0		
601	Santa Anita Ave / SR-60 EB On-Ramp	0	778	61	0	437	756	0	0	0	0	0	0		
60	Santa Anita Ave / SR-60 EB Ramps	0	480	0	0	437	0	359	0	31	0	0	0	1307	2%
61	SR-60 EB Ramps / Durfee Ave	0	0	0	290	0	28	303	800	0	0	317	590	2328	2%
62	Peck Rd / Slack Rd	236	1178	17	16	1429	89	129	20	334	22	18	15	3503	2%
63	Peck Rd / Farndon St	0	1415	33	21	1789	0	0	0	0	9	0	18	3285	2%
64	Peck Rd / SR-60 WB Ramps	0	881	0	0	1798	0	0	0	0	77	0	567	3323	2%
641	Peck Rd / SR-60 WB On-Ramp	0	881	292	0	1598	277	0	0	0	0	0	0		
65	Peck Rd / Durfee Ave	190	750	11	66	868	682	393	46	651	48	35	27	3767	2%

5	Woods Ave / Beverly Blvd	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NWL2	NWL	NWR	NWR2	TOTAL		
		38	112	16	14	49	372	160	34	0	279	624	28	0	0	145	64	0	222	167	40	2364		
14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	NBL2	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	WBR2	NER2	SWR2	TOTAL
		58	255	635	319	542	1	22	1088	28	17	6	13	124	818	79	356	38	249	35	18	227	38	4966
47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	NBL2	NBL	NBT	NBR	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	WBL	WBT	WBR	WBR2	SEL2	SEL	SER	SER2	TOTAL		
		2	274	491	313	99	441	75	17	71	154	641	16	114	503	718	139	0	701	291	33	5093		

TOTAL VEHICLES

2042 WASHINGTON ALT AM		Northbound			Southbound			Eastbound			Westbound			Total	Truck %
Intersection		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right		
1	Atlantic Blvd & 1st St/ SR-60 WB Ramps	332	1173	0	0	1305	84	45	0	242	314	289	289	4073	2%
101	Atlantic Blvd / SR-60 WB On-Ramps	0	1505	531	0	1466	395	0	0	0	0	0	0		
201	Atlantic Blvd / SR-60 EB On-Ramps	0	2036	419	0	954	512	0	0	0	0	0	0		
2	Atlantic Blvd / SR-60 EB Ramps	0	1909	0	0	954	0	546	0	780	0	0	0	4189	2%
3	Atlantic Blvd / Pomona Blvd	44	1307	24	144	1087	161	182	87	18	129	157	420	3760	2%
4	Atlantic Blvd / Beverly Blvd	64	818	76	170	1044	35	21	332	77	138	649	251	3675	4%
5	Woods Ave / Beverly Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
6	Atlantic Blvd / 4th St	94	1003	25	45	1185	123	75	108	51	51	127	22	2909	4%
7	Atlantic Blvd / Eagle St	15	953	39	30	1169	88	70	73	36	54	40	124	2691	4%
8	Atlantic Blvd / 6th St	64	872	45	94	1008	119	89	73	67	56	64	89	2640	1%
9	Atlantic Blvd / Hubbard St	56	795	40	78	986	66	108	100	81	65	79	79	2533	1%
10	Atlantic Blvd / Whittier Blvd	80	584	21	39	967	53	62	351	31	96	753	28	3065	1%
11	Atlantic Blvd / Verona St	19	712	5	33	974	36	42	42	23	37	26	39	1988	1%
12	Atlantic Blvd / Olympic Blvd	52	536	30	94	789	135	94	571	90	93	886	75	3445	1%
13	Atlantic Blvd / Union Pacific Ave	44	535	2	18	905	33	64	48	67	141	75	31	1963	1%
14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
15	Hillview Ave / Pomona Blvd	246	16	31	7	3	17	18	176	28	56	351	27	976	2%
16	Hillview Ave / Beverly Blvd	32	72	62	15	74	26	27	437	27	79	997	39	1887	4%
17	Hoefner Ave / Flotilla St	20	0	78	0	0	0	0	227	13	52	140	0	530	15%
18	Tubeway Ave / Smithway St	120	131	0	0	133	124	26	0	49	0	0	0	583	15%
19	Gayhart St / Washingotn Blvd	2	0	1	12	0	90	107	895	1	0	1522	85	2715	9%
20	Gerhart Ave / Pomona Blvd	98	621	0	0	217	88	0	0	0	134	286	88	1532	2%
21	Gerhart Ave / Pomona Blvd / Via Campo	0	636	81	38	313	0	83	119	22	0	0	0	1292	2%
22	Findlay Ave / Pomona Blvd	183	223	0	0	92	73	0	0	0	91	565	74	1301	2%
23	Garfield Ave / Pomona Blvd	693	460	0	0	720	387	0	0	0	131	1001	164	3556	2%
24	Garfield Ave / Via Campo	0	526	133	181	670	0	148	801	503	28	0	479	3469	2%
25	Wilcox Ave / Pomona Blvd	332	432	0	0	337	30	0	0	0	434	961	72	2598	2%
26	Wilcox Ave / Via Campo	384	673	175	131	601	39	61	754	267	14	40	30	3169	2%
27	Fulton Ave / Pomona Blvd	0	0	0	0	0	25	0	0	0	0	1433	6	1464	2%
28	Garfield Ave / Washington Blvd	60	493	24	198	750	312	165	692	35	54	1225	156	4164	9%
29	Yates Ave / Washington Blvd	11	67	164	5	56	22	70	774	70	232	1402	25	2898	9%
30	Vail Ave / Washington Blvd	36	136	53	110	162	89	138	670	60	131	1563	314	3462	9%
31	Maple Ave / Washington Blvd	29	45	35	73	62	114	72	762	35	45	1848	95	3215	8%
32	Greenwood Ave / Washington Blvd	78	502	77	96	682	186	138	633	104	146	1775	138	4555	8%
33	Montebello Blvd / Washington Blvd	57	123	40	89	89	72	21	741	35	39	1942	78	3326	8%
34	Bluff Road / Washington Blvd	22	40	77	275	59	65	22	817	14	86	2026	285	3788	6%
35	Paramount Blvd / Washington Blvd	520	525	111	124	663	282	120	791	253	103	1610	48	5150	6%
36	Crossway Dr / Washington Blvd	53	12	43	95	22	22	39	969	29	104	1760	45	3193	6%
37	Rosemead Blvd / Washington Blvd	263	758	267	203	810	146	121	778	194	261	1562	94	5457	5%
38	Passons Blvd / Washington Blvd	52	401	79	339	465	144	152	1050	56	124	1516	98	4476	5%

39	Pioneer Blvd / Washington Blvd	220	250	345	216	363	487	91	955	402	235	1745	142	5451	5%
40	Norwalk Blvd / Washington Blvd	262	553	34	255	801	293	162	1182	407	85	1566	135	5735	4%
41	Norwalk Blvd / Broadway	0	810	303	0	1110	0	0	0	0	449	0	35	2707	4%
42	Broadway / Washington Blvd	46	150	104	131	280	280	131	1295	52	70	1467	81	4087	4%
43	Sorensen Ave / Washington Blvd	219	371	101	205	666	138	51	930	308	72	1372	197	4630	4%
44	Lambert Rd / Washington Blvd	872	227	116	20	119	21	56	505	467	114	778	47	3342	3%
45	Lambert Rd / Santa Fe Springs Rd	362	1091	316	10	553	95	136	472	106	223	718	38	4120	3%
46	Putnam St / Washington Blvd	8	85	3	16	27	76	116	518	6	16	799	49	1719	3%
47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	3%
48	Potrero Grande Dr/Pomona Blvd/SR-60 WB Off Ramps	70	128	580	157	242	5	21	132	90	262	578	119	2384	2%
49	Paramount Blvd/SR-60 WB Ramps/Neil Armstrong St	168	536	280	0	1043	75	56	0	346	213	143	84	2944	2%
491	SB Paramount Blvd / SR-60 WB On-Ramp	0	984	0	0	1155	447	0	0	0	0	0	0		
501	NB Paramount Blvd / SR-60 EB On-Ramp	0	984	290	0	1155	0	0	0	0	0	0	0		
50	Paramount Blvd/SR-60 EB Ramps/ Town Center Dr	0	996	6	67	606	482	253	46	231	0	0	25	2712	2%
51	Paramount Blvd / Montebello Blvd	1	2	0	54	11	772	908	174	1	1	156	92	2172	2%
52	Montebello Town Ctr / Montebello Blvd	0	0	0	0	0	39	69	159	0	0	210	35	512	2%
53	Montebello Blvd / Montebello Town Ctr / SR-60 EB Ramps	0	59	81	320	11	6	4	30	5	89	55	600	1260	2%
54	Plaza Dr / Montebello Blvd	164	16	12	3	8	2	1	104	50	9	73	7	449	2%
55	Walnut Grove Ave / San Gabriel Blvd	0	879	922	53	722	7	4	4	4	471	11	58	3135	2%
56	San Gabriel Blvd / SR-60 WB Ramps	33	982	248	129	1067	1	7	5	21	89	6	812	3400	2%
57	San Gabriel Blvd / Montebello Town Center	14	933	28	95	374	708	248	36	147	16	22	82	2703	2%
58	San Gabriel Blvd / Plaza Dr	180	972	0	0	493	12	3	0	64	0	0	0	1724	2%
59	Merced Ave/ SR-60 WB Ramps/ Santa Anita Ave	268	666	46	40	1174	21	30	18	635	30	288	136	3352	3%
591	SB Santa Anita Ave / SR-60 WB On-Ramp	0	980	0	0	1267	572	0	0	0	0	0	0		
601	Santa Anita Ave / SR-60 EB On-Ramp	0	980	54	0	487	780	0	0	0	0	0	0		
60	Santa Anita Ave / SR-60 EB Ramps	0	662	0	0	487	0	372	0	36	0	0	0	1557	3%
61	SR-60 EB Ramps / Durfee Ave	0	0	0	485	0	64	51	376	0	0	717	530	2223	4%
62	Peck Rd / Slack Rd	276	768	12	7	1402	86	107	18	339	37	44	10	3106	3%
63	Peck Rd / Farndon St	0	1052	15	13	1806	0	0	0	0	27	0	16	2929	3%
64	Peck Rd / SR-60 WB Ramps	0	870	0	0	1833	0	0	0	0	91	0	197	2991	3%
641	Peck Rd / SR-60 WB On-Ramp	0	870	344	0	1570	354	0	0	0	0	0	0		
65	Peck Rd / Durfee Ave	351	808	24	35	726	830	373	31	457	49	66	23	3773	4%

5	Woods Ave / Beverly Blvd	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NWL2	NWL	NWR	NWR2	TOTAL
		46	254	11	6	27	113	243	56	0	179	261	40	0	0	207	88	0	389	306	25	2251

14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	NBL2	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	WBR2	NER2	SWR2	TOTAL
		74	352	487	299	425	2	26	930	134	29	29	51	138	381	132	371	54	353	7	8	107	20	4409

47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	NBL2	NBL	NBT	NBR	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	WBL	WBT	WBR	WBR2	SEL2	SEL	SER	SER2	TOTAL
		2	242	356	155	45	420	86	2	32	87	333	10	127	610	758	146	0	501	266	43	4221

TOTAL VEHICLES

2042 WASHINGTON ALT PM		Northbound			Southbound			Eastbound			Westbound			Total	Truck %
Intersection		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right		
1	Atlantic Blvd & 1st St/ SR-60 WB Ramps	104	1045	0	0	1358	91	244	0	421	214	179	290	3946	2%
101	Atlantic Blvd / SR-60 WB On-Ramps	0	1149	434	0	1548	445	0	0	0	0	0	0		
201	Atlantic Blvd / SR-60 EB On-Ramps	0	1583	247	0	1085	463	0	0	0	0	0	0		
2	Atlantic Blvd / SR-60 EB Ramps	0	1313	0	0	1085	0	517	0	665	0	0	0	3580	2%
3	Atlantic Blvd / Pomona Blvd	39	948	69	305	1406	110	169	217	18	88	94	196	3659	2%
4	Atlantic Blvd / Beverly Blvd	71	896	111	414	913	19	33	966	81	107	322	161	4094	2%
5	Woods Ave / Beverly Blvd	0	0	0	0	0	0	0	0	0	0	0	0	0	2%
6	Atlantic Blvd / 4th St	54	1111	9	34	1082	74	67	103	46	17	46	35	2678	2%
7	Atlantic Blvd / Eagle St	10	1098	21	23	1071	28	52	41	33	31	27	59	2494	2%
8	Atlantic Blvd / 6th St	63	989	24	72	1036	81	74	147	71	41	63	58	2719	1%
9	Atlantic Blvd / Hubbard St	43	953	43	67	1004	51	64	252	137	39	95	111	2859	1%
10	Atlantic Blvd / Whittier Blvd	61	393	21	23	942	47	37	261	25	49	701	2	2562	1%
11	Atlantic Blvd / Verona St	43	805	18	90	973	71	64	212	68	39	76	43	2502	1%
12	Atlantic Blvd / Olympic Blvd	72	638	62	172	755	132	113	1370	124	73	686	110	4307	1%
13	Atlantic Blvd / Union Pacific Ave	38	691	21	39	897	34	35	236	37	74	77	40	2219	1%
14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	0	0	0	0	0	0	0	0	0	0	0	0	0	4%
15	Hillview Ave / Pomona Blvd	86	4	42	13	5	29	10	416	52	71	282	5	1015	2%
16	Hillview Ave / Beverly Blvd	17	78	119	30	70	11	17	1334	35	74	498	11	2294	2%
17	Hoefner Ave / Flotilla St	9	0	78	0	0	0	0	180	31	52	526	0	876	4%
18	Tubeway Ave / Smithway St	51	166	0	0	157	107	234	0	183	0	0	0	898	4%
19	Gayhart St / Washington Blvd	11	0	3	81	1	248	46	1171	0	0	1184	37	2782	6%
20	Gerhart Ave / Pomona Blvd	36	442	0	0	637	140	0	0	0	157	271	80	1763	2%
21	Gerhart Ave / Pomona Blvd / Via Campo	0	376	74	132	662	0	102	287	78	0	0	0	1711	2%
22	Findlay Ave / Pomona Blvd	132	346	0	0	157	29	0	0	0	165	446	29	1304	2%
23	Garfield Ave / Pomona Blvd	373	572	0	0	791	94	0	0	0	119	864	228	3041	2%
24	Garfield Ave / Via Campo	0	683	224	219	691	0	110	1072	530	34	0	152	3715	2%
25	Wilcox Ave / Pomona Blvd	261	359	0	0	446	11	0	0	0	453	965	147	2642	2%
26	Wilcox Ave / Via Campo	144	513	255	178	683	38	60	1020	439	39	44	47	3460	2%
27	Fulton Ave / Pomona Blvd	0	0	0	0	0	20	0	0	0	0	1545	19	1584	2%
28	Garfield Ave / Washington Blvd	61	784	52	280	590	331	192	1073	27	57	822	185	4454	6%
29	Yates Ave / Washington Blvd	72	83	342	33	67	132	29	1365	11	59	860	16	3069	6%
30	Vail Ave / Washington Blvd	43	154	74	183	274	150	197	1451	53	37	723	104	3443	6%
31	Maple Ave / Washington Blvd	31	58	71	76	59	92	70	1616	30	22	718	84	2927	6%
32	Greenwood Ave / Washington Blvd	78	595	92	161	970	116	232	1251	275	107	614	86	4577	6%
33	Montebello Blvd / Washington Blvd	33	57	20	85	66	47	62	1374	51	58	716	76	2645	6%
34	Bluff Road / Washington Blvd	9	56	117	522	39	40	48	1310	5	62	859	264	3331	4%
35	Paramount Blvd / Washington Blvd	381	856	178	159	877	93	168	1462	334	171	768	130	5577	4%

36	Crossway Dr / Washington Blvd	129	45	150	128	62	28	75	1646	61	236	973	63	3596	4%
37	Rosemead Blvd / Washington Blvd	176	774	294	258	903	151	278	1412	257	230	851	181	5765	3%
38	Passons Blvd / Washington Blvd	89	233	96	331	216	107	113	1714	79	139	1177	155	4449	3%
39	Pioneer Blvd / Washington Blvd	269	475	350	166	409	404	178	1484	551	194	1477	113	6070	3%
40	Norwalk Blvd / Washington Blvd	323	1005	58	251	598	123	205	1380	374	121	1404	204	6046	3%
41	Norwalk Blvd / Broadway	0	1412	490	0	982	0	0	0	0	365	0	28	3277	3%
42	Broadway / Washington Blvd	91	327	101	107	209	188	202	1447	80	96	1478	107	4433	3%
43	Sorensen Ave / Washington Blvd	401	788	110	219	363	131	132	1138	289	91	1239	225	5126	3%
44	Lambert Rd / Washington Blvd	676	128	132	47	232	52	40	754	720	161	772	45	3759	1%
45	Lambert Rd / Santa Fe Springs Rd	142	667	250	18	1026	175	133	860	209	356	589	20	4445	1%
46	Putnam St / Washington Blvd	30	32	23	69	86	113	80	784	28	30	667	17	1959	1%
47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	0	0	0	0	0	0	0	0	0	0	0	0	0	1%
48	Potrero Grande Dr/Pomona blvd/SR-60 WB Off Ramps	24	70	791	301	192	6	53	55	202	441	550	141	2826	2%
49	Paramount Blvd/SR-60 WB Ramps/Neil Armstrong St	304	550	316	0	984	99	113	5	625	428	234	223	3881	1%
491	SB Paramount Blvd / SR-60 WB On-Ramp	0	1170	0	0	1739	298	0	0	0	0	0	0		
501	NB Paramount Blvd / SR-60 EB On-Ramp	0	1170	423	0	1739	0	0	0	0	0	0	0		
50	Paramount Blvd/SR-60 EB Ramps/ Town Center Dr	0	982	26	204	1084	451	348	267	311	13	0	263	3949	1%
51	Paramount blvd / Montebello Blvd	0	4	2	324	0	1084	930	573	0	0	330	74	3321	1%
52	Montebello Town Ctr / Montebello Blvd	0	0	0	15	0	138	144	755	0	0	266	6	1324	1%
53	Montebello Blvd / Montebello Town Ctr / SR-60 EB Ramps	7	198	230	147	14	3	94	220	18	202	145	481	1759	1%
54	Plaza Dr / Montebello Blvd	66	86	15	31	101	26	17	372	340	26	121	17	1218	1%
55	Walnut Grove Ave / San Gabriel Blvd	0	882	711	64	832	15	3	1	4	923	16	58	3509	1%
56	San Gabriel Blvd / SR-60 WB Ramps	42	568	107	166	1583	10	11	17	49	151	13	1014	3731	1%
57	San Gabriel Blvd / Montebello Town Center	27	395	18	58	953	772	300	30	267	22	29	22	2893	1%
58	San Gabriel Blvd / Plaza Dr	152	406	0	0	1216	15	6	0	461	0	0	0	2256	1%
59	Merced Ave/ SR-60 WB Ramps/ Santa Anita Ave	134	589	55	36	1075	34	45	23	580	74	331	374	3350	2%
591	SB Santa Anita Ave / SR-60 WB On-Ramp	0	778	0	0	1193	536	0	0	0	0	0	0		
601	Santa Anita Ave / SR-60 EB On-Ramp	0	778	61	0	437	756	0	0	0	0	0	0		
60	Santa Anita Ave / SR-60 EB Ramps	0	480	0	0	437	0	359	0	31	0	0	0	1307	2%
61	SR-60 EB Ramps / Durfee Ave	0	0	0	290	0	28	303	800	0	0	317	590	2328	2%
62	Peck Rd / Slack Rd	236	1178	17	16	1429	89	129	20	334	22	18	15	3503	2%
63	Peck Rd / Farndon St	0	1415	33	21	1789	0	0	0	0	9	0	18	3285	2%
64	Peck Rd / SR-60 WB Ramps	0	882	0	0	1798	0	0	0	0	77	0	566	3323	2%
641	Peck Rd / SR-60 WB On-Ramp	0	882	292	0	1598	277	0	0	0	0	0	0		
65	Peck Rd / Durfee Ave	190	750	11	66	868	682	393	46	651	48	35	27	3767	2%

5	Woods Ave / Beverly Blvd	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	NWL2	NWL	NWR	NWR2	TOTAL		
		38	112	16	14	49	371	160	34	0	278	623	28	0	0	145	64	0	222	166	39	2359		
14	Atlantic Blvd / Telegraph Rd/ Ferguson Dr	NBL2	NBL	NBT	NBR	NBR2	SBL2	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	EBR2	WBL2	WBL	WBT	WBR	WBR2	NER2	SWR2	TOTAL
		58	254	632	317	540	1	22	1084	28	17	6	13	123	814	79	355	38	249	34	18	226	38	4946
47	Whittier Blvd/Washington Blvd/Sante Fe Springs Rd	NBL2	NBL	NBT	NBR	SBL	SBT	SBR	SBR2	EBL2	EBL	EBT	EBR	WBL	WBT	WBR	WBR2	SEL2	SEL	SER	SER2	TOTAL		
		2	273	488	312	99	439	74	17	71	153	638	16	113	501	715	139	0	698	290	33	5071		