

APPENDIX B

Environmental Information

The following information is contained in Appendix B:

- B1. Section 4(f)
- B2. Section 106
- B3. Noise
- B4. Air Quality
- B5. Hazardous Materials
- B6. Asbestos
- B7. Visual Impact Assessment
- B8. Wetlands Documentation
- B9. Endangered & Threatened Species
- B10. Drainage Report

APPENDIX B4

Air Quality

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1 Introduction

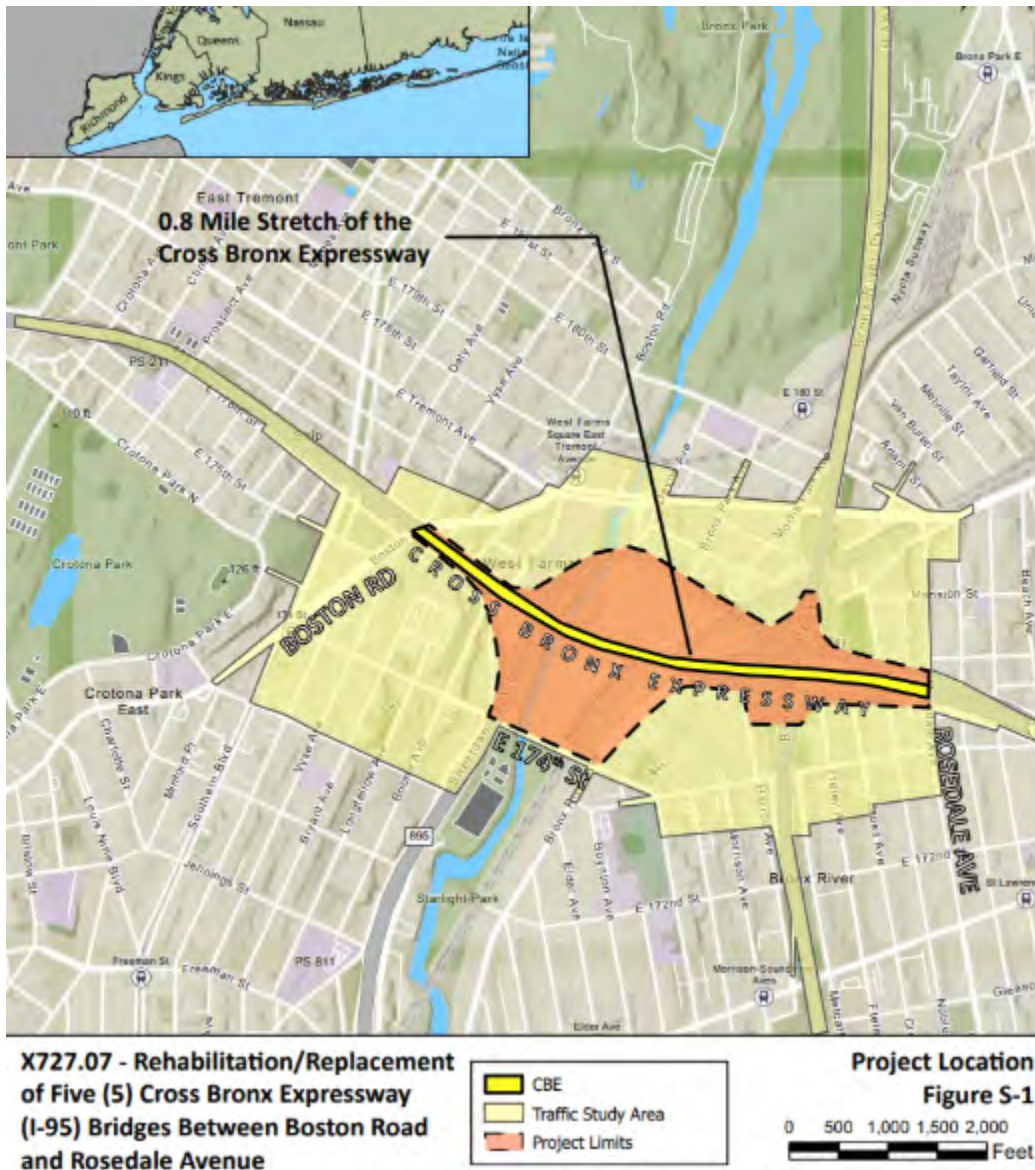
This appendix documents the air quality analyses that were conducted for the Rehabilitation/ Replacement of Five (5) Cross Bronx Expressway (I-95) Bridges between Boston Road and Rosedale Avenue (the Project). It describes the regulatory context, methodology, and results of the air quality assessment. The methodologies have been developed to be consistent with federal and state procedures, including the New York State Department of Transportation (NYSDOT) Transportation Environmental Manual (TEM), the U.S. Environmental Protection Agency (USEPA) Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas, and the Federal Highway Administration (FHWA) Updated Interim Guidance on Mobile Source Air Toxic (MSAT) Analysis in NEPA Documents.

The Project is located in the Bronx, Bronx County, New York, along an approximately 0.8-mile elevated segment of the Cross Bronx Expressway (CBE) (Figure S-1). The project limits (limits of work) extend from Boston Road on the west to Rosedale Avenue on the east, and from East 174th Street on the south to East 177th Street on the north (see Figure 1: Project Location Map). The five bridges along this elevated portion of the CBE are the CBE over West Farms Road; the CBE over Sheridan Boulevard, Bronx River Avenue, Amtrak, and the Bronx River; the CBE over the Bronx River Parkway (BRP); the CBE east to the Sheridan Boulevard south (Exit 4A) ramp over West Farms Road (Ramp LCH); and Boston Road over the CBE. A sixth bridge, Sheridan Boulevard over the Bronx River, is included in the Project due to proposed improvements to Sheridan Boulevard that would impact traffic flow onto the bridge and necessitate operational and geometric improvements to the structure.

The project alternatives would include the complete replacement of the four CBE bridges and replacement of the deck and bearings, bridge steel repairs/strengthening, and concrete repairs to substructures at the Boston Road over the CBE bridge; improvements to the geometry including profile adjustments, vertical clearances, cross slopes, sight distances and shoulder widths to the CBE mainline, approach slab and deck overlay with potential substructure repairs at Sheridan Boulevard over the Bronx River; a new ramp from the southbound BRP to the westbound CBE; and improvements to westbound on-ramps to lengthen existing acceleration lanes and install a roundabout at Sheridan Boulevard.

Alternative A provides a shared use path (SUP) on the southern side of the CBE with connections to local streets, Alternative B includes all of the improvements in Alternative A, as well as a connection to the Bronx River Greenway, and Alternative C does not provide the SUP along the CBE or the connection to the Bronx River Greenway.

Figure S-1: Project Location Map



1.1 Regulatory Context National Ambient Air Quality Standards

As required by the Clean Air Act and its Amendments of 1990 (CAA), primary and secondary National Ambient Air Quality Standards (NAAQS) have been established for six “criteria” pollutants: carbon monoxide (CO), nitrogen dioxide (NO₂), ozone, particulate matter (PM) less than or equal to 2.5 micrometers (PM_{2.5}), PM less than or equal to 10 micrometers (PM₁₀), sulfur dioxide (SO₂), and lead (Pb). The primary standards are intended to protect public health with an adequate margin of safety, including the health of sensitive populations such as asthmatics, children, and the elderly. The secondary standards are intended to protect the nation’s welfare and account for air pollutant effects on soil, water, visibility, materials, vegetation, and other aspects of the environment. The primary standards are generally either the same as the secondary standards or more restrictive. The NAAQS prescribe the maximum allowable ambient concentrations for criteria pollutants as outlined in Table 1.

Table 1: National Ambient Air Quality Standards

Pollutant		Primary/ Secondary	Averaging Time	Level	Form
Carbon Monoxide (CO)		primary	8 hours	9 ppm	Not to be exceeded more than once per year
			1 hour	35 ppm	
Lead (Pb)		primary and secondary	Rolling 3-month average	0.15 µg/m ³ ⁽¹⁾	Not to be exceeded
Nitrogen Dioxide (NO₂)		primary	1 hour	100 ppb	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years
		primary and secondary	1 year	53 ppb ⁽²⁾	Annual Mean
Ozone		primary and secondary	8 hours	0.070 ppm ⁽³⁾	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years
Particle Pollution (PM)	PM_{2.5}	primary	1 year	9.0 µg/m ³	Annual mean, averaged over 3 years
		secondary	1 year	15.0 µg/m ³	Annual mean, averaged over 3 years
		primary and secondary	24 hours	35 µg/m ³	98th percentile, averaged over 3 years
	PM₁₀	primary and secondary	24 hours	150 µg/m ³	Not to be exceeded more than once per year on average over 3 years
Sulfur Dioxide (SO₂)		primary	1 hour	75 ppb ⁽⁴⁾	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years
		secondary	1 year	10 ppb	annual mean, averaged over 3 years

Source: USEPA, <https://www.epa.gov/criteria-air-pollutants/naaqs-table>

Footnotes:

(1) In areas designated nonattainment for the Pb standards prior to the promulgation of the current (2008) standards, and for which implementation plans to attain or maintain the current (2008) standards have not been submitted and approved, the previous standards (1.5 µg/m³ as a calendar quarter average) also remain in effect.

(2) The level of the annual NO₂ standard is 0.053 ppm. It is shown here in terms of ppb for the purposes of clearer comparison to the 1-hour standard level.

(3) Final rule signed October 1, 2015, and effective December 28, 2015. The previous (2008) O₃ standards are not revoked and remain in effect for designated areas. Additionally, some areas may have certain continuing implementation obligations under the prior revoked 1-hour (1979) and 8-hour (1997) O₃ standards.

(4) The previous SO₂ standards (0.14 ppm 24-hour and 0.03 ppm annual) will additionally remain in effect in certain areas: (1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and (2) any area for which an implementation plan providing for attainment of the current (2010) standard has not been submitted and approved and which is designated nonattainment under the previous SO₂ standards or is not meeting the requirements of a State Implementation Plan (SIP) call under the previous SO₂ standards (40 CFR 50.4(3)). A SIP call is an USEPA action requiring a state to resubmit all or part of its SIP to demonstrate attainment of the required NAAQS.

1.2 Transportation Conformity

The CAA requires that the USEPA publish a list of all geographic areas in compliance with the NAAQS, and those not attaining the NAAQS. Areas not in NAAQS compliance are deemed nonattainment areas. Areas that have insufficient data to make a determination are deemed unclassified and are treated as attainment areas until proven otherwise. A maintenance area is an area that was previously designated as nonattainment for a particular pollutant but has since demonstrated compliance with the NAAQS for that pollutant. An area's designation is based on data collected by the state monitoring network on a pollutant-by-pollutant basis. Transportation conformity refers to a requirement of the CAA that ensures that highway and transit projects that are federally funded or approved in nonattainment and maintenance areas are consistent with the air quality goals established by a state air quality implementation plan (SIP). The New York SIP is made up of many related actions that have been taken to meet CAA requirements, such as infrastructure assessments, rate-of-progress plans, attainment demonstrations, and regulations. Regarding metropolitan transportation planning, it establishes motor vehicle emissions budgets.

The Project is in Bronx County, which is classified as nonattainment for ozone and maintenance for $PM_{2.5}$ ¹ and CO.

The CAA requires the severity of nonattainment to be stated. Ozone nonattainment areas can be categorized as marginal, moderate, serious, severe, or extreme levels of severity. PM nonattainment areas are categorized as either moderate or serious severity. Once a severity level is set, the CAA then requires a maintenance plan to meet and maintain compliance with NAAQS air quality standards. The Project is within an area classified as severe nonattainment for ozone.

Certain highway and transit projects are exempt from the requirement to determine conformity. Such projects may proceed toward implementation even in the absence of a conforming transportation plan and TIP. The Project is non-exempt pursuant to 40 CFR Part 93 and is included in the currently conforming Transportation Improvement Plan (TIP) and Plan adopted by the New York Metropolitan Transportation Council (NYMTC) on September 5, 2025, and approved by the FHWA/FTA on October 6, 2025. The design concept and scope of the Project is consistent with the design concept and scope assumed in the TIP and Plan, which support and comply with the applicable New York SIP for ozone and $PM_{2.5}$ in the relevant nonattainment and maintenance areas.

A screening was conducted to determine whether the Project requires a project-level $PM_{2.5}$ hot-spot analysis based on criteria presented in the Federal Transportation Conformity Regulation at 40 CFR 93.123(b)(1). These criteria and the screening are presented below.

¹ https://www3.epa.gov/airquality/greenbook/anayo_ny.html

Criterion 1: New highway projects that have a significant² number of diesel vehicles, and expanded highway projects that have a significant increase in the number of diesel vehicles.

- This is not a new highway project.
- This is a bridge rehabilitation/replacement project along a highway. As the Project would not attract traffic to the study area, a significant increase in the number of diesel vehicles is not projected. The daily heavy-duty vehicle miles traveled (VMT) is projected to be lower under Alternatives A, B, and C when compared to the No Build Alternative. There are no significant increases in heavy-duty vehicle traffic projected along the Cross Bronx Expressway as a result of the Project³.

Criterion 2: Projects affecting intersections that are at Level-of-Service D, E, or F with a significant number of diesel vehicles, or those that will change to Level-of-Service D, E, or F because of increased traffic volumes from a significant number of diesel vehicles related to the project.

- There are intersections in the project area that are operating at Level-of-Service D, E, or F under existing 2022 conditions, and there are intersections under Alternatives A, B, and C that will change to Level-of-Service D, E, or F, compared to the No Build Alternative. The conformity regulations do not provide a clear definition of “significant number” increase in diesel vehicles for signalized intersections. The highest peak hour heavy-duty vehicle volume under existing conditions is 262 vehicles. The highest peak hour increase in heavy-duty vehicle volume under Alternatives A, B, and C is 87 vehicles, compared to the No Build Alternative. The highest peak hour heavy-duty vehicle volume under Alternatives A, B, and C at new intersections is 189 vehicles. The existing heavy-duty traffic and the increases in heavy-duty traffic at intersections is not significant considering that an increase of 10,000 diesel vehicles per day is considered significant for expanded highway projects as noted in the footnote below.

Criterion 3: New bus and rail terminals and transfer points that have a significant number of diesel vehicles congregating at a single location.

- This criterion is not applicable to the Project. This Project does not include a new bus or rail terminal.

Criterion 4: Expanded bus and rail terminals and transfer points that significantly increase the number of diesel vehicles congregating at a single location.

² According to USEPA’s guidance, a project of local air quality concern is one in which a project on a new highway or expressway serves a significant volume of diesel vehicle traffic, such as facilities with greater than 125,000 AADT, and 8% or more of such AADT is diesel truck traffic (which equals an increase of 10,000 diesel vehicles). An increase of 10,000 diesel vehicles per day is generally accepted as the threshold for a significant increase in diesel traffic for expanded highway projects.

³ Heavy-duty vehicles for this analysis are defined as all medium trucks, heavy trucks, and buses. Data are not available on the specific number of diesel vehicles operating within the study area, but the evaluation of all heavy-duty vehicle traffic allows for estimation on how the Project would affect diesel vehicle volumes. In 2023, 76 percent of heavy-duty vehicles were powered by diesel engines in the U.S. The percentage of light-duty vehicles powered by diesel engines is less than 1 percent.

- This criterion is not applicable to the Project. This Project does not include an expanded bus or rail terminal.

Criterion 5: Projects in or affecting locations, areas, or categories of sites which are identified in the PM_{2.5} and PM₁₀ applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.

- This criterion is not applicable to the Project. The study area is not identified as having a site of violation or possible violation.

Based on the above screening, the Air Quality Interagency Consultation Group (ICG) determined that the Project is not a project of air quality concern as per the criteria in 40 CFR Part 93.123(b) (1) (see Air Quality Appendix Attachment 1.) Therefore, a PM_{2.5} hot-spot analysis was not required for the Project. However, to inform the decision-making process for this Project, a localized concentrations or microscale PM air quality analysis was conducted, as described in Section 4.2.

In addition, as documented in Section 4.1, a CO hot-spot (or microscale) analysis is not warranted for the Project.

All project level conformity requirements are met for the Project.

2 Pollutants for Analysis

Listed below are the pollutants analyzed for the Project. The air quality analyses included “microscale” (localized concentrations) analysis, as well as “mesoscale” (regional) emissions analysis of the total quantity of emissions generated by the roadways affected by the Project.

The pollutants for analysis include:

- Carbon monoxide (CO) - a colorless, odorless, tasteless gas formed in large part by incomplete combustion of fuel. Human activities (e.g., transportation or industrial processes) are largely the source for CO contamination in ambient air.
- Nitrogen oxides (NO_x) - a group of highly reactive gases that contain nitrogen and oxygen in varying amounts. Many of the nitrogen oxides are colorless and odorless. NO_x is formed when the oxygen and nitrogen in the air react with each other during combustion. The primary sources of nitrogen oxides are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuels.
- Volatile organic compounds (VOCs) - VOCs come from vehicle exhaust, paint thinners, solvents, and other petroleum-based products. A number of exhaust VOCs are toxic, with the potential to cause cancer.
- Particulate matter less than or equal 2.5 micrometers in diameter (PM_{2.5}) – Particulate matter is any material that exists as solid or liquid in the atmosphere, and may be in the form of fly ash, soot, dust, fog, fumes, etc. Particulate matter can be of such a small size that it cannot be filtered by the nose and lungs. PM_{2.5} is particulate matter that is less than 2.5 micrometers in size. A micrometer is one millionth of a meter.
- Particulate matter less than or equal 10 micrometers in diameter (PM₁₀) - PM₁₀ is particulate matter that is less than 10 micrometers in size.

Mobile source air toxics (MSATs) were also evaluated and discussed later in this document.

Ozone is not analyzed at the project level and is formed through chemical reactions in the atmosphere. However, emissions of ozone precursor pollutants VOC and NO_x are considered in the mesoscale analysis.

Vehicular sources of sulfur dioxide are not substantial; therefore, analysis of this pollutant from mobile sources or construction equipment is not warranted. Lead would not be emitted by any source associated with this Project; therefore, analysis of lead as part of the air quality analysis is not warranted.

3 Methodology

The air quality analyses for the Project were performed based on USEPA and FHWA guidance, using required USEPA models (which incorporate the best available science). Key guidance documents used in the development of the air quality analysis methodologies included:

- NYSDOT's Transportation Environmental Manual (TEM)
- USEPA's Transportation Conformity Guidance for Quantitative Hot-Spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas
- FHWA's Updated Interim Guidance on Mobile Source Air Toxic (MSAT) Analysis in NEPA Documents

The air quality analyses for the Project consisted of the following:

- Localized Concentrations or Microscale Analysis
- Regional or Mesoscale Emissions Burden Analysis
- Mobile Source Air Toxics Analysis

The study areas for the air quality analyses varied based on the specific purpose of the analysis being undertaken and are described in the subsections below.

3.1 Analysis Years

The Project is anticipated to be completed and opened to traffic by 2032 (the estimated time of completion [ETC]). Modeling trends have shown that the ETC traffic yields the highest emissions because mobile source emissions are decreasing due to fleet turnover and more efficient vehicles being introduced at a faster rate than regional traffic growth. Therefore, it is expected that emissions would be lower in future years. The New York City Environmental Quality Review (CEQR) Technical Manual (December 2021 edition) predicts the annual background growth rates for the Bronx from 2030 to 2032 and assumes an 0.125 percent annual growth rate for the county from 2027 onward. Given this negligible growth and the fact that mobile source emissions are decreasing in the future, traffic data from 2030 (ETC) were utilized to evaluate air quality effects for the Project.

The mesoscale analysis for the Project (described in subsequent sections) was conducted for years 2030 (ETC) and 2050 (ETC+20).

As described in NYSDOT procedures, when conducting a microscale analysis, it should be conducted for the critical analysis year (the modeled year with the highest emissions). However, both years 2030 and 2050 were analyzed for the microscale analysis for this Project (described in subsequent sections) to illustrate the expected air quality trends over time and inform the decision-making process for the Project.

3.2 Carbon Monoxide (CO) Analysis Methodology

Screening Methodology. The need for a CO microscale analysis was assessed ("screened") following the procedures outlined in the NYSDOT TEM. The study area includes 6 signalized intersection locations that were considered for the CO screening analysis. The screening procedure described below employed the traffic analysis results for years 2030 and 2050. The

screening criteria described in the TEM were employed to determine whether the Project warrants a CO microscale analysis. The screening criteria consider whether the Project would increase traffic volumes or implement any other changes (e.g., changes in speed, roadway width, sidewalk locations, or traffic signals) to the extent that substantial increases in CO concentrations could be expected, requiring further detailed analysis. According to the screening procedures, if the intersections and roadways in the study area have a Level of Service (LOS) of A, B, or C under Alternatives A, B, and C, no CO microscale air quality analysis is required. For each intersection or corridor operating at LOS D or worse, the following capture criteria are applied to determine if a CO microscale air quality analysis is warranted:

- a 10 percent or more reduction in the distance between source and receptor (e.g., street or highway widening); or
- a 10 percent or more increase in traffic volume on affected roadways for the Build year; or
- a 10 percent or more increase in vehicle emissions for the Build year; or
- any increase in the number of queued lanes for the ETC year (this applies to intersections) (it is not expected that intersections controlled by stop signs would require an air quality analysis); or
- a 20 percent reduction in speed when Build condition average speeds are below 30 miles per hour (mph).

If the intersections and roadways affected by the Project do not meet any of the above criteria, a CO microscale analysis is not warranted or required. Should any one of the above capture criteria be met, a volume threshold screening is performed, using traffic volume and emission factor data to compare with specific volume thresholds established in the TEM. If the project-related traffic volumes are below the volume threshold criteria, then a CO microscale analysis is not warranted or required.

3.3 PM_{2.5}/PM₁₀ Microscale Analysis Methodology

As discussed above, a PM_{2.5} hot-spot analysis is not required for this Project for federal transportation conformity purposes. However, to help inform the project decision-making process, a PM_{2.5}/PM₁₀ microscale (localized concentrations) analysis was conducted for the Project consistent with the procedures outlined in USEPA's *Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas*.

3.3.1 Study Area

The study area for the PM_{2.5}/PM₁₀ microscale analysis included an area extending out to 2,000 feet from the proposed improvements associated with Alternatives A, B, and C (see Figure 1).

3.3.2 Analysis Years

The analysis years for the PM_{2.5}/PM₁₀ microscale analysis are 2030 and 2050 as described in Section 3.1.

3.3.3 Type of PM Emissions Modeled

The PM_{2.5}/PM₁₀ microscale analysis includes directly emitted PM_{2.5}/PM₁₀ emissions. These include vehicle running and crankcase exhaust, brake wear, and tire wear emissions from on-

road vehicles. Start and evaporative emissions are not a significant portion of the roadway emissions in the study area. Any non-running emissions are assumed to be included in the background concentrations. In addition, this Project is not expected to result in changes to emissions from existing nearby sources or support any new facilities that would affect localized PM_{2.5}/PM₁₀ emissions. PM precursors are not considered in PM microscale analyses, since precursors take time at the regional level to form into secondary PM.

Road dust emissions were included in the PM₁₀ analysis based on USEPA's AP-42⁴. Road dust is not a substantial contributor to ambient PM_{2.5} concentrations in New York State and therefore were not included in the PM_{2.5} analysis consistent with Section 6 of the USEPA PM hotspot guidance.

3.3.4 Air Quality Models

MOVES4 was the latest emissions model available when this analysis started and is the emissions model used for the analysis. Ground-level air concentrations of PM_{2.5} and PM₁₀ were estimated using AERMOD (Version 24142), which is listed as one of the recommended air quality models for highway and intersection projects in the USEPA PM hot-spot guidance. Per USEPA Office of Transportation and Air Quality (OTAQ) recommendations, the roadway emissions were treated as a line source within the AERMOD model.

3.3.5 Modeling Input Data

NYSDEC MOVES input files for Bronx County were used for the air quality modeling, including vehicle/fleet characterization data (age, fleet mix etc.), meteorological data, fuel, and control strategy parameters.

Vehicle Age Distribution. Age distributions for each vehicle source type were developed based on calendar year 2022 New York Department of Motor Vehicles registration data for NYSDOT Region 11 (NYC) processed by NYSDEC. MOVES uses 31 vehicle age classes to characterize the fleet age in relation to the analysis year. The vehicle age distribution (e.g., percentage of vehicles in each age class) was kept constant for the future analysis years 2030 and 2050. As an example, the percentage of vehicles that are five years old was kept constant. This still accounts for the effects of fleet turnover and newer model year vehicles coming into the fleet because a vehicle that is five years old in 2030 is model year 2025, while in 2050, a five-year-old vehicle implies a model year of 2045.

Meteorology. The meteorological data (zone/month/hour) are from the National Oceanic and Atmospheric Administration (NOAA) weather station WBAN:14732 at LaGuardia Airport. The data are from calendar year 2021 for MOVES input. Hourly meteorological data are used for dispersion modeling (i.e., AERMOD). The analysis used five years of hourly surface and upper air meteorological data (2017-2021) from LaGuardia Airport.

Fuel Inputs. Default fuel supply and fuel usage fraction files were used, as provided by NYSDEC. MOVES defaults were used for the alternative vehicle fuels and technology (AVFT) input file.

I/M (Inspection and Maintenance) Coverage. The IM Coverage files are based on calendar year 2019 program compliance data from NYSDEC.

⁴ https://www.epa.gov/sites/default/files/2020-10/documents/13.2.1_paved_roads.pdf

Low Emission Vehicle (LEV) File. The 2021 New York State Low Emission Vehicle (LEV) input database was used with all MOVES runs. The purpose of this file is to adjust the default MOVES emissions rates based on New York’s adoption of California emissions standards stricter than federal standards for certain model years.

The modeling undertaken for this Project included traffic estimates subdivided into light duty vehicles (passenger cars and trucks and light trucks) and heavy duty vehicles (medium and heavy trucks and buses). These values were allocated into the various MOVES source-type (vehicle) classifications by applying vehicle distributions used in the latest NYSDEC/NYS DOT MOVES inputs for Bronx County.

3.3.6 On-Road Vehicle Emissions

On-road vehicle emissions were estimated using MOVES. Project scale emissions modeling was performed for years 2030 and 2050. For each analysis year, MOVES was run to represent the worst-case condition.

The emissions rate option was used to develop an emission rate lookup table. Rates from this table (varying by calendar year, road type, speed, grade, and vehicle type) were combined with link-specific traffic data to develop the emissions used in AERMOD. Table 2 summarizes the range of parameters modeled in MOVES for the PM_{2.5}/PM₁₀ analysis. A single month/hour with the fuel formulation resulting in the highest emissions was used (PM running emissions do not vary based on temperature in MOVES).

Table 2: Range of Conditions Used in Emissions Modeling for PM_{2.5}/PM₁₀ Microscale Analysis

Parameter	Range of conditions modeled
Analysis Month/ Hour	July, 12:00 AM
Analysis Years	2030, 2050
Road type	Urban Restricted Access Urban Unrestricted Access
Average Speed	1 to 55 mph (Unrestricted Access) 1 to 65 mph (Restricted Access) In 1 mph increments
Average Grade	-5 to 3% (Unrestricted Access) -7 to 5% (Restricted Access) in 1-degree increments
Source use type	All available

The emission factors developed from MOVES were applied to the traffic data developed through the project specific traffic modeling completed for this Project. This consisted of traffic for four weekday time periods (AM peak, midday, PM peak, and overnight). The AM and PM peak time periods consisted of peak-hour traffic activity while the midday and overnight time periods consisted of average-hour activity. Traffic data used for the analysis were developed through the project specific traffic modeling completed for this Project. As a conservative approach (i.e., worst

case), the fall traffic conditions were used to represent the entire year since the fall season had the highest traffic volumes.

3.3.7 Road Dust

As discussed in Section 3.3.3, road dust emissions were included in the PM₁₀ analysis.

The silt loading factor for the road dust analysis was based on the AP-42 defaults for various ADT categories as follows:

- Limited access highways: 0.015 grams/m²
- Other roads: 0.06 grams/m². The silt loading factor for roads with greater than 10,000 ADT is lower (i.e., 0.03 grams/m²). However, 0.06 grams/m² was used for the surface street network as a conservative (i.e., worst case) measure.

The traffic weighted average vehicle weight for each link was determined based on the MOVES average vehicle weights, consistent with the approach to vehicle weights used by the USEPA 2020 National Emissions Inventory Technical Support Document. Table 3 summarizes the MOVES average vehicle weights. The 24-hour traffic data by vehicle type were used to determine the average vehicle weight for each link for purposes of road dust emissions.

Table 3: MOVES Average Vehicle Weights for Road Dust Emission Calculation

MOVES Vehicle Type	Source Mass (tons)
Motorcycle	0.285
Passenger Car	1.479
Passenger Truck	1.867
Light Commercial Truck	2.0598
Intercity Bus	19.594
Transit Bus	16.556
School Bus	9.070
Refuse Truck	23.114
Single Unit Short-haul Truck	8.539
Single Unit Long-haul Truck	6.984
Motor Home	7.526
Combination Short-haul Truck	22.975
Combination Long-haul Truck	24.601

3.3.8 Air Quality Model Data Inputs and Receptors

The AERMOD model requires the determination of the emission sources (e.g., the roadway) and the locations to measure air quality concentrations (i.e., the receptors). Roadway links from the project-specific traffic modeling were used to delineate the emission sources. Using GIS software, roadway links were identified within the study area.

As recommended in the USEPA PM hot-spot guidance, receptors were placed in order to estimate the highest concentrations of PM_{2.5}/PM₁₀ and to determine any potential exceedances of the NAAQS. Areas with higher concentrations of PM_{2.5}/PM₁₀ are expected to occur nearest the Cross Bronx Expressway and study area intersections. Areas within 5 meters of the edge of all roadways were excluded per USEPA guidance, except where sidewalks, bike paths, bus

shelters, or other areas of human activity are present or are expected to be present under Alternatives A, B, and C. Receptors were also placed at 50 and 100 meters off the project roadways. Finally, receptors were placed at other recreational areas, schools, or any other areas that might be considered sensitive.

In all, 360 receptors were placed within the microscale analysis study area. These 360 receptors were used to evaluate the PM_{2.5} and PM₁₀ 24-hour average concentrations. The number of receptors analyzed for the Alternatives A, B, and C varied slightly, with 358 receptors for Alternative A, 360 receptors for Alternative B, and 324 receptors for Alternative C. The difference in the number of receptors is due to the placement of receptors on the new shared use path under Alternatives A and B and the greenway connection under Alternative B. There are two groupings of receptors:

SUP and Greenway Connection-Only Receptors: Most of the receptors on the new bicycle and pedestrian facilities do not have a corresponding receptor for the No Build Alternative because these locations are not accessible under No Build conditions and/or the human use areas that the receptor represents only exist with Alternatives A and B. Therefore, where there is no corresponding receptor location under the No Build Alternative, predicted PM concentrations were only compared to the NAAQS. These SUP and Greenway Connection-only receptors are located along the SUP and greenway connection.

No Build/Alternatives A, B, and C Receptors: 324 receptors exist under Alternatives A, B, and C and the No Build Alternative; thus, for these receptors, the Alternative A, B, and C concentrations were compared to the No Build Alternative concentrations. The concentrations at these receptors were also compared to the NAAQS.

To assess the PM_{2.5} annual average concentrations, only those receptors that are representative of community air quality were included; most of the near-road receptors were not included in the assessment of effects based on the USEPA hot-spot guidance (Section 9.4.2) and the PM_{2.5} NAAQS rule (Appendix D, Section 4.7.1). The annual standard is based on areawide/community exposure to PM_{2.5} over the course of the year, making it inappropriate to evaluate most receptors directly adjacent to the road, along sidewalks or paths, or within roadway right-of-way. For the evaluation of PM_{2.5} annual average concentrations, 210 receptors were evaluated (see Figure 1).

3.3.9 Background Concentrations

Background concentrations are used to represent the contribution of other emission sources in the region that contribute to the total concentration experienced at receptors. Based on input from NYSDEC, the data from the NYSDEC Bronx Sites Monitor IS 52 were used to establish background concentrations. This is the closest monitoring location to the study area and is located less than two miles away. The land use and emission sources around IS 52 are similar to that which surround this Project.

Background concentration data for the three most recent complete years of monitoring (2021-2023) were used. The PM_{2.5} concentrations were obtained from the NYSDEC Designation Recommendation for the 2024 Fine Particulate Matter NAAQS. The PM₁₀ background concentration was obtained from the NYSDEC Ambient Air Quality Report 2023. Background concentrations are as follows:

- Annual Average PM_{2.5}: 7.9 (µg/m³)
- 24-hr Average PM_{2.5} (98th percentile): 20.0 (µg/m³)
- 24-hr Average PM₁₀ (highest): 37 (µg/m³)

3.4 Mesoscale Analysis Methodology

According to NYSDOT procedures, mesoscale analysis is recommended when a project would substantially affect traffic over a large area. The vehicle miles traveled (VMT) under Alternatives A, B, and C are projected to be approximately 2 percent higher than the No Build Alternative in both 2030 and 2050; therefore, a mesoscale analysis is not warranted per NYSDOT's TEM. However, to help inform the project decision-making process, a mesoscale analysis was performed for years 2030 and 2050.

The study area for this analysis matched the traffic modeling analysis area used for the Project (see Appendix C for additional information on the traffic modeling analysis study area). The analysis used VMT data for years 2030 and 2050 for the No Build Alternative and Alternatives A, B, and C.

The mesoscale emissions analysis was performed using MOVES4 at the county-scale using Bronx County specific vehicle, roadway, fuel characteristics, and Inspection/Maintenance program. The VMT breakdown by vehicle type and breakdown by hour/ weekday or weekend/ month were consistent with the latest NYSDEC/ NYSDOT MOVES inputs for Bronx County. To obtain the results for each alternative, the VMT was modified in the MOVES input file.

MOVES inputs matched those used to develop the emission rates for the PM microscale analysis, with the following exceptions.

- **Scale:** County scale and inventory were selected.
- **Time spans:** For each year of analysis, all days (weekend and weekdays), all months, and all hours of the day were selected.
- **Pollutant and processes:** The pollutants selected for the mesoscale analysis were CO, NO_x, VOCs, PM₁₀, and PM_{2.5}. The running exhaust and crankcase running exhaust were selected for all pollutants, and brake wear and tire wear were selected for PM₁₀ and PM_{2.5}. All required prerequisites in MOVES (i.e., total gaseous hydrocarbons and non-methane hydrocarbons) were also selected.

Project VMT was developed for passenger vehicles, medium trucks, heavy trucks, and buses. This VMT was prorated over the other MOVES classifications to match VMT distribution for Bronx County as a whole. See Table 4.

Table 4: VMT Distribution by Vehicle Type

Project VMT Classification from Traffic Modeling	MOVES Source TypeID	Source Type Name	Percent by Classification Group
N/A	11	Motorcycles ¹	N/A
Passenger Vehicles	21	Passenger Cars	35.23%
	31	Passenger Trucks	60.65%
	32	Light Commercial Trucks	4.12%
Buses	41	Other Buses	2.48%
	42	Transit Buses	93.28%
	43	School Buses	4.24%
Medium Trucks	51	Refuse Trucks	6.68%
	52	Single Unit Short Haul Trucks	85.47%
	53	Single Unit Long Haul Trucks	7.25%
	54	Motor Homes	0.60%
Heavy Trucks	61	Combination Short-Haul Trucks	35.39%
	62	Combination Long-Haul Trucks	64.61%

¹ The traffic modeling developed for this Project did not include motorcycle traffic; therefore, VMT data were not available for motorcycles.

Road dust was added to the PM₁₀ inventory using procedures similar to those described with the microscale analysis. The road dust emission rates developed for the urban restricted and the urban unrestricted activity were applied to the project VMT.

3.5 Mobile Source Air Toxics Analysis Methodology

Under the Clean Air Act, USEPA is required to regulate emissions of 188 air toxics that have the potential for serious health effects. USEPA has identified nine compounds with substantial contributions from mobile sources that are among the national and regional-scale health risk contributors and FHWA considers these pollutants the priority Mobile Source Air Toxics (MSATs): 1,3-butadiene, acetaldehyde, acrolein, benzene, diesel particulate matter (diesel PM), ethylbenzene, formaldehyde, naphthalene, and polycyclic organic matter. While FHWA considers these the priority mobile source air toxics, the list is subject to change and may be adjusted in consideration of future USEPA rules.

FHWA's updated interim guidance includes a tiered approach for addressing MSATs in NEPA documents (Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents, Federal Highway Administration, January 18, 2023). Under this guidance, the Project falls under Category 2: "Projects with Low Potential MSAT Effects" because it does not add new highway capacity, does not create facilities that would increase MSAT emissions, and involves annual average daily traffic (AADT) volumes less than 140,000 to 150,000 vehicles. The highest

forecasted AADT on the Cross Bronx Expressway is below 130,000 vehicles. For Category 2 projects, the guidance recommends qualitative MSAT assessments.

Although only a qualitative MSAT assessment is recommended per FHWA guidance, the NYSDOT conducted a quantitative MSAT analysis to provide additional information related to potential MSAT emissions. The quantitative MSAT analysis was performed for years 2030 and 2050 using MOVES4 at the county-scale using Bronx County specific vehicle, roadway, and fuel characteristics. The VMT breakdown by vehicle type and breakdown by hour/weekday or weekend/month were consistent with the latest NYSDEC/ NYSDOT MOVES inputs for Bronx County. To obtain the results for each alternative, the VMT was modified in the MOVES input matching what was done for the mesoscale analysis.

The MOVES run specification for the quantitative MSAT analysis was identical to the mesoscale analysis, with the exception of the pollutants and processes selected.

The pollutants were selected following the guidance in this document: *Frequently Asked Questions (FAQs): FHWA Recommendations for Conducting Quantitative Mobile Source Air Toxics (MSAT) Analysis for FHWA NEPA Documents (FHWA, 2016)*. For diesel particulate matter, Primary Exhaust PM₁₀ – Total was selected, and only the results for diesel fuel vehicles were included in the MSAT inventory results. To model polycyclic organic matter, the polycyclic aromatic hydrocarbons were selected. This includes naphthalene, which was included separately in the MSAT inventory results.

Only the emission processes that occur on roadways were selected: running exhaust, crankcase exhaust, evaporative emissions (evap) permeation (escape through plastic or rubber components like fuel lines and tanks), and evaporative fuel leaks (escape through damage or cracked parts).

4 Potential Effects

4.1 Carbon Monoxide Microscale Analysis

Screening Analysis. As described below, the results of the CO screening analysis show that none of the signalized intersections in the study area warrant a CO microscale air quality analysis. All six signalized intersections analyzed are projected to operate at a LOS D or worse for at least one of the peak traffic periods. See Table 5.

Table 5: Projected Levels of Service

Intersection	Alternatives A, B, and C			
	2030		2050	
	AM	PM	AM	PM
Boston/Vyse/CBE Service	C	C	C	C
Boston/Vyse/East 176 th	D	D	E	D
Rosedale/CBE Service South	C	C	C	C
Rosedale/CBE Service North	B	C	B	B
177 th /Sheridan/Devoe	C	D	C	C
CBE Service Road S Extension/ Bronx River	N/A	N/A	N/A	N/A

It was assumed that at least one of the capture criteria would be met at each of these intersections, and therefore, a volume threshold screening analysis was conducted for each intersection. The highest peak hour traffic volume for any single approach was determined for each intersection for Alternatives A, B, and C. See Table 6.

Table 6: Highest Peak Hour Approach Volume

Location	Alternatives A, B, and C	
	2030	2050
Boston Road at Vyse Avenue/CBE Service Road North	388	352
Boston Road at Vyse Avenue/East 176 th Street	446	437
Rosedale Avenue at CBE Service Road South	483	483
Rosedale Avenue at CBE Service Road North	1110	1105
East 177 th Street at Sheridan Boulevard/Devoe Avenue	1012	1041
CBE Service Road South Extension/Bronx River	N/A	N/A

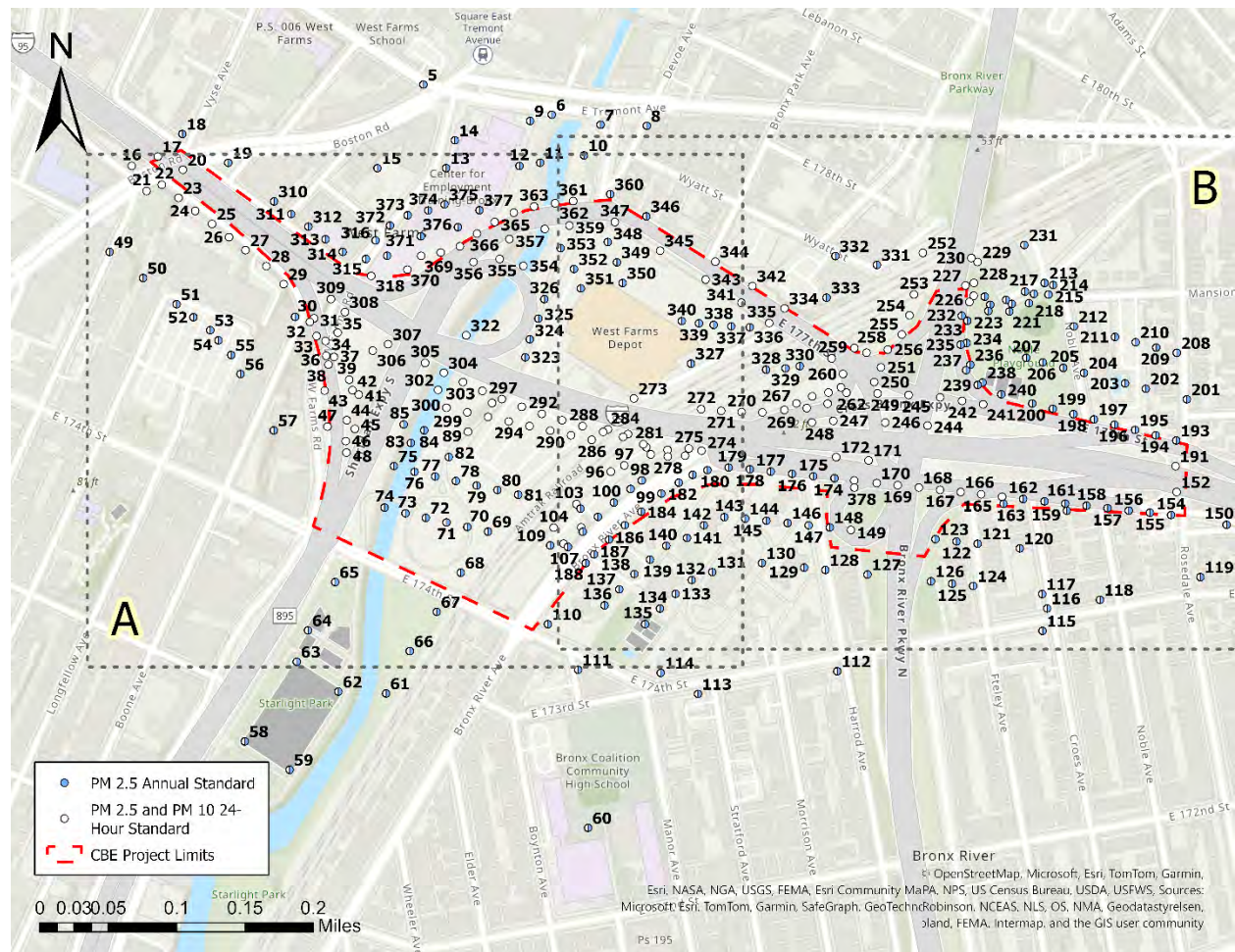
All traffic volumes shown in Table 6 are below the volume threshold criteria of 4,000 vehicles in the peak hour. This volume threshold was determined by emission factors obtained from the USEPA MOVES2014b model for Bronx County. The free flow emission factors are all below 6.3 grams/mile and 4.1 grams/mile for 2030 and 2050, respectively. Idle emission factors were approximately 1.3 grams/hour and 0.7 grams/hour for 2030 and 2050, respectively. Since traffic volumes for 2040 (ETC+10) are expected to be lower than volumes for 2050, they would also be below the volume threshold criteria in the peak hour. Therefore, a CO microscale air quality analysis is not warranted, and the Project would have no substantial effect on CO concentrations.

4.2 PM_{2.5} Microscale Analysis

AERMOD was run to provide the annual average PM_{2.5} concentrations at each modeled receptor (see Figure 1). For the receptor with the maximum modeled concentration (in each analysis year), the following steps were used to determine the design value for comparison to the NAAQS, as outlined in USEPA’s guidance.

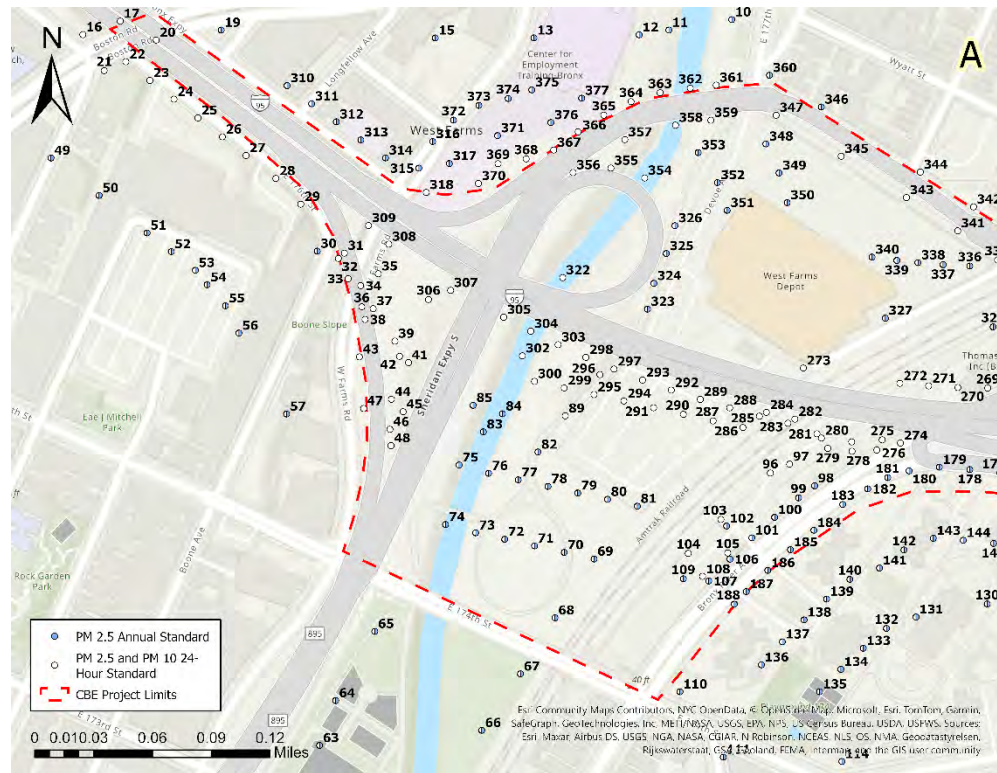
- Obtain the average concentration for the receptor with the maximum modeled concentration from AERMOD output.
- Add the average background concentration to the average modeled concentration to determine the total average annual concentration.

Figure 1: PM Microscale Analysis Receptor Locations



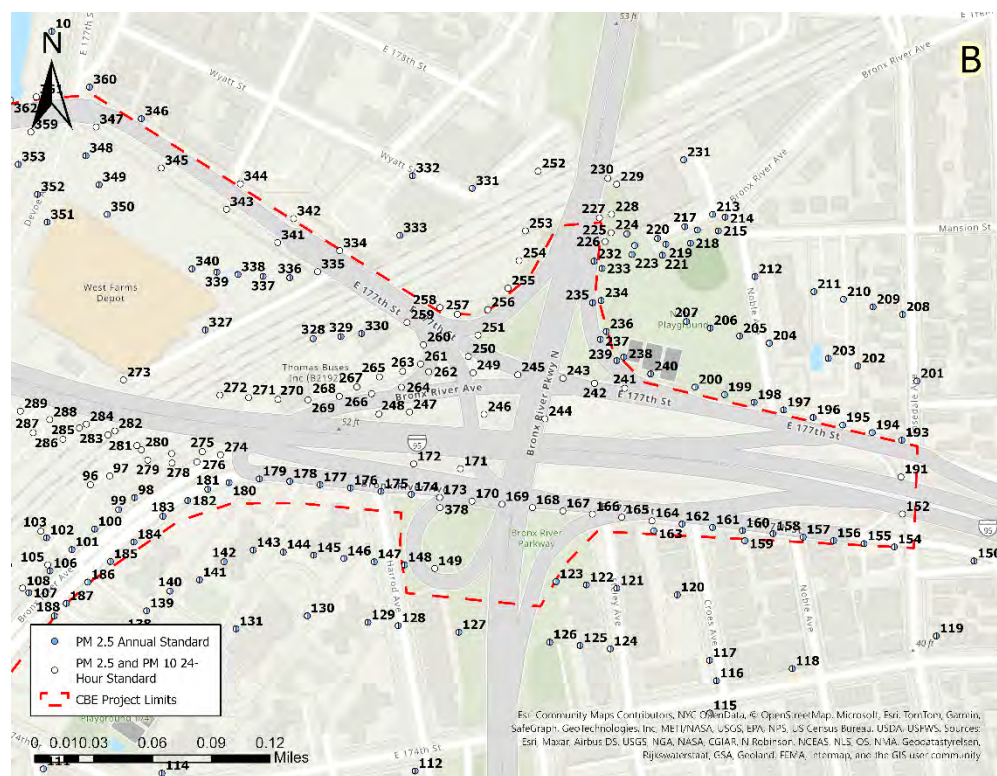
Note: Not all receptor locations were analyzed for each alternative.

Figure 1A: PM Microscale Analysis Receptor Locations (West)



Note: Not all receptor locations were analyzed for each alternative.

Figure 1B: PM Microscale Analysis Receptor Locations (East)



Note: Not all receptor locations were analyzed for each alternative.

Although a hot-spot analysis for this Project was not required for transportation conformity purposes, if it were required, the Project would conform if all receptors are below the NAAQS under Alternatives A, B, and C, or if all receptors above the NAAQS are lower under Alternatives A, B, and C than the No Build Alternative. The microscale analysis conducted for this Project shows that the Project would pass for transportation conformity.

Table 7 and Table 8 provide the 2030 and 2050 No Build PM_{2.5} concentration results, respectively. The results represent the receptor with the highest modeled concentration. The predicted concentrations are well below the NAAQS for the 24-hour average. For the annual average standard, the predicted concentrations exceed the NAAQS at 35 receptors for the 2030 No Build Alternative and at 21 receptors for the 2050 No Build Alternative. The 2050 highest concentrations are lower compared to the 2030 highest concentration as a result of fleet turnover and more stringent emission standards regulations.

Table 7 and Table 8 also provide the 2030 and 2050 PM_{2.5} highest modeled concentration results from vehicular operations for Alternatives A, B, and C, respectively. As shown, the highest PM_{2.5} concentrations for Alternatives A, B, and C are lower than the No Build Alternative because traffic operations would be improved through the project area, which overall would result in higher operating speeds and lower PM_{2.5} emissions.

- In 2030, the annual average highest concentration for Alternatives A, B, and C is 1.4 µg/m³. The 2030 No Build highest concentration is 2.7 µg/m³. There are 14 receptors under Alternatives A, B, and C where the annual average standard is exceeded. However, at all of these receptors, the Alternative A, B, and C concentration is lower than the No Build concentration because traffic operations would be improved through the project area, which overall would result in higher operating speeds and lower PM_{2.5} emissions.
- In 2030, the 24-hour average highest concentration for Alternatives A, B, and C is 4.7 µg/m³. The 2030 No Build highest concentration is 7.9 µg/m³. There are no exceedances of the 24-hour average standard under the 2030 Alternatives A, B, and C.
- In 2050, the annual average highest concentration for Alternatives A, B, and C is 1.1 µg/m³. The 2030 No Build highest concentration is 2.3 µg/m³. There are no exceedances of the annual average standard under the 2050 Alternatives A, B, and C.
- In 2050, the 24-hour average highest concentration for the Alternatives A, B, and C is 4.2 µg/m³. The 2030 No Build highest concentration is 7.2 µg/m³. There are no exceedances of the 24-hour average standard under the 2050 Alternatives A, B, and C.

Table 7: 2030 PM_{2.5} Highest Concentrations (µg/m³)

Standard	Modeled Concentration	Background	Total	NAAQS
No Build Alternative				
Annual Average PM _{2.5}	2.7	7.9	10.6	9
24-hr Average PM _{2.5}	7.9	20.0	27.9	35
Alternatives A, B, and C				
Annual Average PM _{2.5}	1.4	7.9	9.3	9
24-hr Average PM _{2.5}	4.7	20.0	24.7	35

Note: The number of receptors modeled vary between Alternatives A, B, and C to account for receptors along the SUP and greenway connection. However, the highest modeled concentrations are at the same receptors for Alternatives A, B, and C and are not along the SUP or greenway connection.

Table 8: 2050 PM_{2.5} Highest Concentrations (µg/m³)

Standard	Modeled Concentration	Background	Total	NAAQS
No Build Alternative				
Annual Average PM _{2.5}	2.3	7.9	10.2	9
24-hr Average PM _{2.5}	7.2	20.0	27.2	35
Alternatives A, B, and C				
Annual Average PM _{2.5}	1.1	7.9	9.0 (8.9689)	9
24-hr Average PM _{2.5}	4.2	20.0	24.2	35

Note: The maximum annual average PM_{2.5} concentrations for Alternatives A, B, and C are all below 9.0 and round up to 9.0. There are no PM_{2.5} exceedances of the NAAQS for Alternatives A, B, and C. Unrounded results are shown in parentheses. The number of receptors modeled vary between Alternatives A, B, and C to account for receptors along the SUP and greenway connection. However, the highest modeled concentrations are at the same receptors for Alternatives A, B, and C and are not along the SUP or greenway connection.

Modeled concentrations for Alternatives A, B, and C are the same because the proposed roadway improvements and traffic are the same regardless of if the SUP is present. There are 36 receptors located on the SUP and greenway connection. The maximum concentrations are not at these SUP and greenway connection-only receptors. The PM_{2.5} concentrations are higher adjacent to the Cross Bronx Expressway and other roadways and are lower at the receptors located farther from the transportation corridor. The highest concentrations are predicted along the Cross Bronx Expressway and near the Bronx River Parkway. Air Quality Appendix Attachment 2 contains the modeling results for the PM_{2.5} annual average concentrations. This includes tables of the modeled concentrations at all receptors, graphics that identify whether Alternatives A, B, and C concentrations are higher or lower than the No Build Alternative concentrations, and isopleth plots of the modeled results for each alternative. Air Quality Appendix Attachment 3 contains the same information for the PM_{2.5} 24-hour average concentrations.

As part of the PM_{2.5} microscale analysis, predicted concentrations for Alternatives A, B, and C were compared to the No Build Alternative predicted concentrations for all applicable receptors (see Section 3.3.8). A summary of this comparison is provided in Tables 9 and Table 10. As shown in these tables, although some receptors under Alternatives A, B, and C would have higher predicted concentrations than under the No Build Alternative, the vast majority of the receptors would have lower predicted concentrations and, overall, air quality is improved in the project area.

- PM_{2.5} annual average concentrations:** Predicted concentrations for Alternatives A, B, and C are lower at 206 of the 210 receptors analyzed (98 percent). At the receptors where the predicted concentration for Alternatives A, B, and C is greater than the No Build Alternative, the greatest increase is 0.1 µg/m³. The receptors with the greatest increase are located near the intersection of the Cross Bronx Expressway Service Road and Longfellow Avenue in 2030. These receptors are on the sidewalk directly adjacent to residential development and the Metro Community Health Center. In 2050, the receptors with the greatest increase are located on the north side of 177th Street between Devoe Avenue and Bronx Park Avenue. These receptors are on the sidewalk directly adjacent to multi-family residential development. While these receptors are on sidewalks, they were included in the assessment due to their proximity to residential development and a health facility where no other nearby receptors were evaluated. The few locations where Alternatives A, B, and C concentrations exceed the No Build Alternative concentration are located on sidewalks or close to the project area roadways. Alternatives A, B, and C

concentrations are lower than the No Build Alternative concentrations at locations farther away from the project area roadways where people are more likely to be outside for longer periods. The greatest decrease with Alternatives A, B, and C is 1.3 $\mu\text{g}/\text{m}^3$.

- PM_{2.5} 24-hour average concentrations:** Depending on the analysis year, predicted concentrations with Alternatives A, B, and C are lower at 306 or 311 of the 324 receptors analyzed (94 or 96 percent). At the receptors where Alternatives A, B, and C predicted concentration is greater than the No Build Alternative, the greatest increases range from 1.0 to 1.1 $\mu\text{g}/\text{m}^3$. The receptors with the greatest increase are located between the Cross Bronx Expressway and Bronx River Avenue, west of 177th Street. This location is within the roadway right-of-way but accessible to the public. The receptors where Alternatives A, B, and C concentrations are higher than the No Build concentration are located on sidewalks or paths or close to the project area roadways. All of the Alternative A, B, and C concentrations are lower than the No Build Alternative concentrations at locations farther away from the project area roadways where people are more likely to be outside for longer periods. The greatest decreases with Alternatives A, B, and C range from 4.3 to 4.6 $\mu\text{g}/\text{m}^3$.

Table 9: Alternatives A, B, and C versus No Build Alternative – PM_{2.5} Annual Standard (210 Receptors)

Comparison	2030 Alternatives A, B, and C	2050 Alternatives A, B, and C
No. of Receptors - Alternatives A, B, and C Greater than No Build	4	4
No. of Receptors - Alternatives A, B, and C Less than No Build	206	206
Greatest Increase Alternatives A, B, and C versus No Build ($\mu\text{g}/\text{m}^3$)	0.1	0.1
Greatest Decrease Alternatives A, B, and C versus No Build ($\mu\text{g}/\text{m}^3$)	-1.3	-1.3

Note: All applicable receptors were compared to the No Build Alternative predicted concentrations.

Table 10: Alternatives A, B, and C versus No Build Alternative – PM_{2.5} 24-Hour Standard (324 Receptors)

Comparison	2030 Alternatives A, B, and C	2050 Alternatives A, B, and C
No. of Receptors - Alternatives A, B, and C Greater than No Build	13	18
No. of Receptors - Alternatives A, B, and C Less than No Build	311	306
Greatest Increase Alternatives A, B, and C versus No Build ($\mu\text{g}/\text{m}^3$)	1.0	1.1
Greatest Decrease Alternatives A, B, and C versus No Build ($\mu\text{g}/\text{m}^3$)	-4.6	-4.3

Note: All applicable receptors were compared to the No Build Alternative predicted concentrations. Receptors modeled with Alternatives A and B along the SUP and greenway connection do not have corresponding No Build receptors and are therefore not considered applicable receptors. All applicable receptors are common among Alternatives A, B, and C.

Based on the results of the PM_{2.5} microscale analysis, total predicted emissions concentrations would remain below the NAAQS for the PM_{2.5} 24-hour standard. The 2050 Alternatives A, B,

and C would not exceed the PM_{2.5} annual average standard. There are 14 exceedances of this standard with the 2030 Alternatives A, B, and C. However, at all of these receptors, the predicted concentration with Alternatives A, B, and C is lower than the No Build Alternative predicted concentration. Additionally, the vast majority of receptors analyzed would have lower (better) PM_{2.5} concentrations under Alternatives A, B, and C. Thus, overall, air quality would be improved in the project area. Based on the results of the analyses, Alternatives A, B, and C would not result in an adverse effect related to PM_{2.5}.

4.3 PM₁₀ Microscale Analysis

Table 11 provides the 2030 and 2050 PM₁₀ concentration results for the No Build Alternative and Alternatives A, B, and C at the receptors with the highest concentrations. The predicted concentrations are all well below the NAAQS. As stated above with PM_{2.5}, a hot-spot analysis for this Project was not required for transportation conformity purposes. If it were required, the Project would conform if all receptors are below the NAAQS under Alternatives A, B, and C, or if all receptors above the NAAQS are lower under Alternatives A, B, and C than the No Build Alternative. The microscale analysis conducted for this Project shows that the Project would pass for transportation conformity.

As shown, the highest PM₁₀ concentrations under Alternatives A, B, and C are substantially lower than the highest PM₁₀ concentration under the No Build Alternative because traffic operations would be improved through the project area, which overall would result in higher operating speeds and lower PM₁₀ emissions.

- In 2030, the 24-hour average highest concentration for Alternatives A, B, and C is 53 µg/m³. The 2030 No Build concentration is 90 µg/m³.
- In 2050, the 24-hour average highest concentration for Alternatives A, B, and C is 52 µg/m³. The 2050 No Build concentration is 90 µg/m³.

Table 11: 2030 and 2050 PM₁₀ Highest Concentrations (µg/m³)

	Modeled Concentration	Background	Total	NAAQS
No Build Alternative				
2030 Highest 24-hr Average	90	37	127	150
2050 Highest 24-hr Average	90	37	127	150
Alternatives A, B, and C				
2030 Highest 24-hr Average	53	37	90	150
2050 Highest 24-hr Average	52	37	89	150

Note: The number of receptors modeled vary between Alternatives A, B, and C to account for receptors along the SUP and greenway connection. However, the highest modeled concentrations are at the same receptors for Alternatives A, B, and C and are not along the SUP or greenway connection.

Modeled concentrations for Alternatives A, B, and C with SUP and greenway connection and Alternatives A, B, and C without SUP are the same because the proposed roadway improvements and traffic are the same regardless of if the SUP is present. There are 36 receptors located on the SUP and greenway connection. The maximum concentrations are not at these SUP and greenway connection-only receptors. The PM₁₀ concentrations are higher adjacent to the Cross Bronx Expressway and other roadways and are lower at the receptors located farther from the transportation corridor. The highest concentrations are predicted along the Cross Bronx Expressway and near the Bronx River Parkway. Air Quality Appendix Attachment 4 contains the modeling results from the PM₁₀ microscale analysis. This includes tables of the modeled concentrations at all receptors, graphics that identify whether the Alternative A, B, and C concentrations are higher or lower than the No Build Alternative concentrations, and isopleth plots of the modeled results for each alternative.

As part of the PM₁₀ microscale analysis, predicted concentrations with Alternatives A, B, and C were compared to the No Build Alternative predicted concentrations for all applicable receptors (see Section 3.3.8). A summary of this comparison is provided in Table 12. As shown in these tables, although some receptors under Alternatives A, B, and C would have higher predicted concentrations than under the No Build Alternative, overall air quality is improved in the project area

under Alternatives A, B, and C.

- PM₁₀ 24-hour average concentrations:** Depending on the analysis year, predicted concentrations with Alternatives A, B, and C are lower at 290 or 291 of the 324 receptors analyzed (90 percent). At the receptors where Alternatives A, B, and C predicted concentrations are greater than the No Build Alternative, the greatest increases range from 13 to 14 µg/m³. The receptors with the greatest increase are located between the Cross Bronx Expressway and Bronx River Avenue, west of 177th Street. This location is within the roadway right-of-way but accessible to the public. Generally, receptors where the Alternative A, B, and C concentration is higher than the No Build concentration are located on sidewalks or paths or close to the project area roadways. The exceptions are two receptors located between Emolior Academy and the Bronx River, south of Tremont Avenue, and at one of the receptors in Starlight Park. The increase at these receptors is 0.3 µg/m³ or less, with the overall concentrations well below the NAAQS. All of the other Alternative A, B, and C concentrations are lower than the No Build Alternative concentrations at locations farther away from the project area roadways where people are more likely to be outside for longer periods. The greatest decreases with Alternatives A, B, and C range from 51 to 52 µg/m³.

Table 12: Alternatives A, B, and C versus No Build Alternative – PM₁₀ 24-Hour Standard (324 Receptors)

Comparison	2030 Alternatives A, B, and C	2050 Alternatives A, B, and C
No. of Receptors - Alternatives A, B, and C Greater than No Build	33	34
No. of Receptors - Alternatives A, B, and C Less than No Build	291	290
Greatest Increase Alternatives A, B, and C versus No Build (µg/m ³)	13	14
Greatest Decrease Alternatives A, B, and C versus No Build (µg/m ³)	-52	-51

Note: All applicable receptors were compared to the No Build Alternative predicted concentrations. Receptors modeled with Alternatives A and B along the SUP and greenway connection do not have corresponding No Build receptors and are therefore not considered applicable receptors. All applicable receptors are common among Alternatives A, B, and C.

Based on the results of the PM₁₀ microscale analysis, total predicted emissions concentrations would remain below the NAAQS for the PM₁₀ 24-hour standard. Additionally, the vast majority of receptors analyzed would have lower (better) PM₁₀ concentrations under Alternatives A, B, and C. Thus, overall, air quality would be improved in the project area. Based on the results of the analyses, Alternatives A, B, and C would not result in an adverse effect related to PM₁₀.

4.4 Mesoscale Analysis

Table 13 presents the regional emissions burdens of CO, NO_x, volatile organic compounds (VOC), PM₁₀ and PM_{2.5} under the No Build Alternative and Alternatives A, B, and C. NO_x and VOCs are quantified because they are precursor pollutants to the formation of O₃ and secondary PM. Alternatives A, B, and C pollutant emissions range from 3 percent lower to 2 percent higher than the No Build Alternative depending on pollutant and analysis year. Overall, Alternatives A, B, and C VMT is projected to be 2 percent higher than the No Build Alternative in both analysis years. However, due to slight changes in the vehicle mix under Alternatives A, B, and C, the changes in pollutant emissions are not directly proportional to the change in VMT. The change in vehicle mix is an increase in the percentage of passenger cars and trucks and a decrease in the percentage of heavy trucks operating in the study area. As part of the mesoscale analysis, vehicular speed was conservatively set to be identical between the No Build Alternative and Alternatives A, B, and C. The mesoscale results do not account for improved operating speed and improved traffic flow projected under Alternatives A, B, and C.

Table 13: Mesoscale Analysis

Analysis Year	Alternative	Tons per Year					
		Annual VMT	CO	NO _x	VOC	PM ₁₀	PM _{2.5}
2030	No Build	160,541,454	265.38	58.82	4.20	50.44	2.43
	Alternatives A, B, and C	164,202,974	269.55	57.20	4.22	51.28	2.43
	Difference versus No Build	3,661,520	4.16	-1.62	0.02	0.83	0.00
	% Difference versus No Build	2%	2%	-3%	1%	2%	0%
2050	No Build	162,138,556	165.29	20.51	2.68	50.47	2.13
	Alternatives A, B, and C	165,867,933	167.57	19.98	2.71	51.35	2.14
	Difference versus No Build	3,729,377	2.28	-0.53	0.03	0.89	0.01
	% Difference versus No Build	2%	1%	-3%	1%	2%	1%

The VMT estimated for Alternatives A, B, and C is 2 percent higher than that for the No Build Alternative because the proposed improvements would increase the efficiency of the roadway, attract rerouted trips from elsewhere in the transportation network, and overall allow more throughput in the analysis area. However, overall mobility in the study area would be improved. Under Alternatives A, B, and C, pollutant emissions would be reduced between 2030 and 2050 due to USEPA's stricter emission standards for new vehicles and fleet turnover. Based on these results, no adverse effect is anticipated with Alternatives A, B, and C.

4.5 Mobile Source Air Toxics (MSATS) Analysis

Table 14 and Table 15 show the results of the quantitative MSAT analysis.

Table 14: 2030 Quantitative MSAT Analysis (Tons/Year)

Pollutant	Alternative	
	No Build	Alternatives A, B, and C
1,3-Butadiene	0.0008	0.0007
Acetaldehyde	0.2220	0.2229
Acrolein	0.0065	0.0065
Benzene	0.1033	0.1054
Diesel Particulate Matter	0.2651	0.2566
Ethylbenzyne	0.0973	0.0992
Formaldehyde	0.2736	0.2754
Naphthalene	0.0074	0.0074
Polycyclic Organic Matter	0.0029	0.0029
Percent Change Compared to the No Build Alternative		
1,3-Butadiene		-0.5%
Acetaldehyde		0.4%
Acrolein		-1.4%
Benzene		2.0%
Diesel Particulate Matter		-3.2%
Ethylbenzyne		1.9%
Formaldehyde		0.7%
Naphthalene		0.5%
Polycyclic Organic Matter		0.9%

Note: Due to rounding of the MSAT emissions presented in this table, the percent change calculations cannot be replicated.

As shown in Table 13, VMT is projected to be 2 percent higher under Alternatives A, B, and C than that under the No Build Alternative because the proposed improvements would increase the efficiency of the roadway, attract rerouted trips from elsewhere in the transportation network, and overall allow more throughput in the analysis area. Typically, this would result in a similar increase in MSAT emissions. However, there is a change in vehicle mix with Alternatives A, B, and C, and as a result, the MSAT emission change under Alternatives A, B, and C is not directly proportional to the change in VMT. The change in vehicle mix is an increase in the percentage of passenger cars and trucks and a decrease in the percentage of heavy trucks operating in the study area. As presented in Table 14, for year 2030, acetaldehyde, benzene, ethylbenzene, formaldehyde, naphthalene, and polycyclic organic matter are generally slightly higher (up to 2 percent) under Alternatives A, B, and C. 1,3-butadiene, acrolein, and diesel particulate matter are slightly lower (up to 3

percent) under Alternatives A, B, and C. As presented in Table 15, similar results are projected for 2050 when evaluating the relationship between the No Build Alternative and Alternatives A, B, and C.

Table 15: 2050 Quantitative MSAT Analysis (Tons/Year)

Pollutant	Alternative	
	No Build	Alternatives A, B, and C
1,3-Butadiene	0.0000	0.0000
Acetaldehyde	0.1699	0.1719
Acrolein	0.0028	0.0027
Benzene	0.0617	0.0633
Diesel Particulate Matter	0.0729	0.0704
Ethylbenzyne	0.0600	0.0612
Formaldehyde	0.1974	0.2003
Naphthalene	0.0027	0.0027
Polycyclic Organic Matter	0.0011	0.0011
Percent Change Compared to the No Build Alternative		
1,3-Butadiene		0.0%
Acetaldehyde		1.2%
Acrolein		-1.3%
Benzene		2.5%
Diesel Particulate Matter		-3.4%
Ethylbenzyne		2.1%
Formaldehyde		1.5%
Naphthalene		1.9%
Polycyclic Organic Matter		1.9%

Note: Due to rounding of the MSAT emissions presented in this table, the percent change calculations cannot be replicated.

Under Alternatives A, B, and C, emissions are projected to be lower in 2050 compared to present levels as a result of USEPA's national control programs, which are projected to reduce annual MSAT emissions by over 76 percent between 2020 and 2060 (Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents, Federal Highway Administration, January 18, 2023). Local conditions may differ from these national projections in terms of fleet mix and turnover, VMT growth rates, and local control measures. However, the magnitude of the USEPA-projected reductions is so great (even after accounting for VMT growth) that MSAT emissions in the study area are likely to be lower in the future in nearly all cases. Based on these results, no adverse effect is anticipated with the implementation of Alternatives A, B, and C.

Incomplete or Unavailable Information for Project-Specific MSAT Health Impacts Analysis. In FHWA's view, information is incomplete or unavailable to credibly predict the project-specific health impacts due to changes in MSAT emissions associated with a proposed set of highway alternatives. The outcome of such an assessment, adverse or not, would be influenced more by the uncertainty introduced into the process through assumption and speculation rather than any genuine insight into the actual health impacts directly attributable to MSAT exposure associated with a proposed action.

USEPA is responsible for protecting the public health and welfare from any known or anticipated effect of an air pollutant. They are the lead authority for administering the CAA and its amendments and have specific statutory obligations with respect to hazardous air pollutants and MSAT. USEPA is in the continual process of assessing human health effects, exposures, and risks posed by air pollutants. They maintain the Integrated Risk Information System (IRIS), which is "a compilation of electronic reports on specific substances found in the environment and their potential to cause human health effects" (USEPA, <https://www.epa.gov/iris/>). Each report contains assessments of non-cancerous and cancerous effects for individual compounds and quantitative estimates of risk levels from lifetime oral and inhalation exposures with uncertainty spanning perhaps an order of magnitude.

Other organizations are also active in the research and analyses of the human health effects of MSATs, including the Health Effects Institute (HEI). A number of HEI studies are summarized in Appendix D of FHWA's Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents. Among the adverse health effects linked to MSAT compounds at high exposures are cancer in humans in occupational settings, cancer in animals, and irritation to the respiratory tract, including the exacerbation of asthma. Less obvious is the adverse human health effects of MSAT compounds at current environmental concentrations (HEI Special Report 16, <https://www.healtheffects.org/publication/mobile-source-air-toxics-critical-reviewliterature-exposure-and-health-effects>) or in the future as vehicle emissions substantially decrease.

The methodologies for forecasting health impacts include emissions modeling, dispersion modeling, exposure modeling, and then final determination of health impacts – each step in the process building on the model predictions obtained in the previous step. All are encumbered by technical shortcomings or uncertain science that prevents a more complete differentiation of the MSAT health impacts among a set of project alternatives. These difficulties are magnified for lifetime (i.e., 70 year) assessments, particularly because unsupportable assumptions would have to be made regarding changes in travel patterns and vehicle technology (which affects emissions rates) over that time frame, since such information is unavailable.

It is particularly difficult to reliably forecast 70-year lifetime MSAT concentrations and exposure near roadways, to determine the portion of time that people are actually exposed at a specific location, and to establish the extent attributable to a proposed action, especially given that some of the information needed is unavailable.

There are considerable uncertainties associated with the existing estimates of toxicity of the various MSATs, because of factors such as low-dose extrapolation and translation of occupational exposure data to the general population, a concern expressed by HEI (Special Report 16, <https://www.healtheffects.org/publication/mobile-source-air-toxicscritical-review-literature-exposure-and-health-effects>). As a result, there is no national consensus on air dose-response values assumed to protect the public health and welfare for MSAT compounds, and in particular for diesel PM

. The USEPA states that with respect to diesel engine exhaust, “[t]he absence of adequate data to develop a sufficiently confident dose-response relationship from the epidemiologic studies has prevented the estimation of inhalation carcinogenic risk.” (EPA IRIS database, Diesel Engine Exhaust, Section II.C. https://iris.epa.gov/static/pdfs/0642_summary.pdf).

There is also the lack of a national consensus on an acceptable level of risk. The current context is the process used by the USEPA as provided by the CAA to determine whether more stringent controls are required in order to provide an ample margin of safety to protect public health or to prevent an adverse environmental effect for industrial sources subject to the maximum achievable control technology standards, such as benzene emissions from refineries. The decision framework is a two-step process. The first step requires USEPA to determine an “acceptable” level of risk due to emissions from a source, which is generally no greater than approximately 100 in a million.

Additional factors are considered in the second step, the goal of which is to maximize the number of people with risks less than 1 in a million due to emissions from a source. The results of this statutory two-step process do not guarantee that cancer risks from exposure to air toxics are less than 1 in a million; in some cases, the residual risk determination could result in maximum individual cancer risks that are as high as approximately 100 in a million. In a June 2008 decision, the U.S. Court of Appeals for the District of Columbia Circuit upheld USEPA’s approach to addressing risk in its two-step decision framework. Information is incomplete or unavailable to establish that even the largest of highway projects would result in levels of risk greater than deemed acceptable ([https://www.cadc.uscourts.gov/internet/opinions.nsf/284E23FFE079CD59852578000050C9DA/\\$file/07-1053-1120274.pdf](https://www.cadc.uscourts.gov/internet/opinions.nsf/284E23FFE079CD59852578000050C9DA/$file/07-1053-1120274.pdf)).

Because of the limitations in the methodologies for forecasting health impacts described, any predicted difference in health impacts between alternatives is likely to be much smaller than the uncertainties associated with predicting the impacts. Consequently, the results of such assessments would not be useful to decision makers, who would need to weigh this information against project benefits, such as reducing traffic congestion, accident rates, and fatalities plus improved access for emergency response, that are better suited for quantitative analysis.

4.6 Temporary Air Quality Effects Due to Construction-Related Activities

Temporary air quality effects from construction-related activities could include increases in particulate matter in the form of fugitive dust, as well as particulate matter in exhaust emissions from material delivery trucks, construction equipment, and worker's private vehicles. Measures incorporated in Alternatives A, B, and C to avoid and minimize temporary construction air quality effects include the following:

- Requiring the Contractor to use lower emission equipment (Tier 4 emissions standards), where appropriate and to the extent practicable. Contract provisions would require the Contractor to report at least monthly to the NYSDOT the total number of pieces of equipment over 50 horsepower used onsite and the number/type out of this total that met Tier 4 emissions standards. The Contractor would also be required to consider and report on the use of Diesel Particulate Filter retrofits on older equipment over 50 horsepower per NYSDOT Specification 696.0002 Diesel Engine Emission Control.
- Requiring the Contractor to prepare and implement a Dust Control Plan that includes proactive measures to prevent discharge of dust into the atmosphere. In areas not subject to traffic, apply products and materials including vegetative cover, mulch, and spray adhesives on soil surfaces to prevent airborne migration of soil particles. In areas subject to traffic, apply products and materials including water sprinkling, polymer additives, barriers, windbreaks, and wheel washing.
- Avoid locating diesel engines within 50 feet of sensitive receptors such as residences and schools where practicable.
- Limit idling time for diesel powered equipment per NYSDOT's standard specifications for delivery and dump trucks and all other diesel-powered equipment with limited exceptions⁵. The Contractor would be required to post signage notifying workers of the idling limit.

⁵ <https://www.dot.ny.gov/main/business-center/engineering/specifications/updated-standard-specifications-us>

Air Quality Appendix Attachment 1
Interagency Consultation Group Coordination

From: [Mani, Gautam \(FHWA\)](#)
To: [Kochersberger, Carl R. \(DOT\)](#); Daniel.moser@dot.gov; Black.lily@epa.gov; Tran.Hiep; laurita.matthew@epa.gov; [Bielawa, Robert D. \(DEC\)](#)
Cc: [Delano, Stephanie L \(DOT\)](#); [Neerackal, George \(DOT\)](#); [Savage, Laura E \(DOT\)](#); [Standley, Christopher \(DOT\)](#)
Subject: RE: Air Quality ICG - NEW WEBEX INFO for 2025 on
Date: Tuesday, April 8, 2025 10:55:07 AM

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hello Carl,

FHWA has reviewed the hot spot screening analysis and concurs that this is not a project of air quality concern per 40 CFR Part 93.123(b)(1).

We're still willing to meet tomorrow morning if other agencies have questions, and of course defer to other agencies who may reach different conclusions.

Thank you,
Gautam

Gautam Mani, AICP
Senior Community Planner
FHWA NY Division
(518) 431-8860
Gautam.mani@dot.gov

From: [Black, Lily](#)
To: [Kochersberger, Carl R. \(DOT\)](#); [Bielawa, Robert D \(DEC\)](#)
Cc: [Delano, Stephanie L \(DOT\)](#); [Neerackal, George \(DOT\)](#); [Savage, Laura E \(DOT\)](#); [Standley, Christopher \(DOT\)](#); Daniel.moser@dot.gov; gautam.mani@dot.gov; [Tran, Hiep](#); laurita.matthew@epa.gov
Subject: RE: Air Quality ICG - NEW WEBEX INFO for 2025 on
Date: Wednesday, April 9, 2025 9:17:36 AM

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Thanks, everyone, for meeting and discussing the project this morning.

EPA approves of the analysis and confirms that this is not a project of air quality concern. However, we are still looking forward to seeing the full analysis.

Thanks,
Lily

From: [Moser, Daniel \(FTA\)](#)
To: Black.lily@epa.gov; [Kochersberger, Carl R. \(DOT\)](#); [Bielawa, Robert D \(DEC\)](#)
Cc: [Delano, Stephanie L \(DOT\)](#); [Neerackal, George \(DOT\)](#); [Savage, Laura E \(DOT\)](#); [Standley, Christopher \(DOT\)](#); gautam.mani@dot.gov; [Tran, Hiep](#); laurita.matthew@epa.gov
Subject: RE: Air Quality ICG - NEW WEBEX INFO for 2025 on
Date: Wednesday, April 9, 2025 3:05:34 PM

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good Afternoon

Apologies for missing the call. After being debriefed by Gautam, FTA defers to FHWA and EPA on this project, and concurs with their conclusions.

Dan Moser
Lead Environmental Protection Specialist
Federal Transit Administration Region 2
(212) 668-2326

From: [Bielawa, Robert D. \(DEC\)](#)
To: [Kochersberger, Carl R. \(DOT\)](#)
Cc: [Delano, Stephanie L \(DOT\)](#); [Neerackal, George \(DOT\)](#); [Savage, Laura E \(DOT\)](#); [Standley, Christopher \(DOT\)](#); [gautam.mani@dot.gov](#); [Tran, Hiep](#); [laurita.matthew@epa.gov](#); [Black.lily@epa.gov](#); [Daniel.moser@dot.gov](#)
Subject: RE: Air Quality ICG - NEW WEBEX INFO for 2025 on
Date: Wednesday, April 9, 2025 5:25:56 PM

Good Afternoon Carl:

DEC concurs that this is not a project of air quality concern per 40 CFR Part 93.123(b)(1). Please let me know if you have any questions or need additional information.

Thank you,
Bob

ROBERT D. BIELAWA, P.E. (*he/him/his*)
Director, Bureau of Air Quality Planning

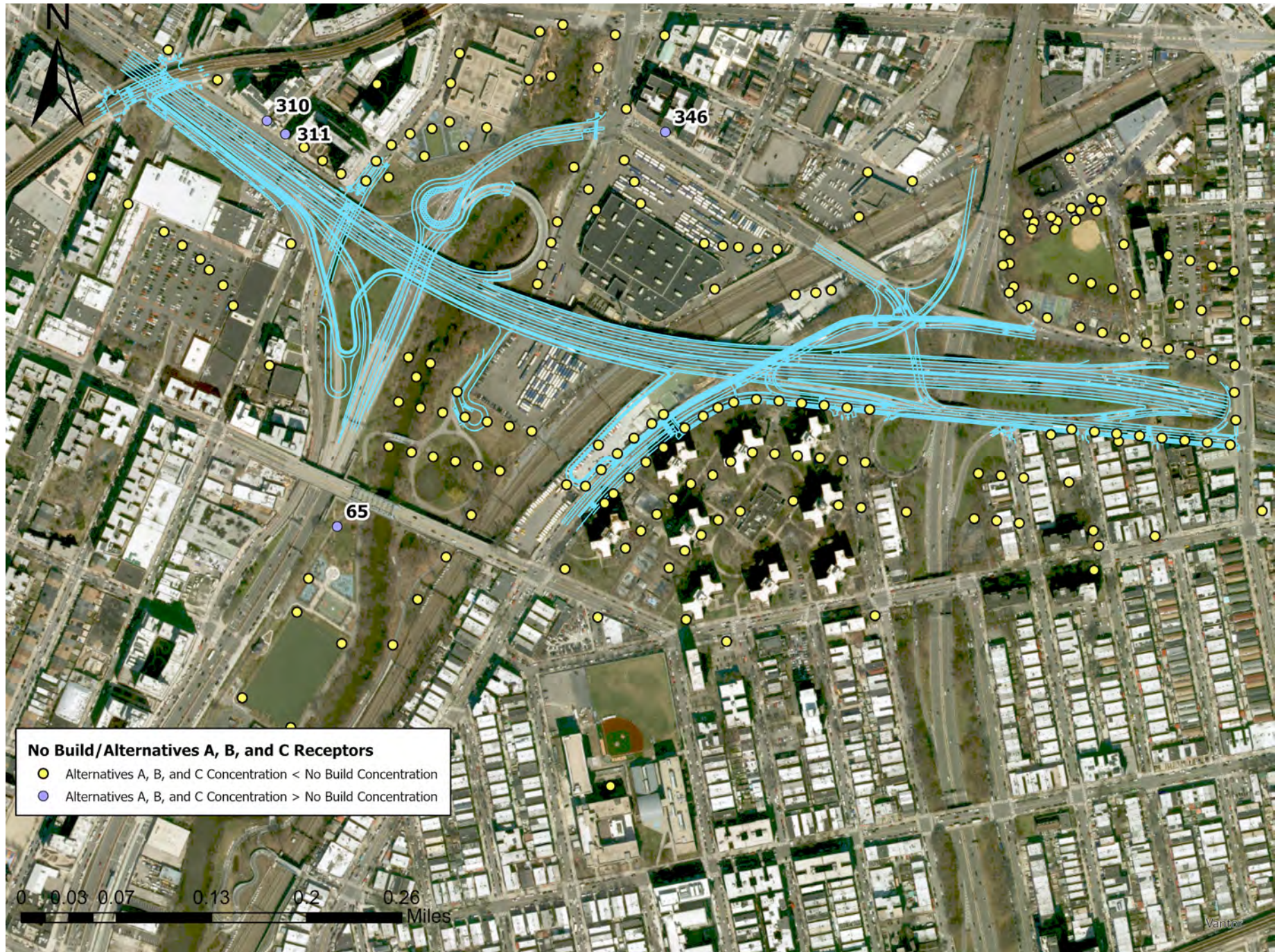
New York State Department of Environmental Conservation
Division of Air Resources | Bureau of Air Quality Planning
625 Broadway, Albany, NY 12233-3251
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dec.ny.gov | @NYSDEC on Social Media | [Podcast](#)

Air Quality Appendix Attachment 2
PM_{2.5} Annual Average Concentrations Microscale Results

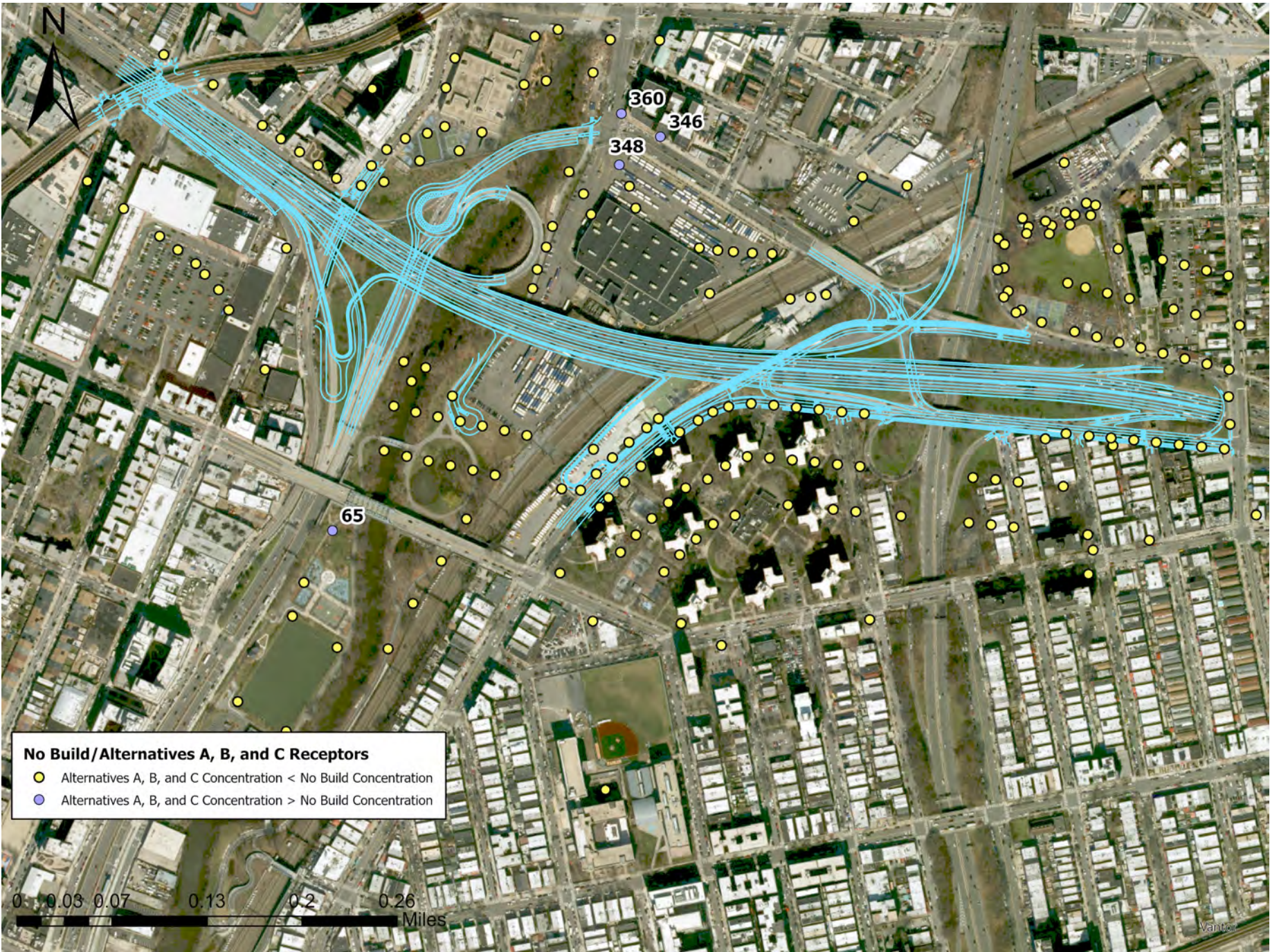
Attachment 2.1

2030 PM-2.5 Annual Average Concentrations

Alternatives A, B, and C versus No Build Alternative



Attachment 2.2
2050 PM-2.5 Annual Average Concentrations
Alternatives A, B, and C versus No Build Alternative



Attachment 2.3
2030 PM_{2.5} Annual Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-001	0.0123	0.0097	-0.0027	0.0097	-0.0027	0.0097	-0.0027
P-002	0.0513	0.0386	-0.0127	0.0386	-0.0127	0.0386	-0.0127
P-003	0.1161	0.0955	-0.0206	0.0955	-0.0206	0.0955	-0.0206
P-004	0.1207	0.0916	-0.0291	0.0916	-0.0291	0.0916	-0.0291
P-005	0.2104	0.1725	-0.0379	0.1725	-0.0379	0.1725	-0.0379
P-006	0.2102	0.1777	-0.0325	0.1777	-0.0325	0.1777	-0.0325
P-007	0.2133	0.1809	-0.0324	0.1809	-0.0324	0.1809	-0.0324
P-008	0.2066	0.1768	-0.0298	0.1768	-0.0298	0.1768	-0.0298
P-009	0.2233	0.1889	-0.0345	0.1889	-0.0345	0.1889	-0.0345
P-010	0.2555	0.2229	-0.0326	0.2229	-0.0326	0.2229	-0.0326
P-011	0.2772	0.2468	-0.0304	0.2468	-0.0304	0.2468	-0.0304
P-012	0.2986	0.2595	-0.0391	0.2595	-0.0391	0.2595	-0.0391
P-013	0.3236	0.2707	-0.0529	0.2707	-0.0529	0.2707	-0.0529
P-014	0.2712	0.2250	-0.0462	0.2250	-0.0462	0.2250	-0.0462
P-015	0.3663	0.2889	-0.0774	0.2889	-0.0774	0.2889	-0.0774
P-018	0.5769	0.4735	-0.1034	0.4735	-0.1034	0.4735	-0.1034
P-019	0.5576	0.5408	-0.0168	0.5408	-0.0168	0.5408	-0.0168
P-030	0.7901	0.6146	-0.1755	0.6146	-0.1755	0.6146	-0.1755
P-049	0.1894	0.1569	-0.0325	0.1569	-0.0325	0.1569	-0.0325
P-050	0.1993	0.1664	-0.0329	0.1664	-0.0329	0.1664	-0.0329
P-051	0.2172	0.1840	-0.0332	0.1840	-0.0332	0.1840	-0.0332
P-052	0.2260	0.1939	-0.0321	0.1939	-0.0321	0.1939	-0.0321
P-053	0.2389	0.2064	-0.0325	0.2064	-0.0325	0.2064	-0.0325
P-054	0.2456	0.2122	-0.0334	0.2122	-0.0334	0.2122	-0.0334
P-055	0.2512	0.2164	-0.0348	0.2164	-0.0348	0.2164	-0.0348
P-056	0.2882	0.2504	-0.0378	0.2504	-0.0378	0.2504	-0.0378
P-057	0.3400	0.2768	-0.0632	0.2768	-0.0632	0.2768	-0.0632
P-058	0.1180	0.0917	-0.0263	0.0917	-0.0263	0.0917	-0.0263
P-059	0.1195	0.0921	-0.0274	0.0921	-0.0274	0.0921	-0.0274
P-060	0.1439	0.1107	-0.0332	0.1107	-0.0332	0.1107	-0.0332
P-061	0.1759	0.1367	-0.0392	0.1367	-0.0392	0.1367	-0.0392
P-062	0.1596	0.1246	-0.0350	0.1246	-0.0350	0.1246	-0.0350
P-063	0.1603	0.1277	-0.0326	0.1277	-0.0326	0.1277	-0.0326
P-064	0.1888	0.1547	-0.0341	0.1547	-0.0341	0.1547	-0.0341
P-065	0.3244	0.3328	0.0084	0.3328	0.0084	0.3328	0.0084
P-066	0.2224	0.1763	-0.0461	0.1763	-0.0461	0.1763	-0.0461
P-067	0.2752	0.2149	-0.0603	0.2149	-0.0603	0.2149	-0.0603
P-068	0.3348	0.2551	-0.0797	0.2551	-0.0797	0.2551	-0.0797
P-069	0.4322	0.3191	-0.1131	0.3191	-0.1131	0.3191	-0.1131
P-070	0.4199	0.3152	-0.1047	0.3152	-0.1047	0.3152	-0.1047
P-071	0.4118	0.3176	-0.0942	0.3176	-0.0942	0.3176	-0.0942
P-072	0.4103	0.3299	-0.0804	0.3299	-0.0804	0.3299	-0.0804
P-073	0.4260	0.3610	-0.0650	0.3610	-0.0650	0.3610	-0.0650
P-074	0.4429	0.3786	-0.0643	0.3786	-0.0643	0.3786	-0.0643
P-075	0.6009	0.5223	-0.0786	0.5223	-0.0786	0.5223	-0.0786
P-076	0.5412	0.4476	-0.0936	0.4476	-0.0936	0.4476	-0.0936
P-077	0.5428	0.4224	-0.1204	0.4224	-0.1204	0.4224	-0.1204
P-078	0.5562	0.4262	-0.1300	0.4262	-0.1300	0.4262	-0.1300
P-079	0.5610	0.4354	-0.1256	0.4354	-0.1256	0.4354	-0.1256
P-080	0.5962	0.4222	-0.1740	0.4222	-0.1740	0.4222	-0.1740
P-081	0.6165	0.4324	-0.1841	0.4324	-0.1841	0.4324	-0.1841
P-082	0.6759	0.5041	-0.1718	0.5041	-0.1718	0.5041	-0.1718
P-083	0.6462	0.5347	-0.1115	0.5347	-0.1115	0.5347	-0.1115
P-084	0.7139	0.5824	-0.1315	0.5824	-0.1315	0.5824	-0.1315
P-085	0.8887	0.7605	-0.1283	0.7605	-0.1283	0.7605	-0.1283
P-098	1.1684	0.8189	-0.3495	0.8189	-0.3495	0.8189	-0.3495
P-099	1.0755	0.7351	-0.3404	0.7351	-0.3404	0.7351	-0.3404
P-100	0.9227	0.6400	-0.2827	0.6400	-0.2827	0.6400	-0.2827
P-101	0.8232	0.5622	-0.2610	0.5622	-0.2610	0.5622	-0.2610
P-102	0.7393	0.5174	-0.2219	0.5174	-0.2219	0.5174	-0.2219
P-106	0.7455	0.5004	-0.2451	0.5004	-0.2451	0.5004	-0.2451
P-107	0.6703	0.4487	-0.2216	0.4487	-0.2216	0.4487	-0.2216
P-109	0.5420	0.3946	-0.1474	0.3946	-0.1474	0.3946	-0.1474
P-110	0.3298	0.2518	-0.0780	0.2518	-0.0780	0.2518	-0.0780
P-111	0.2765	0.2081	-0.0685	0.2081	-0.0685	0.2081	-0.0685
P-112	0.3539	0.2604	-0.0935	0.2604	-0.0935	0.2604	-0.0935
P-113	0.2945	0.2120	-0.0825	0.2120	-0.0825	0.2120	-0.0825
P-114	0.3145	0.2261	-0.0884	0.2261	-0.0884	0.2261	-0.0884
P-115	0.4492	0.3401	-0.1091	0.3401	-0.1091	0.3401	-0.1091
P-116	0.5340	0.3977	-0.1363	0.3977	-0.1363	0.3977	-0.1363
P-117	0.6053	0.4435	-0.1618	0.4435	-0.1618	0.4435	-0.1618
P-118	0.5578	0.4072	-0.1506	0.4072	-0.1506	0.4072	-0.1506
P-119	0.5056	0.3847	-0.1209	0.3847	-0.1209	0.3847	-0.1209

Attachment 2.3

2030 PM_{2.5} Annual Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-120	0.9484	0.6492	-0.2992	0.6492	-0.2992	0.6492	-0.2992
P-121	1.0651	0.6887	-0.3764	0.6887	-0.3764	0.6887	-0.3764
P-122	1.1065	0.7211	-0.3854	0.7211	-0.3854	0.7211	-0.3854
P-123	1.1479	0.7812	-0.3667	0.7812	-0.3667	0.7812	-0.3667
P-124	0.6576	0.4799	-0.1777	0.4799	-0.1777	0.4799	-0.1777
P-125	0.6740	0.4957	-0.1783	0.4957	-0.1783	0.4957	-0.1783
P-126	0.7226	0.5280	-0.1946	0.5280	-0.1946	0.5280	-0.1946
P-127	0.7526	0.5380	-0.2146	0.5380	-0.2146	0.5380	-0.2146
P-128	0.7510	0.5034	-0.2476	0.5034	-0.2476	0.5034	-0.2476
P-129	0.7334	0.4914	-0.2420	0.4914	-0.2420	0.4914	-0.2420
P-130	0.6771	0.4603	-0.2168	0.4603	-0.2168	0.4603	-0.2168
P-131	0.5851	0.4087	-0.1764	0.4087	-0.1764	0.4087	-0.1764
P-132	0.5406	0.3827	-0.1579	0.3827	-0.1579	0.3827	-0.1579
P-133	0.4865	0.3479	-0.1386	0.3479	-0.1386	0.3479	-0.1386
P-134	0.4379	0.3147	-0.1232	0.3147	-0.1232	0.3147	-0.1232
P-135	0.3943	0.2852	-0.1091	0.2852	-0.1091	0.2852	-0.1091
P-136	0.4155	0.3089	-0.1066	0.3089	-0.1066	0.3089	-0.1066
P-137	0.4656	0.3441	-0.1215	0.3441	-0.1215	0.3441	-0.1215
P-138	0.5222	0.3817	-0.1405	0.3817	-0.1405	0.3817	-0.1405
P-139	0.5854	0.4267	-0.1587	0.4267	-0.1587	0.4267	-0.1587
P-140	0.6575	0.4756	-0.1819	0.4756	-0.1819	0.4756	-0.1819
P-141	0.7128	0.5116	-0.2012	0.5116	-0.2012	0.5116	-0.2012
P-142	0.8060	0.5799	-0.2261	0.5799	-0.2261	0.5799	-0.2261
P-143	0.8757	0.6236	-0.2521	0.6236	-0.2521	0.6236	-0.2521
P-144	0.8929	0.6312	-0.2617	0.6312	-0.2617	0.6312	-0.2617
P-145	0.9098	0.6330	-0.2768	0.6330	-0.2768	0.6330	-0.2768
P-146	0.9599	0.6593	-0.3006	0.6593	-0.3006	0.6593	-0.3006
P-147	1.0344	0.6900	-0.3444	0.6900	-0.3444	0.6900	-0.3444
P-148	1.1697	0.7479	-0.4218	0.7479	-0.4218	0.7479	-0.4218
P-150	1.0979	0.8514	-0.2465	0.8514	-0.2465	0.8514	-0.2465
P-154	1.4998	1.0755	-0.4243	1.0755	-0.4243	1.0755	-0.4243
P-155	1.6245	1.2159	-0.4086	1.2159	-0.4086	1.2159	-0.4086
P-156	1.6510	1.2361	-0.4149	1.2361	-0.4149	1.2361	-0.4149
P-157	1.5709	1.2584	-0.3125	1.2584	-0.3125	1.2584	-0.3125
P-158	1.5567	1.2487	-0.3080	1.2487	-0.3080	1.2487	-0.3080
P-159	1.4876	1.0848	-0.4028	1.0848	-0.4028	1.0848	-0.4028
P-160	1.6186	1.2551	-0.3635	1.2551	-0.3635	1.2551	-0.3635
P-161	1.9529	1.2999	-0.6530	1.2999	-0.6530	1.2999	-0.6530
P-162	2.6676	1.3836	-1.2840	1.3836	-1.2840	1.3836	-1.2840
P-163	2.5073	1.2421	-1.2652	1.2421	-1.2652	1.2421	-1.2652
P-174	1.9087	1.2581	-0.6506	1.2581	-0.6506	1.2581	-0.6506
P-175	1.7324	1.2270	-0.5054	1.2270	-0.5054	1.2270	-0.5054
P-176	1.6751	1.2521	-0.4230	1.2521	-0.4230	1.2521	-0.4230
P-177	1.6350	1.2561	-0.3789	1.2561	-0.3789	1.2561	-0.3789
P-178	1.6301	1.2446	-0.3855	1.2446	-0.3855	1.2446	-0.3855
P-179	1.6192	1.2258	-0.3934	1.2258	-0.3934	1.2258	-0.3934
P-180	1.5409	1.1270	-0.4139	1.1270	-0.4139	1.1270	-0.4139
P-181	1.4317	1.0273	-0.4045	1.0273	-0.4045	1.0273	-0.4045
P-182	1.2612	0.9105	-0.3507	0.9105	-0.3507	0.9105	-0.3507
P-183	1.0880	0.7893	-0.2987	0.7893	-0.2987	0.7893	-0.2987
P-184	0.8994	0.6452	-0.2543	0.6452	-0.2543	0.6452	-0.2543
P-185	0.7975	0.5694	-0.2281	0.5694	-0.2281	0.5694	-0.2281
P-186	0.7059	0.5063	-0.1996	0.5063	-0.1996	0.5063	-0.1996
P-187	0.6310	0.4554	-0.1756	0.4554	-0.1756	0.4554	-0.1756
P-188	0.5911	0.4294	-0.1617	0.4294	-0.1617	0.4294	-0.1617
P-189	0.0725	0.0573	-0.0153	0.0573	-0.0153	0.0573	-0.0153
P-193	1.1932	0.8503	-0.3429	0.8503	-0.3429	0.8503	-0.3429
P-194	1.2206	0.9771	-0.2435	0.9771	-0.2435	0.9771	-0.2435
P-195	1.1307	1.0146	-0.1162	1.0146	-0.1162	1.0146	-0.1162
P-196	1.1175	0.9932	-0.1243	0.9932	-0.1243	0.9932	-0.1243
P-197	1.0944	0.9253	-0.1691	0.9253	-0.1691	0.9253	-0.1691
P-198	1.0468	0.8713	-0.1755	0.8713	-0.1755	0.8713	-0.1755
P-199	1.0395	0.8505	-0.1890	0.8505	-0.1890	0.8505	-0.1890
P-200	1.0560	0.8721	-0.1839	0.8721	-0.1839	0.8721	-0.1839
P-201	0.5702	0.4457	-0.1245	0.4457	-0.1245	0.4457	-0.1245
P-202	0.5806	0.4592	-0.1214	0.4592	-0.1214	0.4592	-0.1214
P-203	0.6010	0.4762	-0.1248	0.4762	-0.1248	0.4762	-0.1248
P-204	0.6119	0.4614	-0.1505	0.4614	-0.1505	0.4614	-0.1505
P-205	0.6308	0.4676	-0.1632	0.4676	-0.1632	0.4676	-0.1632
P-206	0.6639	0.4771	-0.1868	0.4771	-0.1868	0.4771	-0.1868
P-207	0.7109	0.4921	-0.2188	0.4921	-0.2188	0.4921	-0.2188
P-208	0.3867	0.3069	-0.0798	0.3069	-0.0798	0.3069	-0.0798
P-209	0.3991	0.3136	-0.0855	0.3136	-0.0855	0.3136	-0.0855

Attachment 2.3

2030 PM_{2.5} Annual Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-210	0.4040	0.3096	-0.0944	0.3096	-0.0944	0.3096	-0.0944
P-211	0.4169	0.3142	-0.1027	0.3142	-0.1027	0.3142	-0.1027
P-212	0.4465	0.3267	-0.1198	0.3267	-0.1198	0.3267	-0.1198
P-213	0.4052	0.2932	-0.1120	0.2932	-0.1120	0.2932	-0.1120
P-214	0.3892	0.2833	-0.1059	0.2833	-0.1059	0.2833	-0.1059
P-215	0.4181	0.3018	-0.1163	0.3018	-0.1163	0.3018	-0.1163
P-216	0.4579	0.3252	-0.1327	0.3252	-0.1327	0.3252	-0.1327
P-217	0.4802	0.3393	-0.1409	0.3393	-0.1409	0.3393	-0.1409
P-218	0.4915	0.3466	-0.1449	0.3466	-0.1449	0.3466	-0.1449
P-219	0.5625	0.3882	-0.1743	0.3882	-0.1743	0.3882	-0.1743
P-220	0.5990	0.4037	-0.1953	0.4037	-0.1953	0.4037	-0.1953
P-221	0.5986	0.4072	-0.1914	0.4072	-0.1914	0.4072	-0.1914
P-222	0.7422	0.4801	-0.2621	0.4801	-0.2621	0.4801	-0.2621
P-223	0.7963	0.5021	-0.2942	0.5021	-0.2942	0.5021	-0.2942
P-224	0.7272	0.4956	-0.2316	0.4956	-0.2316	0.4956	-0.2316
P-231	0.3938	0.2939	-0.0999	0.2939	-0.0999	0.2939	-0.0999
P-232	1.3263	0.8156	-0.5107	0.8156	-0.5107	0.8156	-0.5107
P-233	1.2176	0.7208	-0.4968	0.7208	-0.4968	0.7208	-0.4968
P-234	1.2395	0.7214	-0.5181	0.7214	-0.5181	0.7214	-0.5181
P-235	1.4709	0.8446	-0.6263	0.8446	-0.6263	0.8446	-0.6263
P-236	1.2281	0.7464	-0.4817	0.7464	-0.4817	0.7464	-0.4817
P-237	1.3516	0.8293	-0.5224	0.8293	-0.5224	0.8293	-0.5224
P-238	1.2304	0.8001	-0.4303	0.8001	-0.4303	0.8001	-0.4303
P-239	1.3099	0.8551	-0.4548	0.8551	-0.4548	0.8551	-0.4548
P-240	1.1871	0.8413	-0.3458	0.8413	-0.3458	0.8413	-0.3458
P-310	0.7720	0.8817	0.1097	0.8817	0.1097	0.8817	0.1097
P-311	0.8763	0.9541	0.0778	0.9541	0.0778	0.9541	0.0778
P-312	1.0078	0.9047	-0.1031	0.9047	-0.1031	0.9047	-0.1031
P-313	1.0963	0.8186	-0.2778	0.8186	-0.2778	0.8186	-0.2778
P-314	1.1823	0.8648	-0.3175	0.8648	-0.3175	0.8648	-0.3175
P-315	1.0994	0.8735	-0.2259	0.8735	-0.2259	0.8735	-0.2259
P-316	0.7367	0.5826	-0.1541	0.5826	-0.1541	0.5826	-0.1541
P-317	0.8615	0.7187	-0.1428	0.7187	-0.1428	0.7187	-0.1428
P-323	1.6881	1.1347	-0.5534	1.1347	-0.5534	1.1347	-0.5534
P-324	1.2503	0.9505	-0.2998	0.9505	-0.2998	0.9505	-0.2998
P-325	0.9776	0.8589	-0.1187	0.8589	-0.1187	0.8589	-0.1187
P-326	0.7825	0.7096	-0.0730	0.7096	-0.0730	0.7096	-0.0730
P-327	0.7245	0.5269	-0.1976	0.5269	-0.1976	0.5269	-0.1976
P-328	0.8099	0.6307	-0.1792	0.6307	-0.1792	0.6307	-0.1792
P-329	0.8279	0.6407	-0.1872	0.6407	-0.1872	0.6407	-0.1872
P-330	0.8438	0.6502	-0.1936	0.6502	-0.1936	0.6502	-0.1936
P-331	0.4603	0.3138	-0.1466	0.3138	-0.1466	0.3138	-0.1466
P-332	0.3745	0.2837	-0.0908	0.2837	-0.0908	0.2837	-0.0908
P-333	0.4946	0.3908	-0.1038	0.3908	-0.1038	0.3908	-0.1038
P-336	0.5656	0.4721	-0.0936	0.4721	-0.0936	0.4721	-0.0936
P-337	0.5432	0.4482	-0.0951	0.4482	-0.0951	0.4482	-0.0951
P-338	0.5285	0.4273	-0.1012	0.4273	-0.1012	0.4273	-0.1012
P-339	0.5200	0.4124	-0.1076	0.4124	-0.1076	0.4124	-0.1076
P-340	0.5158	0.4006	-0.1153	0.4006	-0.1153	0.4006	-0.1153
P-346	0.4555	0.5342	0.0787	0.5342	0.0787	0.5342	0.0787
P-348	0.4247	0.4128	-0.0119	0.4128	-0.0119	0.4128	-0.0119
P-349	0.4331	0.3874	-0.0458	0.3874	-0.0458	0.3874	-0.0458
P-350	0.4580	0.3785	-0.0796	0.3785	-0.0796	0.3785	-0.0796
P-351	0.5400	0.4293	-0.1107	0.4293	-0.1107	0.4293	-0.1107
P-352	0.5026	0.4195	-0.0831	0.4195	-0.0831	0.4195	-0.0831
P-353	0.4822	0.4235	-0.0587	0.4235	-0.0587	0.4235	-0.0587
P-360	0.3310	0.3098	-0.0212	0.3098	-0.0212	0.3098	-0.0212
P-371	0.5713	0.5082	-0.0631	0.5082	-0.0631	0.5082	-0.0631
P-372	0.5653	0.4580	-0.1073	0.4580	-0.1073	0.4580	-0.1073
P-373	0.4802	0.4015	-0.0787	0.4015	-0.0787	0.4015	-0.0787
P-374	0.4470	0.3827	-0.0643	0.3827	-0.0643	0.3827	-0.0643
P-375	0.4221	0.3632	-0.0590	0.3632	-0.0590	0.3632	-0.0590
P-376	0.5289	0.4789	-0.0500	0.4789	-0.0500	0.4789	-0.0500
P-377	0.4514	0.4064	-0.0450	0.4064	-0.0450	0.4064	-0.0450

Attachment 2.4
2050 PM_{2.5} Annual Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-001	0.0087	0.0069	-0.0017	0.0069	-0.0017	0.0069	-0.0017
P-002	0.0373	0.0268	-0.0105	0.0268	-0.0105	0.0268	-0.0105
P-003	0.0822	0.0694	-0.0128	0.0694	-0.0128	0.0694	-0.0128
P-004	0.0897	0.0695	-0.0202	0.0695	-0.0202	0.0695	-0.0202
P-005	0.1501	0.1207	-0.0293	0.1207	-0.0293	0.1207	-0.0293
P-006	0.1527	0.1339	-0.0188	0.1339	-0.0188	0.1339	-0.0188
P-007	0.1556	0.1392	-0.0164	0.1392	-0.0164	0.1392	-0.0164
P-008	0.1511	0.1384	-0.0128	0.1384	-0.0128	0.1384	-0.0128
P-009	0.1623	0.1410	-0.0213	0.1410	-0.0213	0.1410	-0.0213
P-010	0.1871	0.1724	-0.0148	0.1724	-0.0148	0.1724	-0.0148
P-011	0.2036	0.1875	-0.0161	0.1875	-0.0161	0.1875	-0.0161
P-012	0.2195	0.1936	-0.0260	0.1936	-0.0260	0.1936	-0.0260
P-013	0.2353	0.1942	-0.0411	0.1942	-0.0411	0.1942	-0.0411
P-014	0.1964	0.1615	-0.0349	0.1615	-0.0349	0.1615	-0.0349
P-015	0.2626	0.1963	-0.0663	0.1963	-0.0663	0.1963	-0.0663
P-018	0.4582	0.3313	-0.1270	0.3313	-0.1270	0.3313	-0.1270
P-019	0.4298	0.3612	-0.0686	0.3612	-0.0686	0.3612	-0.0686
P-030	0.5789	0.3962	-0.1827	0.3962	-0.1827	0.3962	-0.1827
P-049	0.1474	0.1080	-0.0394	0.1080	-0.0394	0.1080	-0.0394
P-050	0.1517	0.1097	-0.0420	0.1097	-0.0420	0.1097	-0.0420
P-051	0.1620	0.1176	-0.0444	0.1176	-0.0444	0.1176	-0.0444
P-052	0.1666	0.1235	-0.0431	0.1235	-0.0431	0.1235	-0.0431
P-053	0.1742	0.1318	-0.0424	0.1318	-0.0424	0.1318	-0.0424
P-054	0.1787	0.1369	-0.0418	0.1369	-0.0418	0.1369	-0.0418
P-055	0.1837	0.1434	-0.0403	0.1434	-0.0403	0.1434	-0.0403
P-056	0.2112	0.1716	-0.0396	0.1716	-0.0396	0.1716	-0.0396
P-057	0.2503	0.1985	-0.0518	0.1985	-0.0518	0.1985	-0.0518
P-058	0.0881	0.0697	-0.0184	0.0697	-0.0184	0.0697	-0.0184
P-059	0.0896	0.0702	-0.0193	0.0702	-0.0193	0.0702	-0.0193
P-060	0.1081	0.0821	-0.0260	0.0821	-0.0260	0.0821	-0.0260
P-061	0.1320	0.1049	-0.0271	0.1049	-0.0271	0.1049	-0.0271
P-062	0.1193	0.0952	-0.0242	0.0952	-0.0242	0.0952	-0.0242
P-063	0.1193	0.0971	-0.0222	0.0971	-0.0222	0.0971	-0.0222
P-064	0.1403	0.1178	-0.0225	0.1178	-0.0225	0.1178	-0.0225
P-065	0.2400	0.2548	0.0148	0.2548	0.0148	0.2548	0.0148
P-066	0.1664	0.1354	-0.0310	0.1354	-0.0310	0.1354	-0.0310
P-067	0.2069	0.1647	-0.0423	0.1647	-0.0423	0.1647	-0.0423
P-068	0.2523	0.1940	-0.0583	0.1940	-0.0583	0.1940	-0.0583
P-069	0.3254	0.2409	-0.0845	0.2409	-0.0845	0.2409	-0.0845
P-070	0.3167	0.2371	-0.0796	0.2371	-0.0796	0.2371	-0.0796
P-071	0.3113	0.2384	-0.0730	0.2384	-0.0730	0.2384	-0.0730
P-072	0.3113	0.2474	-0.0638	0.2474	-0.0638	0.2474	-0.0638
P-073	0.3248	0.2709	-0.0539	0.2709	-0.0539	0.2709	-0.0539
P-074	0.3423	0.2843	-0.0579	0.2843	-0.0579	0.2843	-0.0579
P-075	0.4657	0.3903	-0.0754	0.3903	-0.0754	0.3903	-0.0754
P-076	0.4143	0.3337	-0.0806	0.3337	-0.0806	0.3337	-0.0806
P-077	0.4124	0.3145	-0.0979	0.3145	-0.0979	0.3145	-0.0979
P-078	0.4193	0.3167	-0.1027	0.3167	-0.1027	0.3167	-0.1027
P-079	0.4222	0.3243	-0.0979	0.3243	-0.0979	0.3243	-0.0979
P-080	0.4488	0.3160	-0.1328	0.3160	-0.1328	0.3160	-0.1328
P-081	0.4635	0.3255	-0.1379	0.3255	-0.1379	0.3255	-0.1379
P-082	0.5113	0.3734	-0.1379	0.3734	-0.1379	0.3734	-0.1379
P-083	0.4976	0.3970	-0.1006	0.3970	-0.1006	0.3970	-0.1006
P-084	0.5470	0.4316	-0.1154	0.4316	-0.1154	0.4316	-0.1154
P-085	0.6856	0.5639	-0.1218	0.5639	-0.1218	0.5639	-0.1218
P-098	0.8885	0.6562	-0.2323	0.6562	-0.2323	0.6562	-0.2323
P-099	0.8069	0.6090	-0.1979	0.6090	-0.1979	0.6090	-0.1979
P-100	0.6839	0.5314	-0.1524	0.5314	-0.1524	0.5314	-0.1524
P-101	0.6041	0.4768	-0.1273	0.4768	-0.1273	0.4768	-0.1273
P-102	0.5467	0.4106	-0.1361	0.4106	-0.1361	0.4106	-0.1361
P-106	0.5404	0.4223	-0.1181	0.4223	-0.1181	0.4223	-0.1181
P-107	0.4846	0.3785	-0.1061	0.3785	-0.1061	0.3785	-0.1061
P-109	0.4013	0.3140	-0.0873	0.3140	-0.0873	0.3140	-0.0873
P-110	0.2508	0.1951	-0.0558	0.1951	-0.0558	0.1951	-0.0558
P-111	0.2110	0.1586	-0.0524	0.1586	-0.0524	0.1586	-0.0524
P-112	0.2691	0.1960	-0.0731	0.1960	-0.0731	0.1960	-0.0731
P-113	0.2236	0.1594	-0.0642	0.1594	-0.0642	0.1594	-0.0642
P-114	0.2397	0.1712	-0.0685	0.1712	-0.0685	0.1712	-0.0685
P-115	0.3536	0.2545	-0.0991	0.2545	-0.0991	0.2545	-0.0991
P-116	0.4249	0.2964	-0.1285	0.2964	-0.1285	0.2964	-0.1285
P-117	0.4842	0.3302	-0.1540	0.3302	-0.1540	0.3302	-0.1540
P-118	0.4444	0.2995	-0.1449	0.2995	-0.1449	0.2995	-0.1449
P-119	0.3883	0.2813	-0.1070	0.2813	-0.1070	0.2813	-0.1070
P-120	0.7749	0.4820	-0.2929	0.4820	-0.2929	0.4820	-0.2929

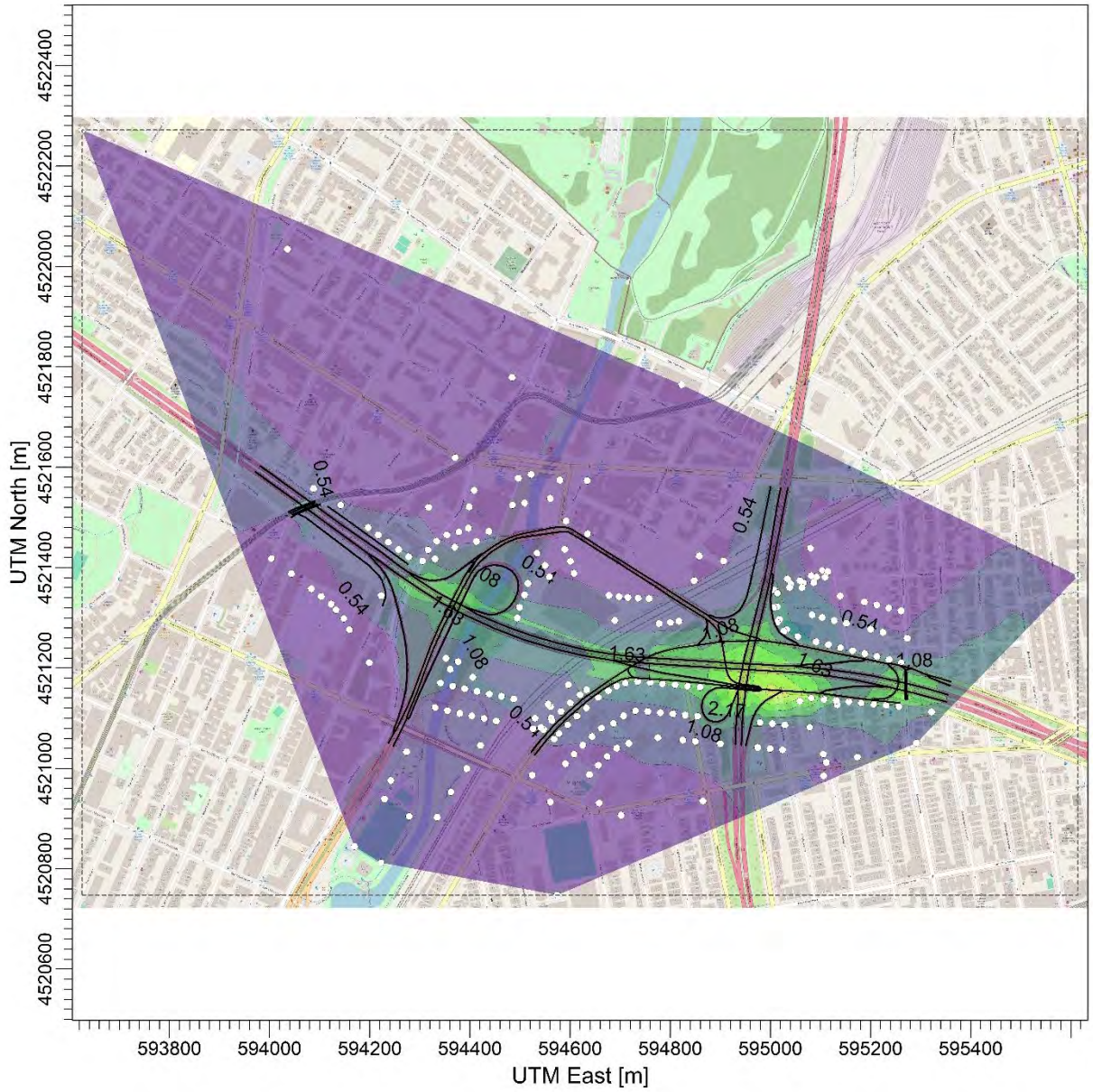
Attachment 2.4
2050 PM_{2.5} Annual Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-121	0.8760	0.5183	-0.3576	0.5183	-0.3576	0.5183	-0.3576
P-122	0.9109	0.5463	-0.3646	0.5463	-0.3646	0.5463	-0.3646
P-123	0.9393	0.5911	-0.3482	0.5911	-0.3482	0.5911	-0.3482
P-124	0.5207	0.3620	-0.1587	0.3620	-0.1587	0.3620	-0.1587
P-125	0.5337	0.3745	-0.1592	0.3745	-0.1592	0.3745	-0.1592
P-126	0.5725	0.3983	-0.1742	0.3983	-0.1742	0.3983	-0.1742
P-127	0.5925	0.4096	-0.1829	0.4096	-0.1829	0.4096	-0.1829
P-128	0.5858	0.3853	-0.2005	0.3853	-0.2005	0.3853	-0.2005
P-129	0.5730	0.3772	-0.1958	0.3772	-0.1958	0.3772	-0.1958
P-130	0.5298	0.3553	-0.1745	0.3553	-0.1745	0.3553	-0.1745
P-131	0.4532	0.3175	-0.1356	0.3175	-0.1356	0.3175	-0.1356
P-132	0.4167	0.2983	-0.1183	0.2983	-0.1183	0.2983	-0.1183
P-133	0.3735	0.2707	-0.1028	0.2707	-0.1028	0.2707	-0.1028
P-134	0.3351	0.2442	-0.0909	0.2442	-0.0909	0.2442	-0.0909
P-135	0.3009	0.2204	-0.0805	0.2204	-0.0805	0.2204	-0.0805
P-136	0.3157	0.2427	-0.0729	0.2427	-0.0729	0.2427	-0.0729
P-137	0.3537	0.2719	-0.0817	0.2719	-0.0817	0.2719	-0.0817
P-138	0.3975	0.3036	-0.0939	0.3036	-0.0939	0.3036	-0.0939
P-139	0.4473	0.3408	-0.1065	0.3408	-0.1065	0.3408	-0.1065
P-140	0.5050	0.3803	-0.1247	0.3803	-0.1247	0.3803	-0.1247
P-141	0.5511	0.4071	-0.1441	0.4071	-0.1441	0.4071	-0.1441
P-142	0.6271	0.4623	-0.1648	0.4623	-0.1648	0.4623	-0.1648
P-143	0.6869	0.4978	-0.1891	0.4978	-0.1891	0.4978	-0.1891
P-144	0.7047	0.5012	-0.2035	0.5012	-0.2035	0.5012	-0.2035
P-145	0.7227	0.4992	-0.2235	0.4992	-0.2235	0.4992	-0.2235
P-146	0.7653	0.5170	-0.2482	0.5170	-0.2482	0.5170	-0.2482
P-147	0.8249	0.5402	-0.2847	0.5402	-0.2847	0.5402	-0.2847
P-148	0.9247	0.5839	-0.3408	0.5839	-0.3408	0.5839	-0.3408
P-150	0.8748	0.6281	-0.2467	0.6281	-0.2467	0.6281	-0.2467
P-154	1.1911	0.8130	-0.3781	0.8130	-0.3781	0.8130	-0.3781
P-155	1.2961	0.9293	-0.3668	0.9293	-0.3668	0.9293	-0.3668
P-156	1.2917	0.9209	-0.3709	0.9209	-0.3709	0.9209	-0.3709
P-157	1.1872	0.9209	-0.2663	0.9209	-0.2663	0.9209	-0.2663
P-158	1.1840	0.9081	-0.2759	0.9081	-0.2759	0.9081	-0.2759
P-159	1.1743	0.7906	-0.3837	0.7906	-0.3837	0.7906	-0.3837
P-160	1.2655	0.9152	-0.3503	0.9152	-0.3503	0.9152	-0.3503
P-161	1.6208	0.9671	-0.6537	0.9671	-0.6537	0.9671	-0.6537
P-162	2.3460	1.0689	-1.2771	1.0689	-1.2771	1.0689	-1.2771
P-163	2.2082	0.9437	-1.2645	0.9437	-1.2645	0.9437	-1.2645
P-174	1.5783	0.9991	-0.5792	0.9991	-0.5792	0.9991	-0.5792
P-175	1.4248	0.9939	-0.4308	0.9939	-0.4308	0.9939	-0.4308
P-176	1.3704	1.0324	-0.3380	1.0324	-0.3380	1.0324	-0.3380
P-177	1.3330	1.0430	-0.2900	1.0430	-0.2900	1.0430	-0.2900
P-178	1.3250	1.0309	-0.2941	1.0309	-0.2941	1.0309	-0.2941
P-179	1.3040	1.0063	-0.2978	1.0063	-0.2978	1.0063	-0.2978
P-180	1.2256	0.9199	-0.3057	0.9199	-0.3057	0.9199	-0.3057
P-181	1.1286	0.8358	-0.2928	0.8358	-0.2928	0.8358	-0.2928
P-182	0.9847	0.7384	-0.2463	0.7384	-0.2463	0.7384	-0.2463
P-183	0.8402	0.6397	-0.2005	0.6397	-0.2005	0.6397	-0.2005
P-184	0.6857	0.5304	-0.1554	0.5304	-0.1554	0.5304	-0.1554
P-185	0.6030	0.4722	-0.1308	0.4722	-0.1308	0.4722	-0.1308
P-186	0.5309	0.4190	-0.1119	0.4190	-0.1119	0.4190	-0.1119
P-187	0.4729	0.3753	-0.0976	0.3753	-0.0976	0.3753	-0.0976
P-188	0.4431	0.3531	-0.0900	0.3531	-0.0900	0.3531	-0.0900
P-189	0.0546	0.0423	-0.0122	0.0423	-0.0122	0.0423	-0.0122
P-193	0.9199	0.6342	-0.2857	0.6342	-0.2857	0.6342	-0.2857
P-194	0.9625	0.7484	-0.2141	0.7484	-0.2141	0.7484	-0.2141
P-195	0.8940	0.7836	-0.1104	0.7836	-0.1104	0.7836	-0.1104
P-196	0.8283	0.7459	-0.0823	0.7459	-0.0823	0.7459	-0.0823
P-197	0.7907	0.6699	-0.1208	0.6699	-0.1208	0.6699	-0.1208
P-198	0.7747	0.6128	-0.1619	0.6128	-0.1619	0.6128	-0.1619
P-199	0.7874	0.5955	-0.1919	0.5955	-0.1919	0.5955	-0.1919
P-200	0.8212	0.6153	-0.2059	0.6153	-0.2059	0.6153	-0.2059
P-201	0.4308	0.3277	-0.1032	0.3277	-0.1032	0.3277	-0.1032
P-202	0.4441	0.3397	-0.1044	0.3397	-0.1044	0.3397	-0.1044
P-203	0.4603	0.3493	-0.1110	0.3493	-0.1110	0.3493	-0.1110
P-204	0.4622	0.3310	-0.1312	0.3310	-0.1312	0.3310	-0.1312
P-205	0.4860	0.3348	-0.1512	0.3348	-0.1512	0.3348	-0.1512
P-206	0.5257	0.3436	-0.1821	0.3436	-0.1821	0.3436	-0.1821
P-207	0.5781	0.3577	-0.2204	0.3577	-0.2204	0.3577	-0.2204
P-208	0.2926	0.2250	-0.0676	0.2250	-0.0676	0.2250	-0.0676
P-209	0.3040	0.2297	-0.0743	0.2297	-0.0743	0.2297	-0.0743
P-210	0.3095	0.2264	-0.0831	0.2264	-0.0831	0.2264	-0.0831
P-211	0.3195	0.2289	-0.0905	0.2289	-0.0905	0.2289	-0.0905

Attachment 2.4
2050 PM_{2.5} Annual Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-212	0.3452	0.2377	-0.1075	0.2377	-0.1075	0.2377	-0.1075
P-213	0.3217	0.2181	-0.1036	0.2181	-0.1036	0.2181	-0.1036
P-214	0.3067	0.2098	-0.0969	0.2098	-0.0969	0.2098	-0.0969
P-215	0.3309	0.2232	-0.1077	0.2232	-0.1077	0.2232	-0.1077
P-216	0.3681	0.2421	-0.1260	0.2421	-0.1260	0.2421	-0.1260
P-217	0.3899	0.2541	-0.1358	0.2541	-0.1358	0.2541	-0.1358
P-218	0.3975	0.2578	-0.1397	0.2578	-0.1397	0.2578	-0.1397
P-219	0.4658	0.2917	-0.1741	0.2917	-0.1741	0.2917	-0.1741
P-220	0.5026	0.3052	-0.1974	0.3052	-0.1974	0.3052	-0.1974
P-221	0.4985	0.3053	-0.1933	0.3053	-0.1933	0.3053	-0.1933
P-222	0.6434	0.3664	-0.2769	0.3664	-0.2769	0.3664	-0.2769
P-223	0.6962	0.3824	-0.3138	0.3824	-0.3138	0.3824	-0.3138
P-224	0.6277	0.3814	-0.2463	0.3814	-0.2463	0.3814	-0.2463
P-231	0.3141	0.2240	-0.0901	0.2240	-0.0901	0.2240	-0.0901
P-232	1.2117	0.6439	-0.5678	0.6439	-0.5678	0.6439	-0.5678
P-233	1.1127	0.5674	-0.5453	0.5674	-0.5453	0.5674	-0.5453
P-234	1.1116	0.5639	-0.5477	0.5639	-0.5477	0.5639	-0.5477
P-235	1.3468	0.6644	-0.6824	0.6644	-0.6824	0.6644	-0.6824
P-236	1.0648	0.5684	-0.4964	0.5684	-0.4964	0.5684	-0.4964
P-237	1.1678	0.6294	-0.5384	0.6294	-0.5384	0.6294	-0.5384
P-238	1.0221	0.5946	-0.4276	0.5946	-0.4276	0.5946	-0.4276
P-239	1.0835	0.6342	-0.4493	0.6342	-0.4493	0.6342	-0.4493
P-240	0.9532	0.6083	-0.3449	0.6083	-0.3449	0.6083	-0.3449
P-310	0.5628	0.5143	-0.0485	0.5143	-0.0485	0.5143	-0.0485
P-311	0.6210	0.5415	-0.0795	0.5415	-0.0795	0.5415	-0.0795
P-312	0.6896	0.5061	-0.1835	0.5061	-0.1835	0.5061	-0.1835
P-313	0.7535	0.4649	-0.2886	0.4649	-0.2886	0.4649	-0.2886
P-314	0.8386	0.5200	-0.3186	0.5200	-0.3186	0.5200	-0.3186
P-315	0.8212	0.6094	-0.2119	0.6094	-0.2119	0.6094	-0.2119
P-316	0.5417	0.4046	-0.1371	0.4046	-0.1371	0.4046	-0.1371
P-317	0.6388	0.5158	-0.1231	0.5158	-0.1231	0.5158	-0.1231
P-323	1.3052	0.8717	-0.4336	0.8717	-0.4336	0.8717	-0.4336
P-324	0.9632	0.7289	-0.2343	0.7289	-0.2343	0.7289	-0.2343
P-325	0.7542	0.6600	-0.0941	0.6600	-0.0941	0.6600	-0.0941
P-326	0.6024	0.5468	-0.0556	0.5468	-0.0556	0.5468	-0.0556
P-327	0.5442	0.4170	-0.1272	0.4170	-0.1272	0.4170	-0.1272
P-328	0.6089	0.5212	-0.0878	0.5212	-0.0878	0.5212	-0.0878
P-329	0.6238	0.5295	-0.0943	0.5295	-0.0943	0.5295	-0.0943
P-330	0.6372	0.5354	-0.1017	0.5354	-0.1017	0.5354	-0.1017
P-331	0.3713	0.2448	-0.1265	0.2448	-0.1265	0.2448	-0.1265
P-332	0.2824	0.2225	-0.0600	0.2225	-0.0600	0.2225	-0.0600
P-333	0.3668	0.3100	-0.0567	0.3100	-0.0567	0.3100	-0.0567
P-336	0.4195	0.3847	-0.0348	0.3847	-0.0348	0.3847	-0.0348
P-337	0.4040	0.3641	-0.0400	0.3641	-0.0400	0.3641	-0.0400
P-338	0.3937	0.3447	-0.0490	0.3447	-0.0490	0.3447	-0.0490
P-339	0.3876	0.3303	-0.0573	0.3303	-0.0573	0.3303	-0.0573
P-340	0.3846	0.3183	-0.0664	0.3183	-0.0664	0.3183	-0.0664
P-346	0.3548	0.4639	0.1092	0.4639	0.1092	0.4639	0.1092
P-348	0.3232	0.3389	0.0157	0.3389	0.0157	0.3389	0.0157
P-349	0.3275	0.3134	-0.0140	0.3134	-0.0140	0.3134	-0.0140
P-350	0.3438	0.3008	-0.0429	0.3008	-0.0429	0.3008	-0.0429
P-351	0.4074	0.3338	-0.0736	0.3338	-0.0736	0.3338	-0.0736
P-352	0.3803	0.3277	-0.0526	0.3277	-0.0526	0.3277	-0.0526
P-353	0.3654	0.3308	-0.0347	0.3308	-0.0347	0.3308	-0.0347
P-360	0.2468	0.2483	0.0014	0.2483	0.0014	0.2483	0.0014
P-371	0.4180	0.3659	-0.0521	0.3659	-0.0521	0.3659	-0.0521
P-372	0.4121	0.3187	-0.0934	0.3187	-0.0934	0.3187	-0.0934
P-373	0.3491	0.2824	-0.0667	0.2824	-0.0667	0.2824	-0.0667
P-374	0.3261	0.2740	-0.0521	0.2740	-0.0521	0.2740	-0.0521
P-375	0.3092	0.2631	-0.0461	0.2631	-0.0461	0.2631	-0.0461
P-376	0.3934	0.3524	-0.0410	0.3524	-0.0410	0.3524	-0.0410
P-377	0.3372	0.3013	-0.0359	0.3013	-0.0359	0.3013	-0.0359

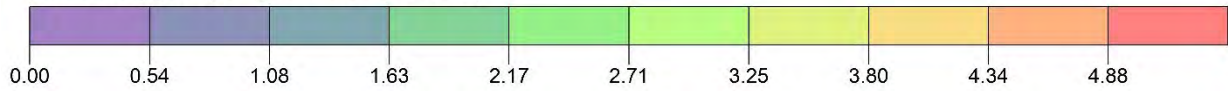
Attachment 2.5: 2030 No Build Alternative PM_{2.5} Annual Average Concentrations



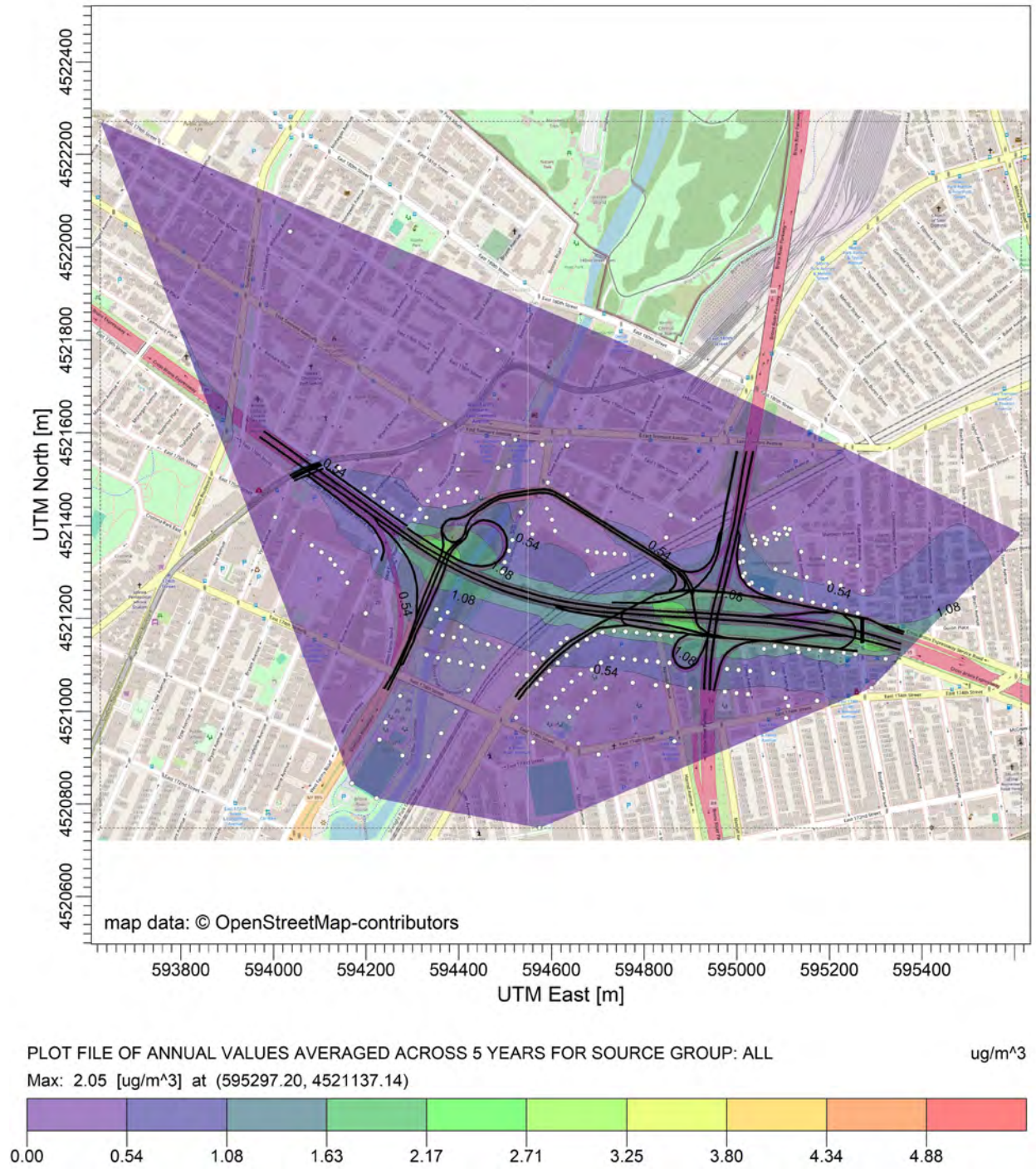
PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP: ALL

ug/m³

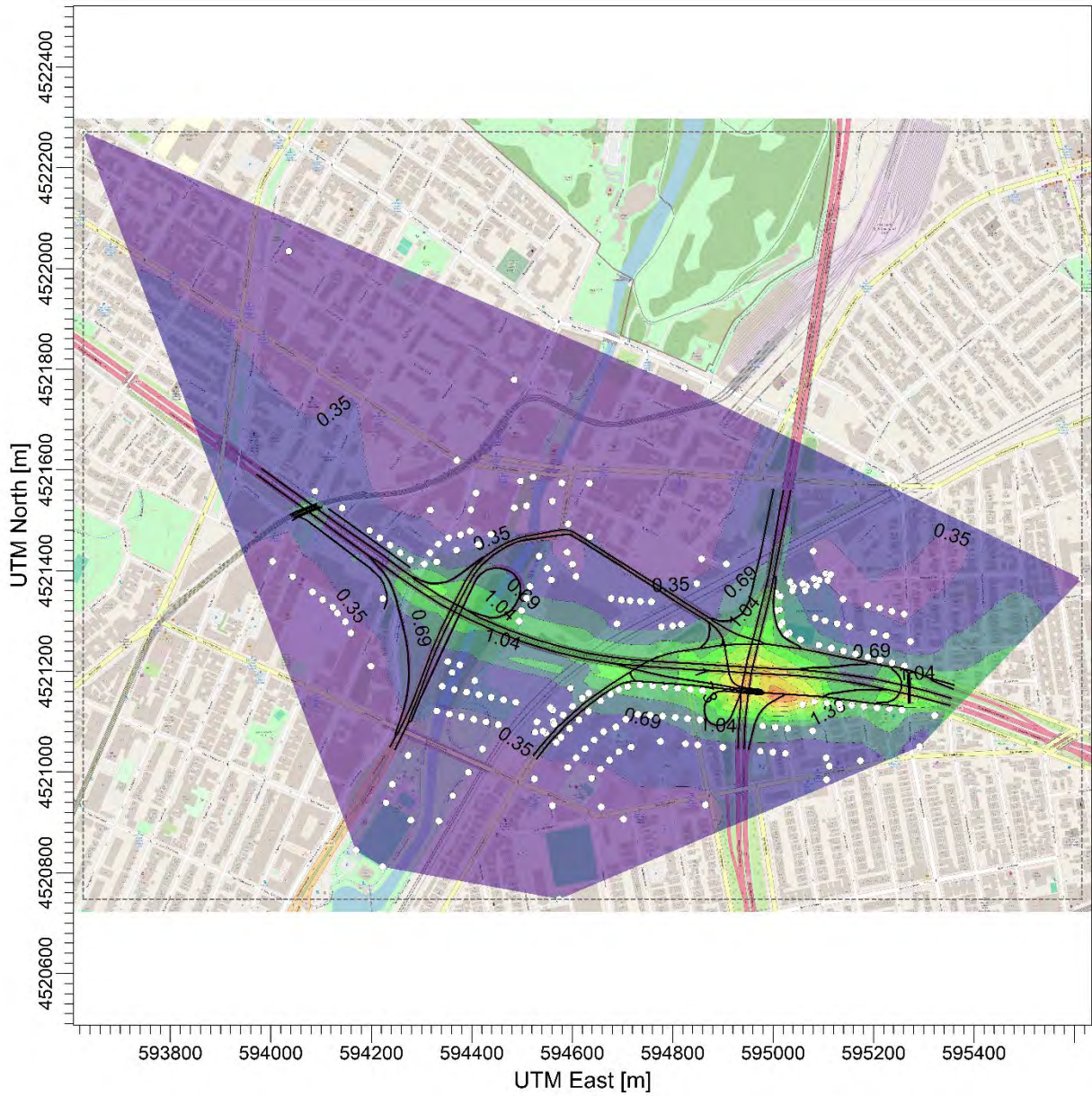
Max: 3.57 [ug/m³] at (595008.32, 4521147.47)



Attachment 2.6: 2030 Alternatives A, B, and C PM_{2.5} Annual Average Concentrations



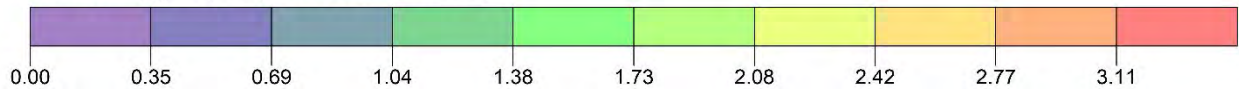
Attachment 2.7: 2050 No Build Alternative PM_{2.5} Annual Average Concentrations



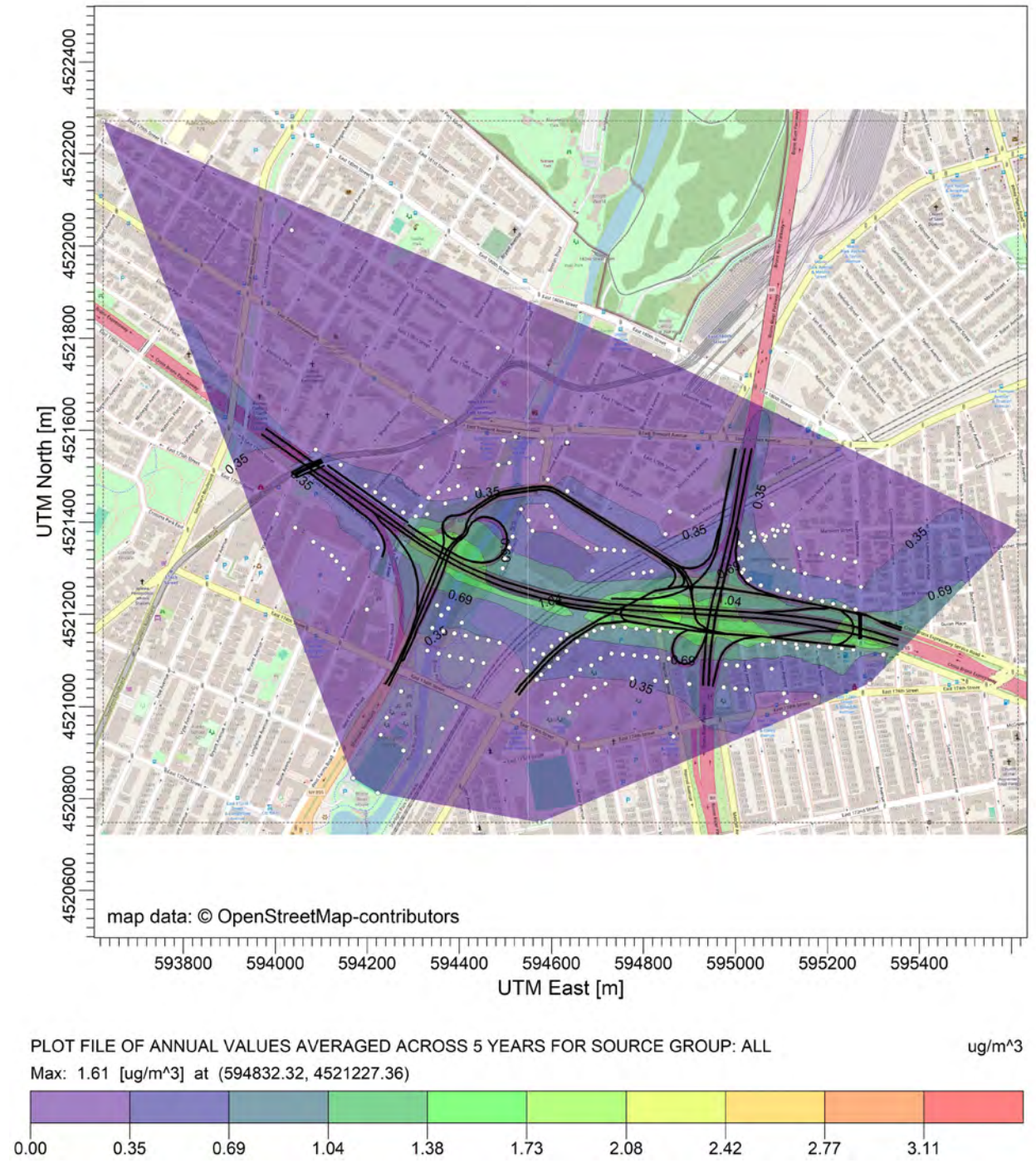
PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS 5 YEARS FOR SOURCE GROUP: ALL

ug/m³

Max: 3.11 [ug/m³] at (595008.32, 4521147.47)



Attachment 2.8: 2050 Alternatives A, B, and C PM_{2.5} Annual Average Concentrations

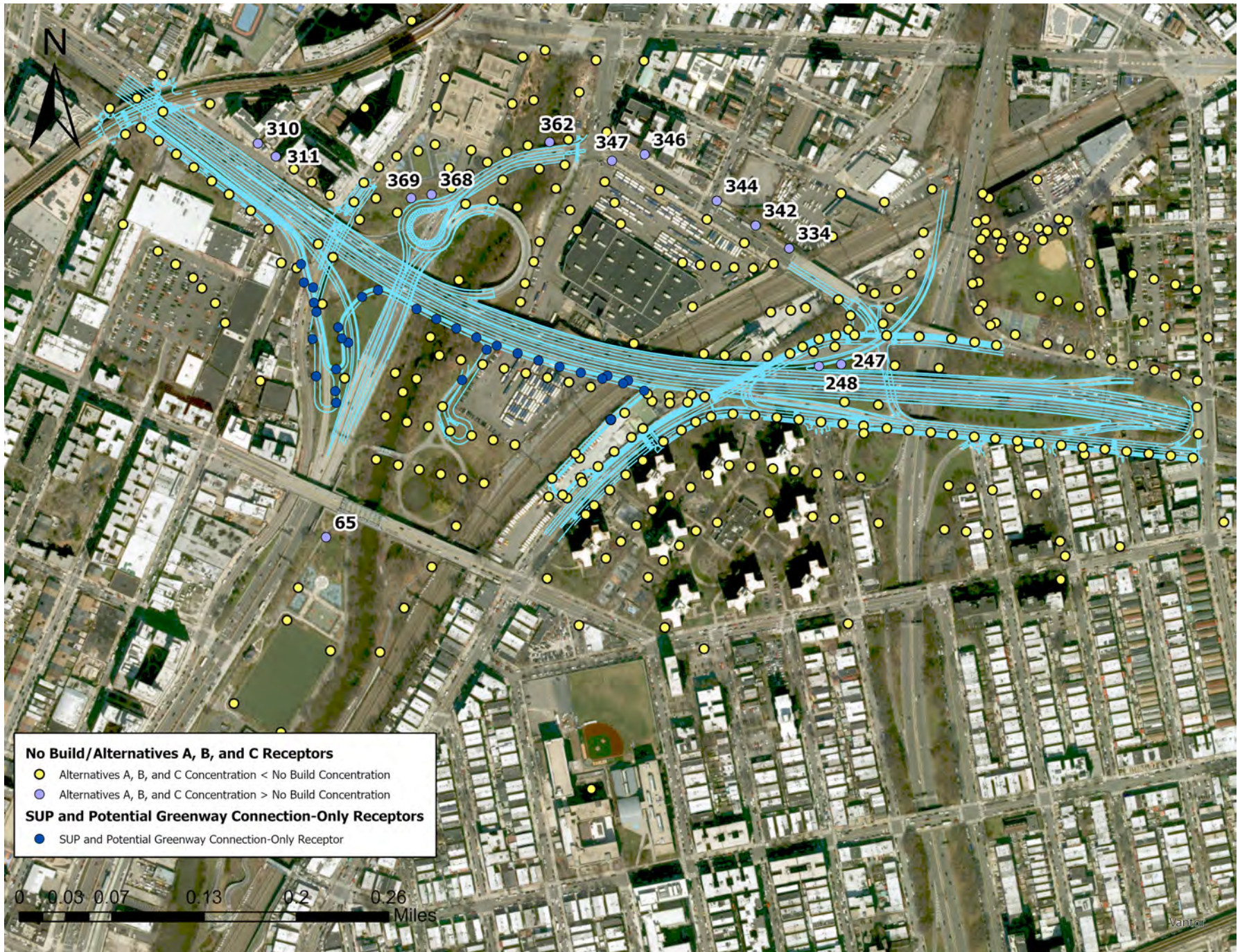


Air Quality Appendix Attachment 3
PM_{2.5} 24-Hour Average Concentrations Microscale Results

Attachment 3.1

2030 PM-2.5 24 Hour Average Concentrations

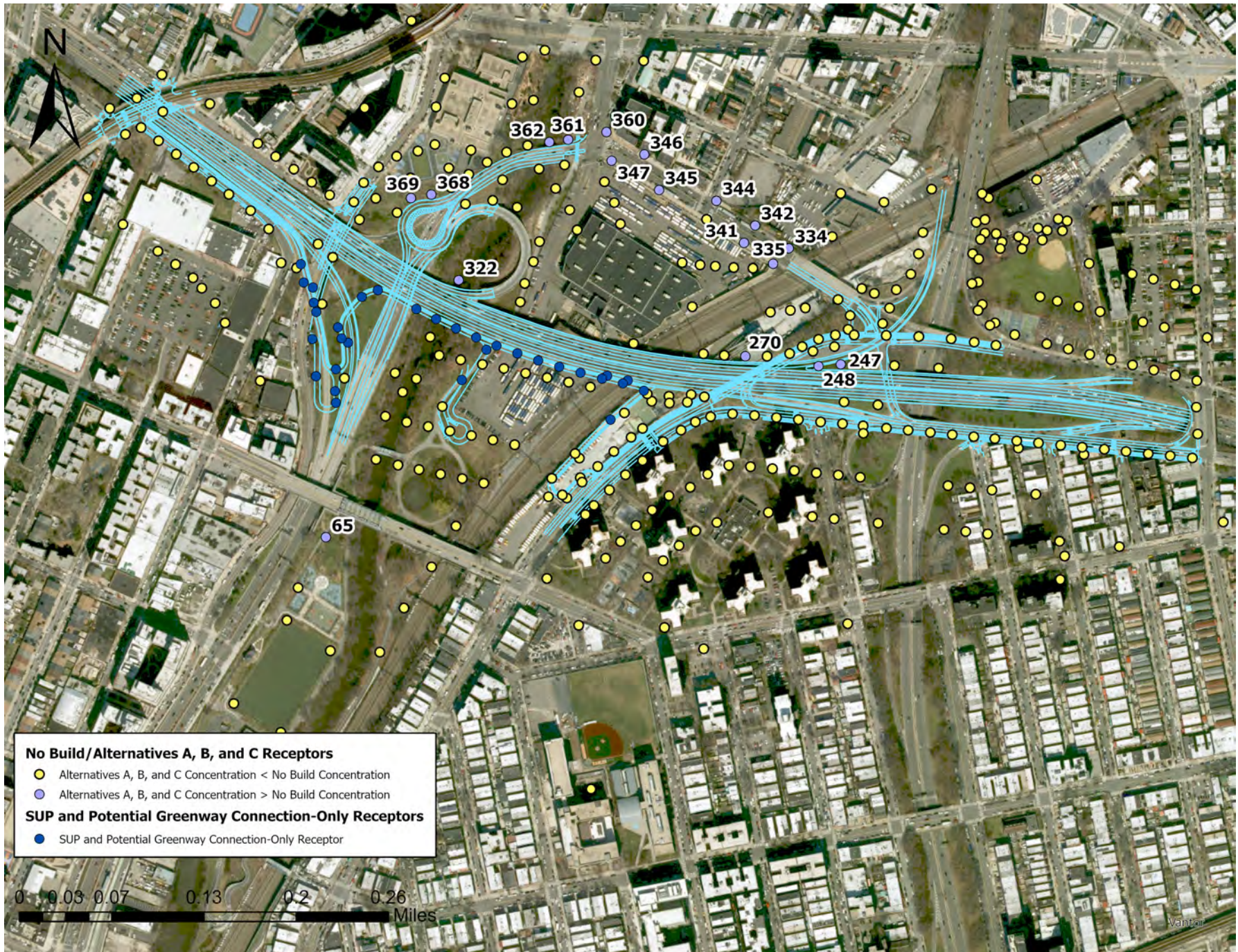
Alternatives A, B, and C versus No Build Alternative



Note: SUP and Potential Greenway Connection-Only receptors are located along the SUP and Potential Greenway Connection, with no corresponding No Build Alternative receptor.

Attachment 3.2

2050 PM-2.5 24 Hour Average Concentrations Alternatives A, B, and C versus No Build Alternative



Note: SUP and Potential Greenway Connection-Only receptors are located along the SUP and Potential Greenway Connection, with no corresponding No Build Alternative receptor.

Attachment 3.3
2030 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-001	0.1071	0.0838	-0.0233	0.0838	-0.0233	0.0838	-0.0233
P-002	0.2351	0.1835	-0.0516	0.1835	-0.0516	0.1835	-0.0516
P-003	0.4310	0.3533	-0.0777	0.3533	-0.0777	0.3533	-0.0777
P-004	0.4600	0.3540	-0.1060	0.3540	-0.1060	0.3540	-0.1060
P-005	0.6715	0.5473	-0.1242	0.5473	-0.1242	0.5473	-0.1242
P-006	0.7229	0.6245	-0.0985	0.6245	-0.0985	0.6245	-0.0985
P-007	0.7355	0.6359	-0.0996	0.6359	-0.0996	0.6359	-0.0996
P-008	0.7116	0.6097	-0.1019	0.6097	-0.1019	0.6097	-0.1019
P-009	0.7472	0.6534	-0.0938	0.6534	-0.0938	0.6534	-0.0938
P-010	0.8681	0.7626	-0.1055	0.7626	-0.1055	0.7626	-0.1055
P-011	0.9338	0.8409	-0.0929	0.8409	-0.0929	0.8409	-0.0929
P-012	0.9892	0.8780	-0.1112	0.8780	-0.1112	0.8780	-0.1112
P-013	0.9911	0.8401	-0.1511	0.8401	-0.1511	0.8401	-0.1511
P-014	0.8526	0.7169	-0.1357	0.7169	-0.1357	0.7169	-0.1357
P-015	1.0179	0.8158	-0.2021	0.8158	-0.2021	0.8158	-0.2021
P-016	1.5406	1.1762	-0.3644	1.1762	-0.3644	1.1762	-0.3644
P-017	2.8264	1.8992	-0.9272	1.8992	-0.9272	1.8992	-0.9272
P-018	1.4476	1.2469	-0.2007	1.2469	-0.2007	1.2469	-0.2007
P-019	1.3633	1.3485	-0.0148	1.3485	-0.0148	1.3485	-0.0148
P-020	2.6322	2.0305	-0.6017	2.0305	-0.6017	2.0305	-0.6017
P-021	1.3111	1.0087	-0.3024	1.0087	-0.3024	1.0087	-0.3024
P-022	1.7294	1.2828	-0.4467	1.2828	-0.4467	1.2828	-0.4467
P-023	1.6796	1.2895	-0.3901	1.2895	-0.3901	1.2895	-0.3901
P-024	1.6708	1.3548	-0.3160	1.3548	-0.3160	1.3548	-0.3160
P-025	1.6839	1.4355	-0.2484	1.4355	-0.2484	1.4355	-0.2484
P-026	1.8998	1.5807	-0.3191	1.5807	-0.3191	1.5807	-0.3191
P-027	2.2214	1.9006	-0.3208	1.9006	-0.3208	1.9006	-0.3208
P-028	2.0400	1.8931	-0.1469	1.8931	-0.1469	1.8931	-0.1469
P-029	2.1517	1.9515	-0.2002	1.9515	-0.2002	1.9515	-0.2002
P-030	2.1930	1.7116	-0.4814	1.7116	-0.4814	1.7116	-0.4814
P-031	---	2.2425	---	2.2425	---	---	---
P-032	2.4561	2.0597	-0.3965	2.0597	-0.3965	2.0597	-0.3965
P-033	---	2.1371	---	2.1371	---	---	---
P-034	---	2.2774	---	2.2774	---	---	---
P-035	2.8607	2.3605	-0.5002	2.3605	-0.5002	2.3605	-0.5002
P-036	---	1.9665	---	1.9665	---	---	---
P-037	2.0739	1.9808	-0.0931	1.9808	-0.0931	1.9808	-0.0931
P-038	---	1.7990	---	1.7990	---	---	---
P-039	---	1.7125	---	1.7125	---	---	---
P-041	---	1.7521	---	1.7521	---	---	---
P-042	---	1.6807	---	1.6807	---	---	---
P-043	---	1.3357	---	1.3357	---	---	---
P-044	---	1.5127	---	1.5127	---	---	---
P-045	2.0285	1.7138	-0.3147	1.7138	-0.3147	1.7138	-0.3147
P-046	---	1.4583	---	1.4583	---	---	---
P-047	---	1.3098	---	1.3098	---	---	---
P-048	---	1.4687	---	1.4687	---	---	---
P-049	0.6686	0.5550	-0.1136	0.5550	-0.1136	0.5550	-0.1136
P-050	0.6593	0.5618	-0.0976	0.5618	-0.0976	0.5618	-0.0976
P-051	0.7121	0.6048	-0.1073	0.6048	-0.1073	0.6048	-0.1073
P-052	0.7342	0.6427	-0.0915	0.6427	-0.0915	0.6427	-0.0915
P-053	0.7862	0.6827	-0.1035	0.6827	-0.1035	0.6827	-0.1035
P-054	0.8090	0.7175	-0.0915	0.7175	-0.0915	0.7175	-0.0915
P-055	0.8387	0.7391	-0.0996	0.7391	-0.0996	0.7391	-0.0996
P-056	0.9700	0.8480	-0.1220	0.8480	-0.1220	0.8480	-0.1220
P-057	1.1725	0.9755	-0.1970	0.9755	-0.1970	0.9755	-0.1970
P-058	0.5234	0.3965	-0.1269	0.3965	-0.1269	0.3965	-0.1269
P-059	0.5391	0.4018	-0.1373	0.4018	-0.1373	0.4018	-0.1373
P-060	0.5544	0.4092	-0.1452	0.4092	-0.1452	0.4092	-0.1452
P-061	0.6865	0.5250	-0.1615	0.5250	-0.1615	0.5250	-0.1615
P-062	0.6526	0.5091	-0.1435	0.5091	-0.1435	0.5091	-0.1435
P-063	0.6840	0.5431	-0.1409	0.5431	-0.1409	0.5431	-0.1409
P-064	0.7958	0.6703	-0.1256	0.6703	-0.1256	0.6703	-0.1256
P-065	1.0617	1.0768	0.0151	1.0768	0.0151	1.0768	0.0151
P-066	0.7924	0.5878	-0.2046	0.5878	-0.2046	0.5878	-0.2046
P-067	0.9145	0.6524	-0.2621	0.6524	-0.2621	0.6524	-0.2621
P-068	1.0391	0.7376	-0.3015	0.7376	-0.3015	0.7376	-0.3015
P-069	1.2735	0.8891	-0.3844	0.8891	-0.3844	0.8891	-0.3844
P-070	1.2314	0.8778	-0.3536	0.8778	-0.3536	0.8778	-0.3536
P-071	1.1943	0.8735	-0.3208	0.8735	-0.3208	0.8735	-0.3208
P-072	1.1666	0.8822	-0.2844	0.8822	-0.2844	0.8822	-0.2844
P-073	1.1730	0.9214	-0.2516	0.9214	-0.2516	0.9214	-0.2516
P-074	1.1545	0.9448	-0.2098	0.9448	-0.2098	0.9448	-0.2098
P-075	1.4729	1.2349	-0.2380	1.2349	-0.2380	1.2349	-0.2380

Attachment 3.3
2030 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-076	1.4213	1.1168	-0.3045	1.1168	-0.3045	1.1168	-0.3045
P-077	1.4810	1.1086	-0.3724	1.1086	-0.3724	1.1086	-0.3724
P-078	1.5782	1.1950	-0.3832	1.1950	-0.3832	1.1950	-0.3832
P-079	1.6134	1.2087	-0.4047	1.2087	-0.4047	1.2087	-0.4047
P-080	1.6777	1.1455	-0.5322	1.1455	-0.5322	1.1455	-0.5322
P-081	1.7009	1.1518	-0.5491	1.1518	-0.5491	1.1518	-0.5491
P-082	1.8400	1.3605	-0.4795	1.3605	-0.4795	1.3605	-0.4795
P-083	1.5868	1.2758	-0.3110	1.2758	-0.3110	1.2758	-0.3110
P-084	1.7734	1.3956	-0.3778	1.3956	-0.3778	1.3956	-0.3778
P-085	2.1074	1.7241	-0.3833	1.7241	-0.3833	1.7241	-0.3833
P-089	---	---	---	1.9330	---	---	---
P-096	---	2.1367	---	2.1367	---	---	---
P-097	2.7651	2.2883	-0.4768	2.2883	-0.4768	2.2883	-0.4768
P-098	2.8260	1.9723	-0.8537	1.9723	-0.8537	1.9723	-0.8537
P-099	2.5707	1.7681	-0.8027	1.7681	-0.8027	1.7681	-0.8027
P-100	2.2367	1.5609	-0.6758	1.5609	-0.6758	1.5609	-0.6758
P-101	2.0724	1.3826	-0.6898	1.3826	-0.6898	1.3826	-0.6898
P-102	1.9001	1.3085	-0.5916	1.3085	-0.5916	1.3085	-0.5916
P-103	---	1.4196	---	1.4196	---	---	---
P-104	---	1.1561	---	1.1561	---	---	---
P-105	---	1.2452	---	1.2452	---	---	---
P-106	1.8879	1.2572	-0.6307	1.2572	-0.6307	1.2572	-0.6307
P-107	1.7819	1.1556	-0.6263	1.1556	-0.6263	1.1556	-0.6263
P-108	---	1.1342	---	1.1342	---	---	---
P-109	1.5370	1.0581	-0.4789	1.0581	-0.4789	1.0581	-0.4789
P-110	1.0893	0.7913	-0.2980	0.7913	-0.2980	0.7913	-0.2980
P-111	0.9313	0.6623	-0.2690	0.6623	-0.2690	0.6623	-0.2690
P-112	1.0672	0.7654	-0.3018	0.7654	-0.3018	0.7654	-0.3018
P-113	0.9323	0.6421	-0.2902	0.6421	-0.2902	0.6421	-0.2902
P-114	0.9904	0.6829	-0.3075	0.6829	-0.3075	0.6829	-0.3075
P-115	1.4034	0.9193	-0.4841	0.9193	-0.4841	0.9193	-0.4841
P-116	1.6184	1.0385	-0.5799	1.0385	-0.5799	1.0385	-0.5799
P-117	1.7793	1.1338	-0.6455	1.1338	-0.6455	1.1338	-0.6455
P-118	1.7280	1.0946	-0.6334	1.0946	-0.6334	1.0946	-0.6334
P-119	1.6579	1.1958	-0.4621	1.1958	-0.4621	1.1958	-0.4621
P-120	2.5934	1.5883	-1.0051	1.5883	-1.0051	1.5883	-1.0051
P-121	2.7327	1.6723	-1.0604	1.6723	-1.0604	1.6723	-1.0604
P-122	2.7529	1.7243	-1.0286	1.7243	-1.0286	1.7243	-1.0286
P-123	2.7871	1.7974	-0.9897	1.7974	-0.9897	1.7974	-0.9897
P-124	1.8584	1.2376	-0.6208	1.2376	-0.6208	1.2376	-0.6208
P-125	1.8940	1.2761	-0.6179	1.2761	-0.6179	1.2761	-0.6179
P-126	2.0139	1.3711	-0.6429	1.3711	-0.6429	1.3711	-0.6429
P-127	2.0554	1.3953	-0.6602	1.3953	-0.6602	1.3953	-0.6602
P-128	2.0804	1.2830	-0.7974	1.2830	-0.7974	1.2830	-0.7974
P-129	2.0290	1.2510	-0.7780	1.2510	-0.7780	1.2510	-0.7780
P-130	1.8378	1.1822	-0.6557	1.1822	-0.6557	1.1822	-0.6557
P-131	1.6027	1.0758	-0.5269	1.0758	-0.5269	1.0758	-0.5269
P-132	1.4916	1.0225	-0.4691	1.0225	-0.4691	1.0225	-0.4691
P-133	1.3772	0.9586	-0.4186	0.9586	-0.4186	0.9586	-0.4186
P-134	1.2652	0.8823	-0.3829	0.8823	-0.3829	0.8823	-0.3829
P-135	1.1733	0.8236	-0.3497	0.8236	-0.3497	0.8236	-0.3497
P-136	1.2290	0.8848	-0.3442	0.8848	-0.3442	0.8848	-0.3442
P-137	1.3261	0.9686	-0.3575	0.9686	-0.3575	0.9686	-0.3575
P-138	1.4367	1.0319	-0.4048	1.0319	-0.4048	1.0319	-0.4048
P-139	1.5795	1.1282	-0.4513	1.1282	-0.4513	1.1282	-0.4513
P-140	1.7514	1.2326	-0.5189	1.2326	-0.5189	1.2326	-0.5189
P-141	1.8942	1.3177	-0.5765	1.3177	-0.5765	1.3177	-0.5765
P-142	2.0803	1.4679	-0.6124	1.4679	-0.6124	1.4679	-0.6124
P-143	2.2349	1.5450	-0.6899	1.5450	-0.6899	1.5450	-0.6899
P-144	2.2495	1.5620	-0.6875	1.5620	-0.6875	1.5620	-0.6875
P-145	2.2669	1.5545	-0.7124	1.5545	-0.7124	1.5545	-0.7124
P-146	2.4737	1.6188	-0.8549	1.6188	-0.8549	1.6188	-0.8549
P-147	2.7882	1.6772	-1.1110	1.6772	-1.1110	1.6772	-1.1110
P-148	3.1501	1.8262	-1.3239	1.8262	-1.3239	1.8262	-1.3239
P-149	2.8964	1.8688	-1.0276	1.8688	-1.0276	1.8688	-1.0276
P-150	2.9606	2.2724	-0.6882	2.2724	-0.6882	2.2724	-0.6882
P-152	5.7315	3.9054	-1.8261	3.9054	-1.8261	3.9054	-1.8261
P-154	3.4543	2.5635	-0.8908	2.5635	-0.8908	2.5635	-0.8908
P-155	3.5996	2.7375	-0.8621	2.7375	-0.8621	2.7375	-0.8621
P-156	3.7338	2.7936	-0.9402	2.7936	-0.9402	2.7936	-0.9402
P-157	3.5883	2.8335	-0.7549	2.8335	-0.7549	2.8335	-0.7549
P-158	3.5861	2.7593	-0.8268	2.7593	-0.8268	2.7593	-0.8268
P-159	3.7699	2.4538	-1.3161	2.4538	-1.3161	2.4538	-1.3161
P-160	4.0007	2.7689	-1.2318	2.7689	-1.2318	2.7689	-1.2318

Attachment 3.3
2030 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-161	5.2762	2.8875	-2.3887	2.8875	-2.3887	2.8875	-2.3887
P-162	6.1251	3.0754	-3.0498	3.0754	-3.0498	3.0754	-3.0498
P-163	5.7833	2.8723	-2.9110	2.8723	-2.9110	2.8723	-2.9110
P-164	6.8063	3.3242	-3.4821	3.3242	-3.4821	3.3242	-3.4821
P-165	7.5439	3.6229	-3.9210	3.6229	-3.9210	3.6229	-3.9210
P-166	7.9220	3.3453	-4.5767	3.3453	-4.5767	3.3453	-4.5767
P-167	7.2675	3.2081	-4.0594	3.2081	-4.0594	3.2081	-4.0594
P-168	5.9787	3.1561	-2.8227	3.1561	-2.8227	3.1561	-2.8227
P-169	7.9245	3.4517	-4.4728	3.4517	-4.4728	3.4517	-4.4728
P-170	6.0500	3.2485	-2.8015	3.2485	-2.8015	3.2485	-2.8015
P-171	5.4857	3.5224	-1.9633	3.5224	-1.9633	3.5224	-1.9633
P-172	4.4303	4.1260	-0.3043	4.1260	-0.3043	4.1260	-0.3043
P-173	4.9343	3.1643	-1.7700	3.1643	-1.7700	3.1643	-1.7700
P-174	4.4130	2.8397	-1.5733	2.8397	-1.5733	2.8397	-1.5733
P-175	4.0908	2.8403	-1.2505	2.8403	-1.2505	2.8403	-1.2505
P-176	3.9383	2.9050	-1.0333	2.9050	-1.0333	2.9050	-1.0333
P-177	3.8573	2.9276	-0.9297	2.9276	-0.9297	2.9276	-0.9297
P-178	3.8632	2.8744	-0.9889	2.8744	-0.9889	2.8744	-0.9889
P-179	3.8441	2.8818	-0.9623	2.8818	-0.9623	2.8818	-0.9623
P-180	3.6700	2.6742	-0.9958	2.6742	-0.9958	2.6742	-0.9958
P-181	3.4850	2.4620	-1.0230	2.4620	-1.0230	2.4620	-1.0230
P-182	3.1231	2.1996	-0.9235	2.1996	-0.9235	2.1996	-0.9235
P-183	2.6921	1.9138	-0.7784	1.9138	-0.7784	1.9138	-0.7784
P-184	2.2658	1.5849	-0.6809	1.5849	-0.6809	1.5849	-0.6809
P-185	2.0149	1.4115	-0.6034	1.4115	-0.6034	1.4115	-0.6034
P-186	1.8062	1.2826	-0.5236	1.2826	-0.5236	1.2826	-0.5236
P-187	1.6495	1.1771	-0.4724	1.1771	-0.4724	1.1771	-0.4724
P-188	1.5852	1.1246	-0.4606	1.1246	-0.4606	1.1246	-0.4606
P-189	0.4731	0.3516	-0.1215	0.3516	-0.1215	0.3516	-0.1215
P-191	4.6878	3.4037	-1.2841	3.4037	-1.2841	3.4037	-1.2841
P-193	3.1166	2.3371	-0.7795	2.3371	-0.7795	2.3371	-0.7795
P-194	3.1558	2.7094	-0.4464	2.7094	-0.4464	2.7094	-0.4464
P-195	2.9793	2.8162	-0.1632	2.8162	-0.1632	2.8162	-0.1632
P-196	2.8917	2.7705	-0.1212	2.7705	-0.1212	2.7705	-0.1212
P-197	2.8302	2.5078	-0.3224	2.5078	-0.3224	2.5078	-0.3224
P-198	2.7546	2.2529	-0.5017	2.2529	-0.5017	2.2529	-0.5017
P-199	2.7388	2.1783	-0.5605	2.1783	-0.5605	2.1783	-0.5605
P-200	2.7504	2.2385	-0.5119	2.2385	-0.5119	2.2385	-0.5119
P-201	1.6578	1.3259	-0.3319	1.3259	-0.3319	1.3259	-0.3319
P-202	1.6541	1.3468	-0.3073	1.3468	-0.3073	1.3468	-0.3073
P-203	1.7096	1.3902	-0.3194	1.3902	-0.3194	1.3902	-0.3194
P-204	1.7521	1.2975	-0.4546	1.2975	-0.4546	1.2975	-0.4546
P-205	1.8057	1.3034	-0.5023	1.3034	-0.5023	1.3034	-0.5023
P-206	1.8754	1.3008	-0.5746	1.3008	-0.5746	1.3008	-0.5746
P-207	1.9645	1.3098	-0.6547	1.3098	-0.6547	1.3098	-0.6547
P-208	1.1984	0.9538	-0.2446	0.9538	-0.2446	0.9538	-0.2446
P-209	1.2233	0.9623	-0.2610	0.9623	-0.2610	0.9623	-0.2610
P-210	1.2409	0.9320	-0.3089	0.9320	-0.3089	0.9320	-0.3089
P-211	1.2909	0.9311	-0.3599	0.9311	-0.3599	0.9311	-0.3599
P-212	1.4073	0.9478	-0.4596	0.9478	-0.4596	0.9478	-0.4596
P-213	1.3647	0.8854	-0.4793	0.8854	-0.4793	0.8854	-0.4793
P-214	1.3186	0.8573	-0.4613	0.8573	-0.4613	0.8573	-0.4613
P-215	1.3814	0.8919	-0.4896	0.8919	-0.4896	0.8919	-0.4896
P-216	1.4927	0.9541	-0.5386	0.9541	-0.5386	0.9541	-0.5386
P-217	1.5656	0.9925	-0.5731	0.9925	-0.5731	0.9925	-0.5731
P-218	1.5612	0.9928	-0.5684	0.9928	-0.5684	0.9928	-0.5684
P-219	1.7549	1.0887	-0.6662	1.0887	-0.6662	1.0887	-0.6662
P-220	1.8753	1.1352	-0.7401	1.1352	-0.7401	1.1352	-0.7401
P-221	1.8045	1.1150	-0.6895	1.1150	-0.6895	1.1150	-0.6895
P-222	2.2110	1.2959	-0.9151	1.2959	-0.9151	1.2959	-0.9151
P-223	2.2597	1.3138	-0.9459	1.3138	-0.9459	1.3138	-0.9459
P-224	2.2605	1.3556	-0.9049	1.3556	-0.9049	1.3556	-0.9049
P-225	2.5829	1.5443	-1.0387	1.5443	-1.0387	1.5443	-1.0387
P-226	2.7796	1.6543	-1.1254	1.6543	-1.1254	1.6543	-1.1254
P-227	2.8560	1.7554	-1.1006	1.7554	-1.1006	1.7554	-1.1006
P-228	2.4638	1.5042	-0.9596	1.5042	-0.9596	1.5042	-0.9596
P-229	2.7120	1.4070	-1.3050	1.4070	-1.3050	1.4070	-1.3050
P-230	2.9966	1.4598	-1.5368	1.4598	-1.5368	1.4598	-1.5368
P-231	1.3831	0.9014	-0.4817	0.9014	-0.4817	0.9014	-0.4817
P-232	3.4885	1.9479	-1.5406	1.9479	-1.5406	1.9479	-1.5406
P-233	3.0964	1.7056	-1.3908	1.7056	-1.3908	1.7056	-1.3908
P-234	2.9196	1.6610	-1.2587	1.6610	-1.2587	1.6610	-1.2587
P-235	3.4114	1.8886	-1.5228	1.8886	-1.5228	1.8886	-1.5228
P-236	2.8406	1.7260	-1.1146	1.7260	-1.1146	1.7260	-1.1146

Attachment 3.3
2030 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-237	3.0774	1.8833	-1.1941	1.8833	-1.1941	1.8833	-1.1941
P-238	2.8829	1.9078	-0.9751	1.9078	-0.9751	1.9078	-0.9751
P-239	3.0281	2.0102	-1.0179	2.0102	-1.0179	2.0102	-1.0179
P-240	3.0009	2.0887	-0.9122	2.0887	-0.9122	2.0887	-0.9122
P-241	3.5429	2.2991	-1.2438	2.2991	-1.2438	2.2991	-1.2438
P-242	3.7150	2.2974	-1.4176	2.2974	-1.4176	2.2974	-1.4176
P-243	4.1545	2.4325	-1.7220	2.4325	-1.7220	2.4325	-1.7220
P-244	5.4639	3.4822	-1.9817	3.4822	-1.9817	3.4822	-1.9817
P-245	4.3053	2.3930	-1.9123	2.3930	-1.9123	2.3930	-1.9123
P-246	5.0105	3.0896	-1.9209	3.0896	-1.9209	3.0896	-1.9209
P-247	3.6134	4.6174	1.0040	4.6174	1.0040	4.6174	1.0040
P-248	4.1665	4.7323	0.5658	4.7323	0.5658	4.7323	0.5658
P-249	3.0375	2.3183	-0.7192	2.3183	-0.7192	2.3183	-0.7192
P-250	2.6117	2.1644	-0.4473	2.1644	-0.4473	2.1644	-0.4473
P-251	2.3626	1.7945	-0.5681	1.7945	-0.5681	1.7945	-0.5681
P-252	1.9688	1.0192	-0.9496	1.0192	-0.9496	1.0192	-0.9496
P-253	2.3484	1.2431	-1.1053	1.2431	-1.1053	1.2431	-1.1053
P-254	2.4540	1.3864	-1.0677	1.3864	-1.0677	1.3864	-1.0677
P-255	2.4535	1.4670	-0.9865	1.4670	-0.9865	1.4670	-0.9865
P-256	2.2301	1.5728	-0.6573	1.5728	-0.6573	1.5728	-0.6573
P-257	2.0052	1.7150	-0.2903	1.7150	-0.2903	1.7150	-0.2903
P-258	2.0023	1.6995	-0.3028	1.6995	-0.3028	1.6995	-0.3028
P-259	1.9950	1.4597	-0.5354	1.4597	-0.5354	1.4597	-0.5354
P-260	2.2656	1.9330	-0.3326	1.9330	-0.3326	1.9330	-0.3326
P-261	2.7263	2.2843	-0.4420	2.2843	-0.4420	2.2843	-0.4420
P-262	2.9060	2.3706	-0.5354	2.3706	-0.5354	2.3706	-0.5354
P-263	2.9617	2.4433	-0.5184	2.4433	-0.5184	2.4433	-0.5184
P-264	4.0043	2.7881	-1.2162	2.7881	-1.2162	2.7881	-1.2162
P-265	3.1610	2.6247	-0.5363	2.6247	-0.5363	2.6247	-0.5363
P-266	4.0375	3.1233	-0.9142	3.1233	-0.9142	3.1233	-0.9142
P-267	3.5655	2.9503	-0.6152	2.9503	-0.6152	2.9503	-0.6152
P-268	4.1240	3.4795	-0.6445	3.4795	-0.6445	3.4795	-0.6445
P-269	4.3899	3.7487	-0.6413	3.7487	-0.6413	3.7487	-0.6413
P-270	3.7516	3.6745	-0.0771	3.6745	-0.0771	3.6745	-0.0771
P-271	3.7185	3.2738	-0.4447	3.2738	-0.4447	3.2738	-0.4447
P-272	3.7368	3.0099	-0.7269	3.0099	-0.7269	3.0099	-0.7269
P-273	3.9485	2.7930	-1.1555	2.7930	-1.1555	2.7930	-1.1555
P-274	5.1050	3.6595	-1.4455	3.6595	-1.4455	3.6595	-1.4455
P-275	4.9509	3.4348	-1.5161	3.4348	-1.5161	3.4348	-1.5161
P-276	4.2898	2.9554	-1.3344	2.9554	-1.3344	2.9554	-1.3344
P-277	4.4403	2.9314	-1.5089	2.9314	-1.5089	2.9314	-1.5089
P-278	4.0549	2.6890	-1.3659	2.6890	-1.3659	2.6890	-1.3659
P-279	3.9654	2.5819	-1.3835	2.5819	-1.3835	2.5819	-1.3835
P-280	4.2637	2.7770	-1.4867	2.7770	-1.4867	2.7770	-1.4867
P-281	---	3.4118	---	3.4118	---	---	---
P-282	---	3.8108	---	3.8108	---	---	---
P-283	---	3.5057	---	3.5057	---	---	---
P-284	---	3.7230	---	3.7230	---	---	---
P-285	---	3.4419	---	3.4419	---	---	---
P-286	3.9434	2.4496	-1.4938	2.4496	-1.4938	2.4496	-1.4938
P-287	3.9409	2.4138	-1.5272	2.4138	-1.5272	2.4138	-1.5272
P-288	---	3.4333	---	3.4333	---	---	---
P-289	---	3.4221	---	3.4221	---	---	---
P-290	3.7900	2.3683	-1.4217	2.3683	-1.4217	2.3683	-1.4217
P-291	3.5611	2.3090	-1.2521	2.3090	-1.2521	2.3090	-1.2521
P-292	---	3.4431	---	3.4431	---	---	---
P-293	---	3.4308	---	3.4308	---	---	---
P-294	3.3883	2.2450	-1.1433	2.2450	-1.1433	2.2450	-1.1433
P-295	3.1583	2.1329	-1.0254	2.1329	-1.0254	2.1329	-1.0254
P-296	---	---	---	2.9307	---	---	---
P-297	---	3.4138	---	3.4138	---	---	---
P-298	---	3.4680	---	3.4680	---	---	---
P-299	2.9737	2.1665	-0.8072	2.1665	-0.8072	2.1665	-0.8072
P-300	2.3464	2.2987	-0.0477	2.2987	-0.0477	2.2987	-0.0477
P-302	2.9157	2.3286	-0.5872	2.3286	-0.5872	2.3286	-0.5872
P-303	---	3.5457	---	3.5457	---	---	---
P-304	---	3.9476	---	3.9476	---	---	---
P-305	---	3.5380	---	3.5380	---	---	---
P-306	---	2.6066	---	2.6066	---	---	---
P-307	---	3.1676	---	3.1676	---	---	---
P-308	4.3668	3.4874	-0.8794	3.4874	-0.8794	3.4874	-0.8794
P-309	4.1445	2.7091	-1.4354	2.7091	-1.4354	2.7091	-1.4354
P-310	1.8798	2.1036	0.2238	2.1036	0.2238	2.1036	0.2238
P-311	2.0725	2.2715	0.1990	2.2715	0.1990	2.2715	0.1990

Attachment 3.3
2030 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-312	2.3916	2.1253	-0.2663	2.1253	-0.2663	2.1253	-0.2663
P-313	2.5943	1.9134	-0.6809	1.9134	-0.6809	1.9134	-0.6809
P-314	2.8365	2.1288	-0.7078	2.1288	-0.7078	2.1288	-0.7078
P-315	2.8575	2.3351	-0.5224	2.3351	-0.5224	2.3351	-0.5224
P-316	1.9693	1.5956	-0.3737	1.5956	-0.3737	1.5956	-0.3737
P-317	2.3182	1.9825	-0.3357	1.9825	-0.3357	1.9825	-0.3357
P-318	4.0416	3.5872	-0.4544	3.5872	-0.4544	3.5872	-0.4544
P-322	3.7690	3.6496	-0.1194	3.6496	-0.1194	3.6496	-0.1194
P-323	3.8604	2.4792	-1.3812	2.4792	-1.3812	2.4792	-1.3812
P-324	2.8706	2.0721	-0.7985	2.0721	-0.7985	2.0721	-0.7985
P-325	2.2866	2.0400	-0.2466	2.0400	-0.2466	2.0400	-0.2466
P-326	1.9996	1.7807	-0.2189	1.7807	-0.2189	1.7807	-0.2189
P-327	1.8256	1.2748	-0.5508	1.2748	-0.5508	1.2748	-0.5508
P-328	1.9657	1.5693	-0.3964	1.5693	-0.3964	1.5693	-0.3964
P-329	1.9670	1.5634	-0.4036	1.5634	-0.4036	1.5634	-0.4036
P-330	1.9698	1.5437	-0.4261	1.5437	-0.4261	1.5437	-0.4261
P-331	1.2824	0.8762	-0.4062	0.8762	-0.4062	0.8762	-0.4062
P-332	1.0826	0.8186	-0.2640	0.8186	-0.2640	0.8186	-0.2640
P-333	1.3539	1.0559	-0.2981	1.0559	-0.2981	1.0559	-0.2981
P-334	1.3648	1.5442	0.1794	1.5442	0.1794	1.5442	0.1794
P-335	1.2841	1.1883	-0.0958	1.1883	-0.0958	1.1883	-0.0958
P-336	1.3171	1.0008	-0.3163	1.0008	-0.3163	1.0008	-0.3163
P-337	1.3030	0.9652	-0.3378	0.9652	-0.3378	0.9652	-0.3378
P-338	1.3025	0.9391	-0.3635	0.9391	-0.3635	0.9391	-0.3635
P-339	1.2993	0.9168	-0.3825	0.9168	-0.3825	0.9168	-0.3825
P-340	1.3095	0.9007	-0.4088	0.9007	-0.4088	0.9007	-0.4088
P-341	1.1623	1.0679	-0.0945	1.0679	-0.0945	1.0679	-0.0945
P-342	1.1940	1.5172	0.3232	1.5172	0.3232	1.5172	0.3232
P-343	1.0624	0.9570	-0.1054	0.9570	-0.1054	0.9570	-0.1054
P-344	1.1219	1.3489	0.2270	1.3489	0.2270	1.3489	0.2270
P-345	1.0120	0.9540	-0.0580	0.9540	-0.0580	0.9540	-0.0580
P-346	1.3017	1.4861	0.1844	1.4861	0.1844	1.4861	0.1844
P-347	0.9658	0.9861	0.0203	0.9861	0.0203	0.9861	0.0203
P-348	1.0218	0.8370	-0.1849	0.8370	-0.1849	0.8370	-0.1849
P-349	1.0641	0.8280	-0.2361	0.8280	-0.2361	0.8280	-0.2361
P-350	1.1518	0.8458	-0.3060	0.8458	-0.3060	0.8458	-0.3060
P-351	1.3874	1.0473	-0.3401	1.0473	-0.3401	1.0473	-0.3401
P-352	1.3225	1.0418	-0.2807	1.0418	-0.2807	1.0418	-0.2807
P-353	1.2620	1.0567	-0.2054	1.0567	-0.2054	1.0567	-0.2054
P-354	1.7106	1.6010	-0.1096	1.6010	-0.1096	1.6010	-0.1096
P-355	2.2103	1.9828	-0.2275	1.9828	-0.2275	1.9828	-0.2275
P-356	2.4288	2.1075	-0.3213	2.1075	-0.3213	2.1075	-0.3213
P-357	1.6305	1.4870	-0.1436	1.4870	-0.1436	1.4870	-0.1436
P-358	1.1286	1.0328	-0.0958	1.0328	-0.0958	1.0328	-0.0958
P-359	1.1125	0.9639	-0.1486	0.9639	-0.1486	0.9639	-0.1486
P-360	1.0273	0.9733	-0.0541	0.9733	-0.0541	0.9733	-0.0541
P-361	1.2983	1.2473	-0.0510	1.2473	-0.0510	1.2473	-0.0510
P-362	1.2489	1.3931	0.1442	1.3931	0.1442	1.3931	0.1442
P-363	1.3827	1.3239	-0.0588	1.3239	-0.0588	1.3239	-0.0588
P-364	1.6289	1.5091	-0.1198	1.5091	-0.1198	1.5091	-0.1198
P-365	1.7665	1.6572	-0.1093	1.6572	-0.1093	1.6572	-0.1093
P-366	1.8733	1.7660	-0.1073	1.7660	-0.1073	1.7660	-0.1073
P-367	2.0791	1.8967	-0.1824	1.8967	-0.1824	1.8967	-0.1824
P-368	1.9456	2.0205	0.0748	2.0205	0.0748	2.0205	0.0748
P-369	1.9753	2.0628	0.0875	2.0628	0.0875	2.0628	0.0875
P-370	2.4237	2.1952	-0.2285	2.1952	-0.2285	2.1952	-0.2285
P-371	1.5850	1.4674	-0.1176	1.4674	-0.1176	1.4674	-0.1176
P-372	1.5604	1.2709	-0.2895	1.2709	-0.2895	1.2709	-0.2895
P-373	1.3721	1.1454	-0.2267	1.1454	-0.2267	1.1454	-0.2267
P-374	1.3030	1.1333	-0.1697	1.1333	-0.1697	1.1333	-0.1697
P-375	1.2563	1.1040	-0.1523	1.1040	-0.1523	1.1040	-0.1523
P-376	1.5479	1.4174	-0.1305	1.4174	-0.1305	1.4174	-0.1305
P-377	1.3951	1.2583	-0.1368	1.2583	-0.1368	1.2583	-0.1368
P-378	4.7846	2.8798	-1.9048	2.8798	-1.9048	2.8798	-1.9048

Attachment 3.4
2050 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-001	0.0735	0.0603	-0.0132	0.0603	-0.0132	0.0603	-0.0132
P-002	0.1705	0.1289	-0.0416	0.1289	-0.0416	0.1289	-0.0416
P-003	0.3050	0.2580	-0.0470	0.2580	-0.0470	0.2580	-0.0470
P-004	0.3474	0.2764	-0.0710	0.2764	-0.0710	0.2764	-0.0710
P-005	0.4743	0.3919	-0.0824	0.3919	-0.0824	0.3919	-0.0824
P-006	0.5273	0.4723	-0.0550	0.4723	-0.0550	0.4723	-0.0550
P-007	0.5374	0.5011	-0.0363	0.5011	-0.0363	0.5011	-0.0363
P-008	0.5294	0.4945	-0.0350	0.4945	-0.0350	0.4945	-0.0350
P-009	0.5510	0.4932	-0.0579	0.4932	-0.0579	0.4932	-0.0579
P-010	0.6419	0.6010	-0.0409	0.6010	-0.0409	0.6010	-0.0409
P-011	0.6970	0.6421	-0.0549	0.6421	-0.0549	0.6421	-0.0549
P-012	0.7377	0.6602	-0.0774	0.6602	-0.0774	0.6602	-0.0774
P-013	0.7168	0.6170	-0.0997	0.6170	-0.0997	0.6170	-0.0997
P-014	0.6092	0.5210	-0.0882	0.5210	-0.0882	0.5210	-0.0882
P-015	0.7321	0.5733	-0.1588	0.5733	-0.1588	0.5733	-0.1588
P-016	1.2300	0.8235	-0.4065	0.8235	-0.4065	0.8235	-0.4065
P-017	2.2914	1.3393	-0.9521	1.3393	-0.9521	1.3393	-0.9521
P-018	1.1723	0.8837	-0.2886	0.8837	-0.2886	0.8837	-0.2886
P-019	1.0478	0.9073	-0.1405	0.9073	-0.1405	0.9073	-0.1405
P-020	2.1358	1.4386	-0.6973	1.4386	-0.6973	1.4386	-0.6973
P-021	1.0554	0.7241	-0.3313	0.7241	-0.3313	0.7241	-0.3313
P-022	1.4042	0.9073	-0.4969	0.9073	-0.4969	0.9073	-0.4969
P-023	1.3669	0.8931	-0.4738	0.8931	-0.4738	0.8931	-0.4738
P-024	1.3302	0.9192	-0.4109	0.9192	-0.4109	0.9192	-0.4109
P-025	1.3057	0.9378	-0.3679	0.9378	-0.3679	0.9378	-0.3679
P-026	1.4637	1.0013	-0.4624	1.0013	-0.4624	1.0013	-0.4624
P-027	1.7189	1.1913	-0.5276	1.1913	-0.5276	1.1913	-0.5276
P-028	1.5711	1.1555	-0.4156	1.1555	-0.4156	1.1555	-0.4156
P-029	1.5613	1.1692	-0.3921	1.1692	-0.3921	1.1692	-0.3921
P-030	1.6237	1.1609	-0.4628	1.1609	-0.4628	1.1609	-0.4628
P-031	---	1.6081	---	1.6081	---	---	---
P-032	1.8638	1.4875	-0.3763	1.4875	-0.3763	1.4875	-0.3763
P-033	---	1.6422	---	1.6422	---	---	---
P-034	---	1.7727	---	1.7727	---	---	---
P-035	2.1707	1.8948	-0.2759	1.8948	-0.2759	1.8948	-0.2759
P-036	---	1.4873	---	1.4873	---	---	---
P-037	1.5386	1.5009	-0.0377	1.5009	-0.0377	1.5009	-0.0377
P-038	---	1.3464	---	1.3464	---	---	---
P-039	---	1.2497	---	1.2497	---	---	---
P-041	---	1.2860	---	1.2860	---	---	---
P-042	---	1.2298	---	1.2298	---	---	---
P-043	---	0.9858	---	0.9858	---	---	---
P-044	---	1.1135	---	1.1135	---	---	---
P-045	1.5470	1.3056	-0.2415	1.3056	-0.2415	1.3056	-0.2415
P-046	---	1.1023	---	1.1023	---	---	---
P-047	---	0.9643	---	0.9643	---	---	---
P-048	---	1.1194	---	1.1194	---	---	---
P-049	0.5130	0.3840	-0.1290	0.3840	-0.1290	0.3840	-0.1290
P-050	0.5086	0.3724	-0.1363	0.3724	-0.1363	0.3724	-0.1363
P-051	0.5276	0.3958	-0.1318	0.3958	-0.1318	0.3958	-0.1318
P-052	0.5367	0.4238	-0.1129	0.4238	-0.1129	0.4238	-0.1129
P-053	0.5672	0.4533	-0.1139	0.4533	-0.1139	0.4533	-0.1139
P-054	0.5942	0.4799	-0.1143	0.4799	-0.1143	0.4799	-0.1143
P-055	0.6138	0.5048	-0.1090	0.5048	-0.1090	0.5048	-0.1090
P-056	0.7042	0.6099	-0.0943	0.6099	-0.0943	0.6099	-0.0943
P-057	0.8550	0.7172	-0.1379	0.7172	-0.1379	0.7172	-0.1379
P-058	0.3839	0.3131	-0.0708	0.3131	-0.0708	0.3131	-0.0708
P-059	0.3879	0.3100	-0.0779	0.3100	-0.0779	0.3100	-0.0779
P-060	0.4111	0.3157	-0.0954	0.3157	-0.0954	0.3157	-0.0954
P-061	0.4976	0.4060	-0.0916	0.4060	-0.0916	0.4060	-0.0916
P-062	0.4822	0.3877	-0.0945	0.3877	-0.0945	0.3877	-0.0945
P-063	0.4965	0.4196	-0.0769	0.4196	-0.0769	0.4196	-0.0769
P-064	0.5649	0.5151	-0.0498	0.5151	-0.0498	0.5151	-0.0498
P-065	0.7703	0.7965	0.0262	0.7965	0.0262	0.7965	0.0262
P-066	0.5755	0.4583	-0.1172	0.4583	-0.1172	0.4583	-0.1172
P-067	0.6609	0.5203	-0.1406	0.5203	-0.1406	0.5203	-0.1406
P-068	0.7601	0.5802	-0.1799	0.5802	-0.1799	0.5802	-0.1799
P-069	0.9260	0.6910	-0.2350	0.6910	-0.2350	0.6910	-0.2350
P-070	0.9016	0.6730	-0.2286	0.6730	-0.2286	0.6730	-0.2286
P-071	0.8759	0.6684	-0.2075	0.6684	-0.2075	0.6684	-0.2075
P-072	0.8590	0.6727	-0.1864	0.6727	-0.1864	0.6727	-0.1864
P-073	0.8762	0.6916	-0.1846	0.6916	-0.1846	0.6916	-0.1846
P-074	0.8531	0.6977	-0.1554	0.6977	-0.1554	0.6977	-0.1554
P-075	1.1102	0.9127	-0.1974	0.9127	-0.1974	0.9127	-0.1974

Attachment 3.4
2050 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-076	1.0629	0.8243	-0.2386	0.8243	-0.2386	0.8243	-0.2386
P-077	1.1014	0.8331	-0.2683	0.8331	-0.2683	0.8331	-0.2683
P-078	1.1656	0.8979	-0.2678	0.8979	-0.2678	0.8979	-0.2678
P-079	1.1715	0.9132	-0.2583	0.9132	-0.2583	0.9132	-0.2583
P-080	1.2205	0.8694	-0.3511	0.8694	-0.3511	0.8694	-0.3511
P-081	1.2501	0.8839	-0.3662	0.8839	-0.3662	0.8839	-0.3662
P-082	1.3581	1.0146	-0.3434	1.0146	-0.3434	1.0146	-0.3434
P-083	1.1992	0.9344	-0.2648	0.9344	-0.2648	0.9344	-0.2648
P-084	1.3181	1.0380	-0.2801	1.0380	-0.2801	1.0380	-0.2801
P-085	1.5890	1.2626	-0.3264	1.2626	-0.3264	1.2626	-0.3264
P-089	---	---	---	1.4407	---	---	---
P-096	---	1.6641	---	1.6641	---	---	---
P-097	2.0584	1.8050	-0.2534	1.8050	-0.2534	1.8050	-0.2534
P-098	2.1011	1.5643	-0.5367	1.5643	-0.5367	1.5643	-0.5367
P-099	1.9081	1.4215	-0.4866	1.4215	-0.4866	1.4215	-0.4866
P-100	1.6221	1.2903	-0.3318	1.2903	-0.3318	1.2903	-0.3318
P-101	1.4505	1.1878	-0.2626	1.1878	-0.2626	1.1878	-0.2626
P-102	1.3598	1.0468	-0.3130	1.0468	-0.3130	1.0468	-0.3130
P-103	---	1.1024	---	1.1024	---	---	---
P-104	---	0.9194	---	0.9194	---	---	---
P-105	---	1.0613	---	1.0613	---	---	---
P-106	1.3354	1.1109	-0.2245	1.1109	-0.2245	1.1109	-0.2245
P-107	1.2495	1.0114	-0.2380	1.0114	-0.2380	1.0114	-0.2380
P-108	---	0.9488	---	0.9488	---	---	---
P-109	1.0758	0.8687	-0.2071	0.8687	-0.2071	0.8687	-0.2071
P-110	0.8048	0.6388	-0.1660	0.6388	-0.1660	0.6388	-0.1660
P-111	0.7015	0.5326	-0.1688	0.5326	-0.1688	0.5326	-0.1688
P-112	0.8289	0.5935	-0.2354	0.5935	-0.2354	0.5935	-0.2354
P-113	0.6998	0.4931	-0.2068	0.4931	-0.2068	0.4931	-0.2068
P-114	0.7395	0.5291	-0.2104	0.5291	-0.2104	0.5291	-0.2104
P-115	1.1341	0.7139	-0.4202	0.7139	-0.4202	0.7139	-0.4202
P-116	1.3167	0.7921	-0.5246	0.7921	-0.5246	0.7921	-0.5246
P-117	1.4614	0.8598	-0.6016	0.8598	-0.6016	0.8598	-0.6016
P-118	1.4383	0.8199	-0.6184	0.8199	-0.6184	0.8199	-0.6184
P-119	1.2525	0.8926	-0.3599	0.8926	-0.3599	0.8926	-0.3599
P-120	2.1776	1.1956	-0.9820	1.1956	-0.9820	1.1956	-0.9820
P-121	2.2447	1.2701	-0.9746	1.2701	-0.9746	1.2701	-0.9746
P-122	2.2671	1.3306	-0.9365	1.3306	-0.9365	1.3306	-0.9365
P-123	2.2809	1.3946	-0.8863	1.3946	-0.8863	1.3946	-0.8863
P-124	1.5160	0.9434	-0.5727	0.9434	-0.5727	0.9434	-0.5727
P-125	1.5466	0.9828	-0.5638	0.9828	-0.5638	0.9828	-0.5638
P-126	1.5979	1.0662	-0.5317	1.0662	-0.5317	1.0662	-0.5317
P-127	1.6761	1.0780	-0.5981	1.0780	-0.5981	1.0780	-0.5981
P-128	1.6515	0.9971	-0.6544	0.9971	-0.6544	0.9971	-0.6544
P-129	1.5903	0.9851	-0.6052	0.9851	-0.6052	0.9851	-0.6052
P-130	1.4748	0.9340	-0.5407	0.9340	-0.5407	0.9340	-0.5407
P-131	1.2334	0.8439	-0.3895	0.8439	-0.3895	0.8439	-0.3895
P-132	1.1572	0.8091	-0.3481	0.8091	-0.3481	0.8091	-0.3481
P-133	1.0452	0.7549	-0.2903	0.7549	-0.2903	0.7549	-0.2903
P-134	0.9473	0.6944	-0.2529	0.6944	-0.2529	0.6944	-0.2529
P-135	0.8767	0.6451	-0.2316	0.6451	-0.2316	0.6451	-0.2316
P-136	0.9206	0.7130	-0.2076	0.7130	-0.2076	0.7130	-0.2076
P-137	0.9982	0.7754	-0.2228	0.7754	-0.2228	0.7754	-0.2228
P-138	1.0848	0.8337	-0.2510	0.8337	-0.2510	0.8337	-0.2510
P-139	1.1887	0.9183	-0.2704	0.9183	-0.2704	0.9183	-0.2704
P-140	1.3220	1.0010	-0.3210	1.0010	-0.3210	1.0010	-0.3210
P-141	1.4258	1.0579	-0.3679	1.0579	-0.3679	1.0579	-0.3679
P-142	1.5818	1.1723	-0.4095	1.1723	-0.4095	1.1723	-0.4095
P-143	1.7049	1.2459	-0.4590	1.2459	-0.4590	1.2459	-0.4590
P-144	1.7680	1.2675	-0.5005	1.2675	-0.5005	1.2675	-0.5005
P-145	1.8356	1.2713	-0.5643	1.2713	-0.5643	1.2713	-0.5643
P-146	2.0315	1.3009	-0.7306	1.3009	-0.7306	1.3009	-0.7306
P-147	2.2477	1.3293	-0.9184	1.3293	-0.9184	1.3293	-0.9184
P-148	2.5468	1.4083	-1.1386	1.4083	-1.1386	1.4083	-1.1386
P-149	2.3455	1.4724	-0.8731	1.4724	-0.8731	1.4724	-0.8731
P-150	2.3339	1.6771	-0.6568	1.6771	-0.6568	1.6771	-0.6568
P-152	4.5844	2.9935	-1.5910	2.9935	-1.5910	2.9935	-1.5910
P-154	2.7384	1.9468	-0.7916	1.9468	-0.7916	1.9468	-0.7916
P-155	2.8467	2.0912	-0.7556	2.0912	-0.7556	2.0912	-0.7556
P-156	2.9005	2.0972	-0.8034	2.0972	-0.8034	2.0972	-0.8034
P-157	2.6903	2.0751	-0.6152	2.0751	-0.6152	2.0751	-0.6152
P-158	2.7869	2.0033	-0.7836	2.0033	-0.7836	2.0033	-0.7836
P-159	3.1094	1.7953	-1.3141	1.7953	-1.3141	1.7953	-1.3141
P-160	3.3391	2.0264	-1.3128	2.0264	-1.3128	2.0264	-1.3128

Attachment 3.4
2050 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-161	4.6245	2.1614	-2.4631	2.1614	-2.4631	2.1614	-2.4631
P-162	5.4937	2.3953	-3.0984	2.3953	-3.0984	2.3953	-3.0984
P-163	5.0519	2.1766	-2.8754	2.1766	-2.8754	2.1766	-2.8754
P-164	6.0013	2.5588	-3.4425	2.5588	-3.4425	2.5588	-3.4425
P-165	6.6569	2.7332	-3.9237	2.7332	-3.9237	2.7332	-3.9237
P-166	6.8019	2.4928	-4.3091	2.4928	-4.3091	2.4928	-4.3091
P-167	6.1641	2.4183	-3.7458	2.4183	-3.7458	2.4183	-3.7458
P-168	5.0782	2.4883	-2.5900	2.4883	-2.5900	2.4883	-2.5900
P-169	7.1596	2.8127	-4.3469	2.8127	-4.3469	2.8127	-4.3469
P-170	5.1906	2.6100	-2.5805	2.6100	-2.5805	2.6100	-2.5805
P-171	4.6348	2.7088	-1.9260	2.7088	-1.9260	2.7088	-1.9260
P-172	3.6335	3.3957	-0.2378	3.3957	-0.2378	3.3957	-0.2378
P-173	4.1677	2.4895	-1.6782	2.4895	-1.6782	2.4895	-1.6782
P-174	3.6648	2.2721	-1.3927	2.2721	-1.3927	2.2721	-1.3927
P-175	3.3330	2.3258	-1.0072	2.3258	-1.0072	2.3258	-1.0072
P-176	3.2294	2.4116	-0.8177	2.4116	-0.8177	2.4116	-0.8177
P-177	3.1144	2.4317	-0.6827	2.4317	-0.6827	2.4317	-0.6827
P-178	3.0759	2.4279	-0.6480	2.4279	-0.6480	2.4279	-0.6480
P-179	3.0252	2.4106	-0.6147	2.4106	-0.6147	2.4106	-0.6147
P-180	2.8557	2.2364	-0.6192	2.2364	-0.6192	2.2364	-0.6192
P-181	2.6579	2.0509	-0.6070	2.0509	-0.6070	2.0509	-0.6070
P-182	2.3430	1.8104	-0.5326	1.8104	-0.5326	1.8104	-0.5326
P-183	2.0199	1.5716	-0.4483	1.5716	-0.4483	1.5716	-0.4483
P-184	1.6753	1.3291	-0.3462	1.3291	-0.3462	1.3291	-0.3462
P-185	1.4820	1.1782	-0.3037	1.1782	-0.3037	1.1782	-0.3037
P-186	1.3167	1.0687	-0.2480	1.0687	-0.2480	1.0687	-0.2480
P-187	1.1918	0.9806	-0.2113	0.9806	-0.2113	0.9806	-0.2113
P-188	1.1374	0.9363	-0.2011	0.9363	-0.2011	0.9363	-0.2011
P-189	0.3536	0.2675	-0.0861	0.2675	-0.0861	0.2675	-0.0861
P-191	3.4601	2.4938	-0.9663	2.4938	-0.9663	2.4938	-0.9663
P-193	2.4033	1.7462	-0.6572	1.7462	-0.6572	1.7462	-0.6572
P-194	2.5158	2.0930	-0.4228	2.0930	-0.4228	2.0930	-0.4228
P-195	2.3368	2.2061	-0.1307	2.2061	-0.1307	2.2061	-0.1307
P-196	2.1220	2.1219	-0.0002	2.1219	-0.0002	2.1219	-0.0002
P-197	2.0549	1.8377	-0.2172	1.8377	-0.2172	1.8377	-0.2172
P-198	2.0264	1.6004	-0.4260	1.6004	-0.4260	1.6004	-0.4260
P-199	2.0299	1.5080	-0.5219	1.5080	-0.5219	1.5080	-0.5219
P-200	2.0416	1.5561	-0.4855	1.5561	-0.4855	1.5561	-0.4855
P-201	1.2565	0.9842	-0.2723	0.9842	-0.2723	0.9842	-0.2723
P-202	1.2425	1.0038	-0.2387	1.0038	-0.2387	1.0038	-0.2387
P-203	1.2829	1.0203	-0.2626	1.0203	-0.2626	1.0203	-0.2626
P-204	1.3198	0.9259	-0.3939	0.9259	-0.3939	0.9259	-0.3939
P-205	1.3811	0.9398	-0.4413	0.9398	-0.4413	0.9398	-0.4413
P-206	1.4515	0.9544	-0.4972	0.9544	-0.4972	0.9544	-0.4972
P-207	1.5489	0.9705	-0.5784	0.9705	-0.5784	0.9705	-0.5784
P-208	0.9060	0.7070	-0.1991	0.7070	-0.1991	0.7070	-0.1991
P-209	0.9263	0.7080	-0.2183	0.7080	-0.2183	0.7080	-0.2183
P-210	0.9476	0.6891	-0.2585	0.6891	-0.2585	0.6891	-0.2585
P-211	0.9915	0.6871	-0.3044	0.6871	-0.3044	0.6871	-0.3044
P-212	1.1066	0.7140	-0.3926	0.7140	-0.3926	0.7140	-0.3926
P-213	1.1427	0.6727	-0.4700	0.6727	-0.4700	0.6727	-0.4700
P-214	1.0831	0.6512	-0.4319	0.6512	-0.4319	0.6512	-0.4319
P-215	1.1355	0.6815	-0.4539	0.6815	-0.4539	0.6815	-0.4539
P-216	1.2565	0.7319	-0.5247	0.7319	-0.5247	0.7319	-0.5247
P-217	1.3374	0.7615	-0.5759	0.7615	-0.5759	0.7615	-0.5759
P-218	1.3165	0.7606	-0.5559	0.7606	-0.5559	0.7606	-0.5559
P-219	1.5081	0.8454	-0.6627	0.8454	-0.6627	0.8454	-0.6627
P-220	1.6449	0.8884	-0.7566	0.8884	-0.7566	0.8884	-0.7566
P-221	1.5433	0.8609	-0.6825	0.8609	-0.6825	0.8609	-0.6825
P-222	1.9714	1.0272	-0.9442	1.0272	-0.9442	1.0272	-0.9442
P-223	2.0026	1.0365	-0.9662	1.0365	-0.9662	1.0365	-0.9662
P-224	2.0435	1.0817	-0.9618	1.0817	-0.9618	1.0817	-0.9618
P-225	2.3427	1.2498	-1.0929	1.2498	-1.0929	1.2498	-1.0929
P-226	2.5291	1.3402	-1.1890	1.3402	-1.1890	1.3402	-1.1890
P-227	2.6562	1.4091	-1.2471	1.4091	-1.2471	1.4091	-1.2471
P-228	2.2723	1.2120	-1.0603	1.2120	-1.0603	1.2120	-1.0603
P-229	2.5444	1.1356	-1.4088	1.1356	-1.4088	1.1356	-1.4088
P-230	2.8258	1.1760	-1.6498	1.1760	-1.6498	1.1760	-1.6498
P-231	1.2002	0.7118	-0.4884	0.7118	-0.4884	0.7118	-0.4884
P-232	3.2047	1.5556	-1.6491	1.5556	-1.6491	1.5556	-1.6491
P-233	2.8499	1.3700	-1.4800	1.3700	-1.4800	1.3700	-1.4800
P-234	2.6312	1.2940	-1.3371	1.2940	-1.3371	1.2940	-1.3371
P-235	3.1171	1.4840	-1.6332	1.4840	-1.6332	1.4840	-1.6332
P-236	2.4494	1.3109	-1.1386	1.3109	-1.1386	1.3109	-1.1386

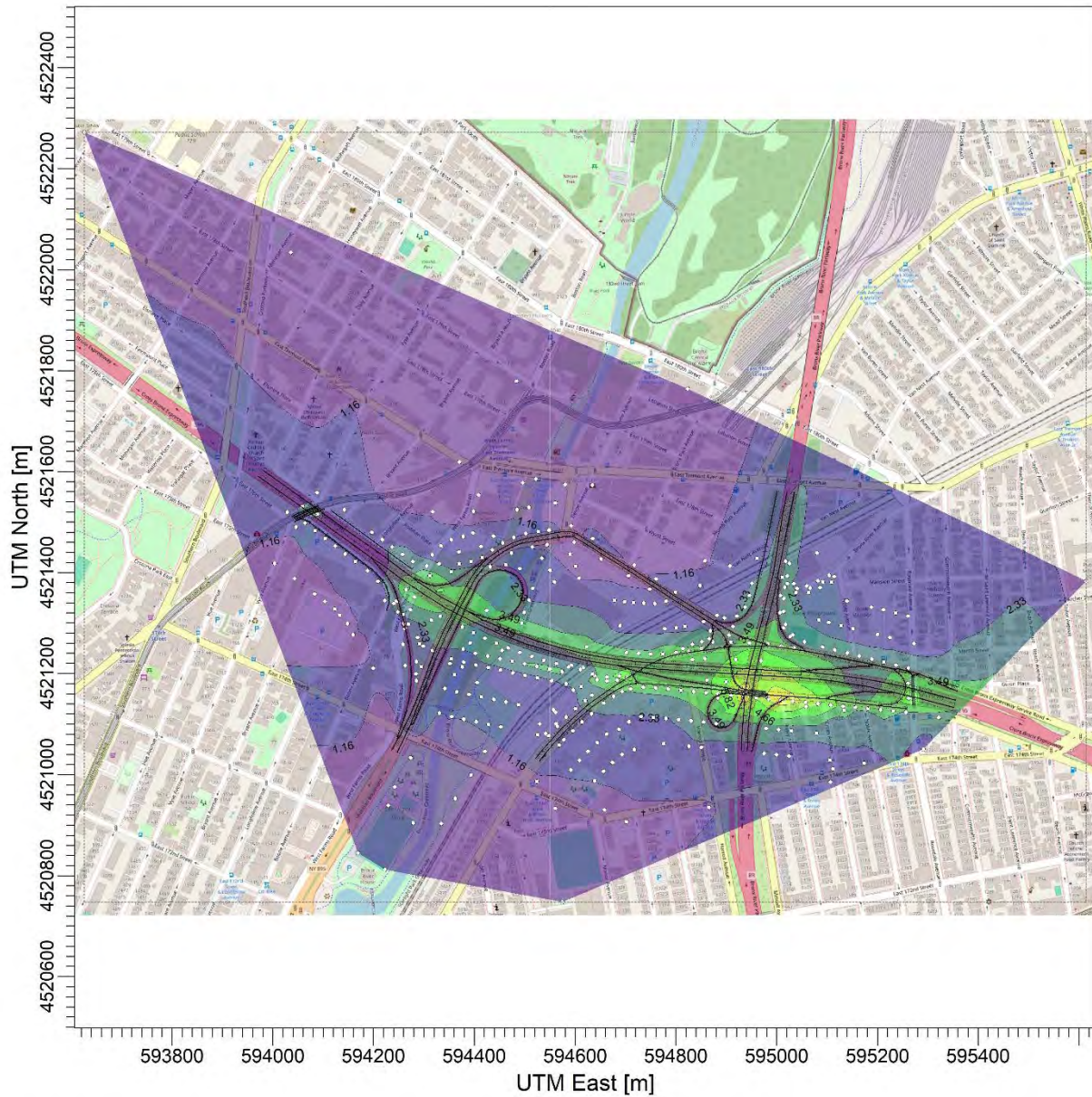
Attachment 3.4
2050 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-237	2.6223	1.4176	-1.2047	1.4176	-1.2047	1.4176	-1.2047
P-238	2.3565	1.4011	-0.9554	1.4011	-0.9554	1.4011	-0.9554
P-239	2.4824	1.4637	-1.0188	1.4637	-1.0188	1.4637	-1.0188
P-240	2.2663	1.5072	-0.7591	1.5072	-0.7591	1.5072	-0.7591
P-241	2.6909	1.7122	-0.9787	1.7122	-0.9787	1.7122	-0.9787
P-242	2.9541	1.7034	-1.2507	1.7034	-1.2507	1.7034	-1.2507
P-243	3.4841	1.8487	-1.6354	1.8487	-1.6354	1.8487	-1.6354
P-244	4.6884	2.5120	-2.1764	2.5120	-2.1764	2.5120	-2.1764
P-245	3.8081	1.7771	-2.0311	1.7771	-2.0311	1.7771	-2.0311
P-246	4.1684	2.3303	-1.8382	2.3303	-1.8382	2.3303	-1.8382
P-247	2.9152	4.0418	1.1266	4.0418	1.1266	4.0418	1.1266
P-248	3.3453	4.1580	0.8127	4.1580	0.8127	4.1580	0.8127
P-249	2.4198	1.8040	-0.6158	1.8040	-0.6158	1.8040	-0.6158
P-250	2.0844	1.6889	-0.3955	1.6889	-0.3955	1.6889	-0.3955
P-251	1.9277	1.4273	-0.5004	1.4273	-0.5004	1.4273	-0.5004
P-252	1.9523	0.8236	-1.1287	0.8236	-1.1287	0.8236	-1.1287
P-253	2.2905	1.0055	-1.2850	1.0055	-1.2850	1.0055	-1.2850
P-254	2.3365	1.1107	-1.2258	1.1107	-1.2258	1.1107	-1.2258
P-255	2.2924	1.1639	-1.1286	1.1639	-1.1286	1.1639	-1.1286
P-256	1.9259	1.2547	-0.6712	1.2547	-0.6712	1.2547	-0.6712
P-257	1.5545	1.3794	-0.1752	1.3794	-0.1752	1.3794	-0.1752
P-258	1.5419	1.3597	-0.1823	1.3597	-0.1823	1.3597	-0.1823
P-259	1.5168	1.2327	-0.2842	1.2327	-0.2842	1.2327	-0.2842
P-260	1.7305	1.6154	-0.1151	1.6154	-0.1151	1.6154	-0.1151
P-261	2.0683	1.9102	-0.1581	1.9102	-0.1581	1.9102	-0.1581
P-262	2.1929	1.9558	-0.2371	1.9558	-0.2371	1.9558	-0.2371
P-263	2.3002	2.1046	-0.1956	2.1046	-0.1956	2.1046	-0.1956
P-264	3.1297	2.4054	-0.7244	2.4054	-0.7244	2.4054	-0.7244
P-265	2.4253	2.2472	-0.1781	2.2472	-0.1781	2.2472	-0.1781
P-266	3.1250	2.7324	-0.3926	2.7324	-0.3926	2.7324	-0.3926
P-267	2.8006	2.5261	-0.2745	2.5261	-0.2745	2.5261	-0.2745
P-268	3.2857	2.9782	-0.3075	2.9782	-0.3075	2.9782	-0.3075
P-269	3.5370	3.2489	-0.2881	3.2489	-0.2881	3.2489	-0.2881
P-270	2.9610	3.2181	0.2571	3.2181	0.2571	3.2181	0.2571
P-271	2.9147	2.7716	-0.1431	2.7716	-0.1431	2.7716	-0.1431
P-272	2.9380	2.4168	-0.5212	2.4168	-0.5212	2.4168	-0.5212
P-273	3.0606	2.2012	-0.8594	2.2012	-0.8594	2.2012	-0.8594
P-274	3.9566	3.0542	-0.9024	3.0542	-0.9024	3.0542	-0.9024
P-275	3.8152	2.7681	-1.0471	2.7681	-1.0471	2.7681	-1.0471
P-276	3.3014	2.3948	-0.9065	2.3948	-0.9065	2.3948	-0.9065
P-277	3.4124	2.3179	-1.0945	2.3179	-1.0945	2.3179	-1.0945
P-278	3.0798	2.1365	-0.9434	2.1365	-0.9434	2.1365	-0.9434
P-279	3.0372	2.0157	-1.0215	2.0157	-1.0215	2.0157	-1.0215
P-280	3.2623	2.1522	-1.1102	2.1522	-1.1102	2.1522	-1.1102
P-281	---	2.6704	---	2.6704	---	---	---
P-282	---	2.9464	---	2.9464	---	---	---
P-283	---	2.7003	---	2.7003	---	---	---
P-284	---	2.8650	---	2.8650	---	---	---
P-285	---	2.6272	---	2.6272	---	---	---
P-286	3.0298	1.8853	-1.1445	1.8853	-1.1445	1.8853	-1.1445
P-287	3.0003	1.8443	-1.1560	1.8443	-1.1560	1.8443	-1.1560
P-288	---	2.6052	---	2.6052	---	---	---
P-289	---	2.5943	---	2.5943	---	---	---
P-290	2.8867	1.8059	-1.0809	1.8059	-1.0809	1.8059	-1.0809
P-291	2.7395	1.7475	-0.9920	1.7475	-0.9920	1.7475	-0.9920
P-292	---	2.5922	---	2.5922	---	---	---
P-293	---	2.5818	---	2.5818	---	---	---
P-294	2.6077	1.6940	-0.9137	1.6940	-0.9137	1.6940	-0.9137
P-295	2.4013	1.5881	-0.8133	1.5881	-0.8133	1.5881	-0.8133
P-296	---	---	---	2.2248	---	---	---
P-297	---	2.5863	---	2.5863	---	---	---
P-298	---	2.6087	---	2.6087	---	---	---
P-299	2.2383	1.6019	-0.6364	1.6019	-0.6364	1.6019	-0.6364
P-300	1.7534	1.7509	-0.0026	1.7509	-0.0026	1.7509	-0.0026
P-302	2.1607	1.7818	-0.3790	1.7818	-0.3790	1.7818	-0.3790
P-303	---	2.7200	---	2.7200	---	---	---
P-304	---	3.1598	---	3.1598	---	---	---
P-305	---	2.5612	---	2.5612	---	---	---
P-306	---	1.8859	---	1.8859	---	---	---
P-307	---	2.1680	---	2.1680	---	---	---
P-308	3.3359	2.8228	-0.5131	2.8228	-0.5131	2.8228	-0.5131
P-309	3.1018	1.8121	-1.2897	1.8121	-1.2897	1.8121	-1.2897
P-310	1.3663	1.1924	-0.1739	1.1924	-0.1739	1.1924	-0.1739
P-311	1.4698	1.2597	-0.2100	1.2597	-0.2100	1.2597	-0.2100

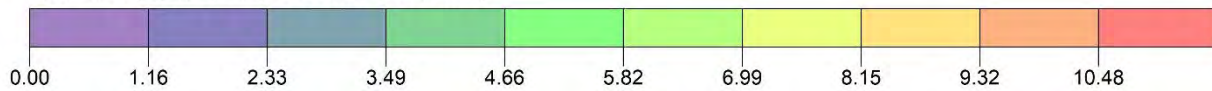
Attachment 3.4
2050 PM_{2.5} 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-312	1.6360	1.1737	-0.4623	1.1737	-0.4623	1.1737	-0.4623
P-313	1.7726	1.1279	-0.6447	1.1279	-0.6447	1.1279	-0.6447
P-314	2.0591	1.3995	-0.6596	1.3995	-0.6596	1.3995	-0.6596
P-315	2.1851	1.8239	-0.3611	1.8239	-0.3611	1.8239	-0.3611
P-316	1.4807	1.1905	-0.2902	1.1905	-0.2902	1.1905	-0.2902
P-317	1.7691	1.4992	-0.2699	1.4992	-0.2699	1.4992	-0.2699
P-318	3.1545	2.8844	-0.2701	2.8844	-0.2701	2.8844	-0.2701
P-322	2.9064	2.9488	0.0424	2.9488	0.0424	2.9488	0.0424
P-323	2.9745	1.8769	-1.0975	1.8769	-1.0975	1.8769	-1.0975
P-324	2.2092	1.5732	-0.6359	1.5732	-0.6359	1.5732	-0.6359
P-325	1.7496	1.5649	-0.1847	1.5649	-0.1847	1.5649	-0.1847
P-326	1.5357	1.3764	-0.1593	1.3764	-0.1593	1.3764	-0.1593
P-327	1.3776	1.0284	-0.3492	1.0284	-0.3492	1.0284	-0.3492
P-328	1.4938	1.3346	-0.1592	1.3346	-0.1592	1.3346	-0.1592
P-329	1.5076	1.3410	-0.1667	1.3410	-0.1667	1.3410	-0.1667
P-330	1.5161	1.3147	-0.2014	1.3147	-0.2014	1.3147	-0.2014
P-331	1.0750	0.6992	-0.3758	0.6992	-0.3758	0.6992	-0.3758
P-332	0.8122	0.6633	-0.1488	0.6633	-0.1488	0.6633	-0.1488
P-333	0.9833	0.8586	-0.1247	0.8586	-0.1247	0.8586	-0.1247
P-334	0.9788	1.2553	0.2766	1.2553	0.2766	1.2553	0.2766
P-335	0.9645	0.9738	0.0093	0.9738	0.0093	0.9738	0.0093
P-336	0.9809	0.8287	-0.1522	0.8287	-0.1522	0.8287	-0.1522
P-337	0.9608	0.7887	-0.1722	0.7887	-0.1722	0.7887	-0.1722
P-338	0.9545	0.7603	-0.1942	0.7603	-0.1942	0.7603	-0.1942
P-339	0.9601	0.7408	-0.2192	0.7408	-0.2192	0.7408	-0.2192
P-340	0.9732	0.7135	-0.2596	0.7135	-0.2596	0.7135	-0.2596
P-341	0.8537	0.8698	0.0161	0.8698	0.0161	0.8698	0.0161
P-342	0.8762	1.2646	0.3883	1.2646	0.3883	1.2646	0.3883
P-343	0.7837	0.7814	-0.0023	0.7814	-0.0023	0.7814	-0.0023
P-344	0.8360	1.1210	0.2850	1.1210	0.2850	1.1210	0.2850
P-345	0.7471	0.8135	0.0664	0.8135	0.0664	0.8135	0.0664
P-346	1.0199	1.2889	0.2690	1.2889	0.2690	1.2889	0.2690
P-347	0.7323	0.8323	0.1000	0.8323	0.1000	0.8323	0.1000
P-348	0.7691	0.6626	-0.1065	0.6626	-0.1065	0.6626	-0.1065
P-349	0.7952	0.6451	-0.1501	0.6451	-0.1501	0.6451	-0.1501
P-350	0.8614	0.6527	-0.2086	0.6527	-0.2086	0.6527	-0.2086
P-351	1.0514	0.7942	-0.2572	0.7942	-0.2572	0.7942	-0.2572
P-352	1.0026	0.7994	-0.2032	0.7994	-0.2032	0.7994	-0.2032
P-353	0.9532	0.8089	-0.1443	0.8089	-0.1443	0.8089	-0.1443
P-354	1.3181	1.2238	-0.0943	1.2238	-0.0943	1.2238	-0.0943
P-355	1.7039	1.4658	-0.2381	1.4658	-0.2381	1.4658	-0.2381
P-356	1.8691	1.5814	-0.2876	1.5814	-0.2876	1.5814	-0.2876
P-357	1.2420	1.1112	-0.1308	1.1112	-0.1308	1.1112	-0.1308
P-358	0.8464	0.7895	-0.0569	0.7895	-0.0569	0.7895	-0.0569
P-359	0.8266	0.7436	-0.0831	0.7436	-0.0831	0.7436	-0.0831
P-360	0.7785	0.7838	0.0054	0.7838	0.0054	0.7838	0.0054
P-361	0.9879	1.0152	0.0273	1.0152	0.0273	1.0152	0.0273
P-362	0.9500	1.1622	0.2122	1.1622	0.2122	1.1622	0.2122
P-363	1.0584	1.0021	-0.0563	1.0021	-0.0563	1.0021	-0.0563
P-364	1.2514	1.1342	-0.1172	1.1342	-0.1172	1.1342	-0.1172
P-365	1.3575	1.2636	-0.0939	1.2636	-0.0939	1.2636	-0.0939
P-366	1.4525	1.3232	-0.1293	1.3232	-0.1293	1.3232	-0.1293
P-367	1.5946	1.4163	-0.1784	1.4163	-0.1784	1.4163	-0.1784
P-368	1.4775	1.4877	0.0102	1.4877	0.0102	1.4877	0.0102
P-369	1.4590	1.5289	0.0699	1.5289	0.0699	1.5289	0.0699
P-370	1.8022	1.6701	-0.1320	1.6701	-0.1320	1.6701	-0.1320
P-371	1.1656	1.0842	-0.0814	1.0842	-0.0814	1.0842	-0.0814
P-372	1.1530	0.9420	-0.2111	0.9420	-0.2111	0.9420	-0.2111
P-373	1.0143	0.8407	-0.1736	0.8407	-0.1736	0.8407	-0.1736
P-374	0.9560	0.8397	-0.1163	0.8397	-0.1163	0.8397	-0.1163
P-375	0.9264	0.8176	-0.1088	0.8176	-0.1088	0.8176	-0.1088
P-376	1.1651	1.0615	-0.1036	1.0615	-0.1036	1.0615	-0.1036
P-377	1.0593	0.9472	-0.1121	0.9472	-0.1121	0.9472	-0.1121
P-378	4.0407	2.2910	-1.7497	2.2910	-1.7497	2.2910	-1.7497

Attachment 3.5: 2030 No Build Alternative PM_{2.5} 24-Hour Average Concentrations

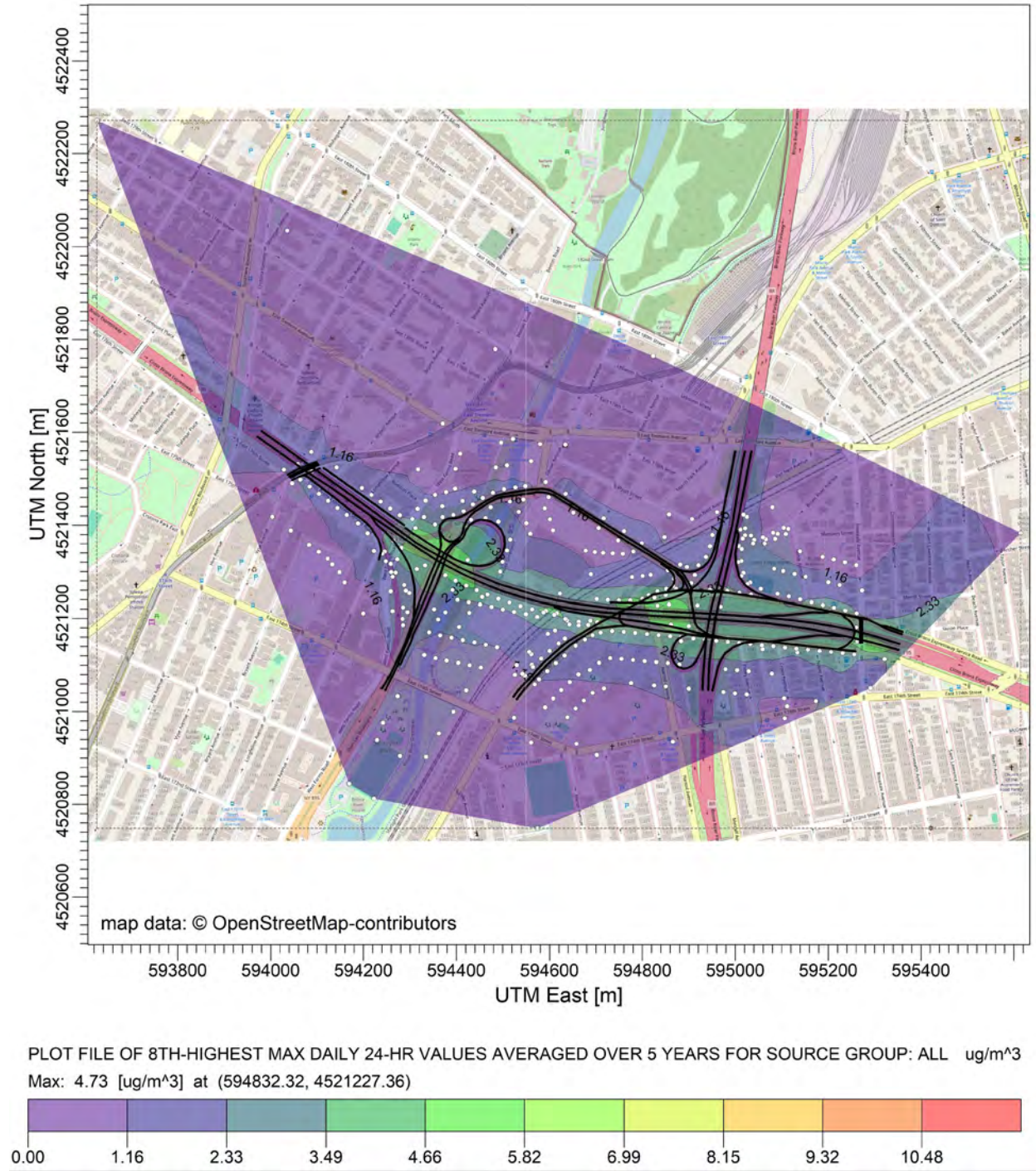


PLOT FILE OF 8TH-HIGHEST MAX DAILY 24-HR VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ug/m³
 Max: 7.92 [ug/m³] at (594934.06, 4521154.70)



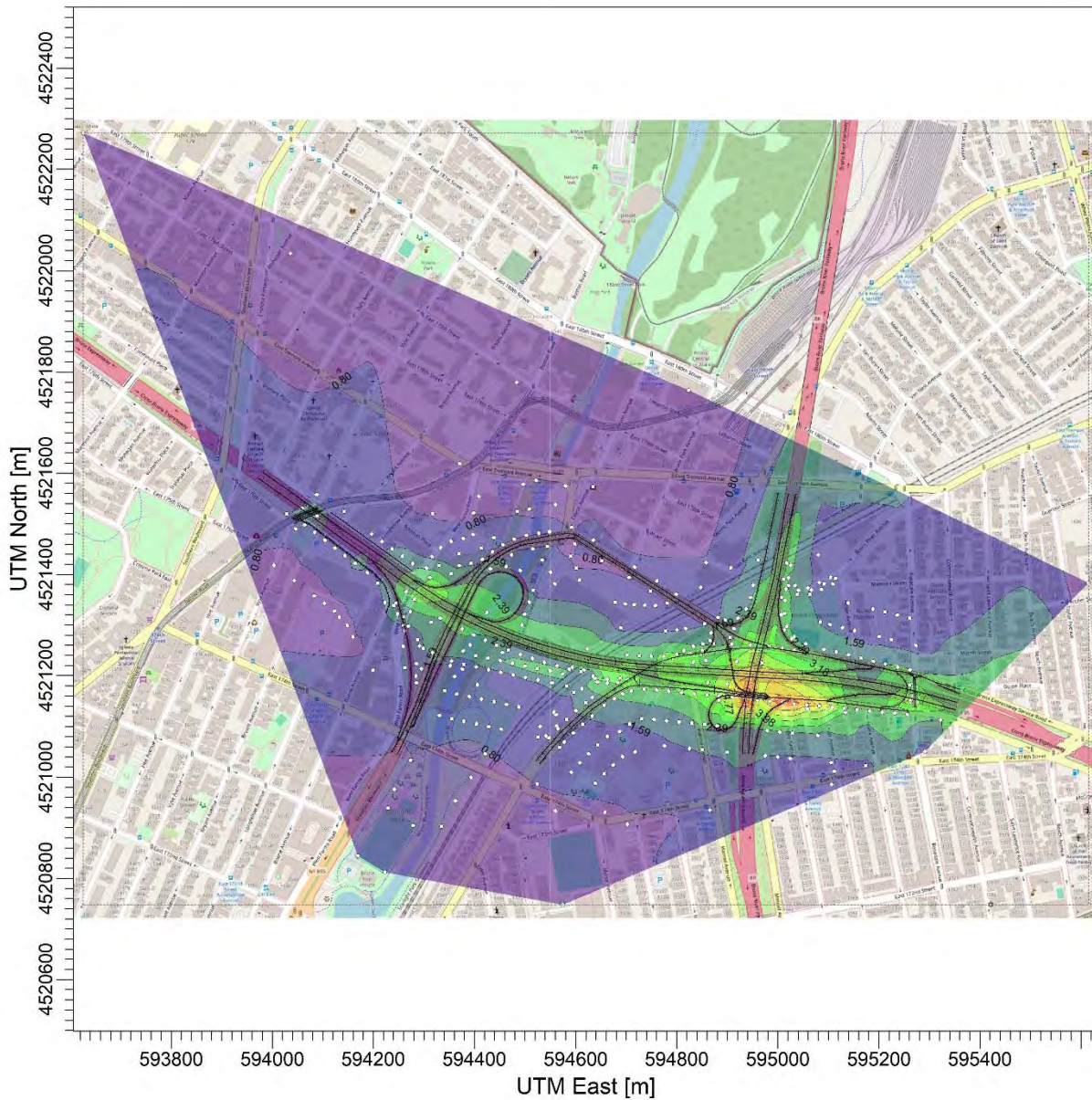
Note: The PM_{2.5} concentrations shown are the 8th highest maximum daily 24-hour concentration averaged over the five-year analysis period. The 8th highest concentration is the 98th percentile value, which is used to evaluate compliance with the 24-hour PM_{2.5} NAAQS according to the USEPA.

Attachment 3.6: 2030 Alternatives A, B, and C PM_{2.5} 24-Hour Average Concentrations



Note: The PM_{2.5} concentrations shown are the 8th highest maximum daily 24-hour concentration averaged over the five-year analysis period. The 8th highest concentration is the 98th percentile value, which is used to evaluate compliance with the 24-hour PM_{2.5} NAAQS according to the USEPA.

Attachment 3.7 2050 No Build Alternative PM_{2.5} 24-Hour Average Concentrations

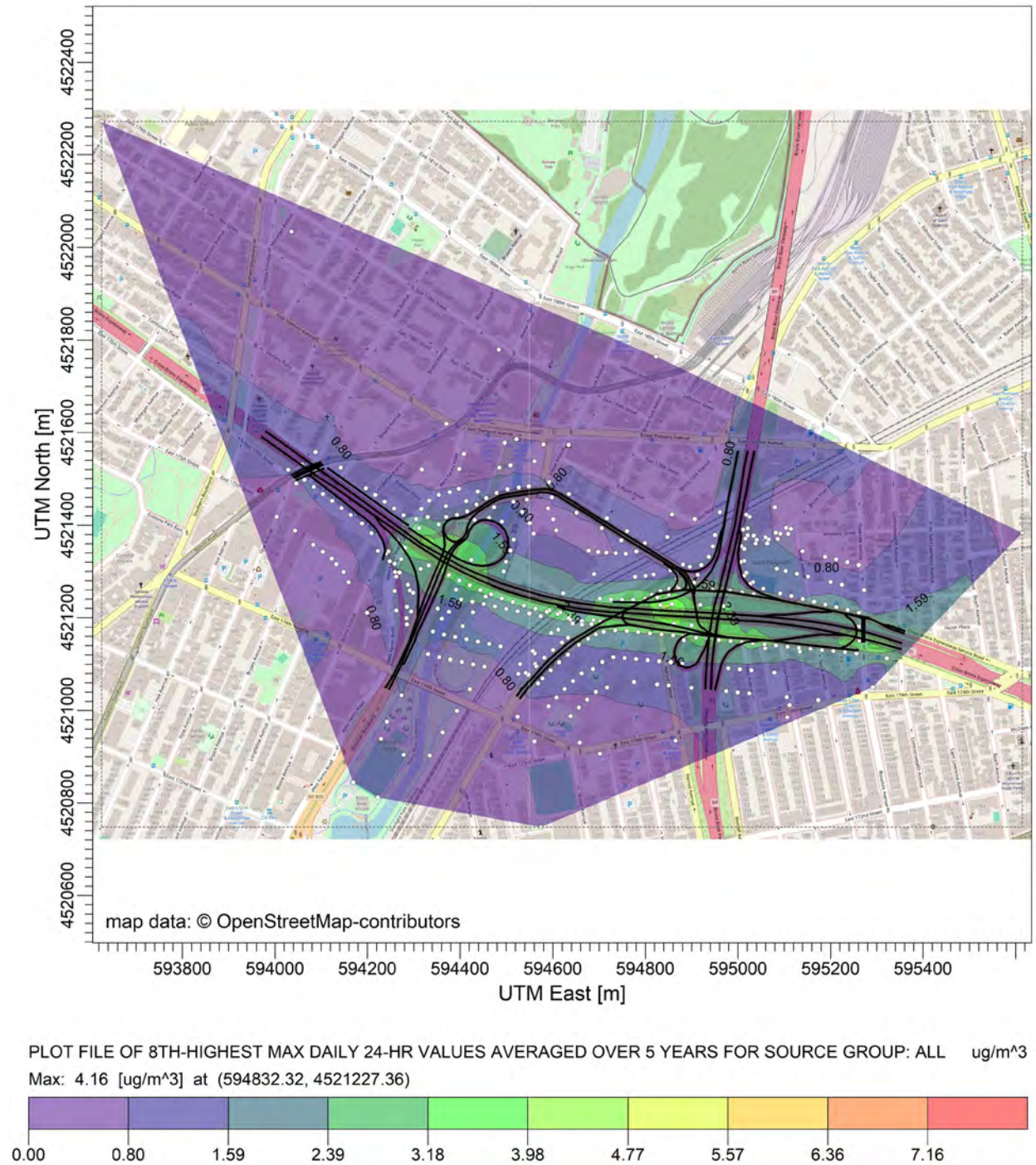


PLOT FILE OF 8TH-HIGHEST MAX DAILY 24-HR VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ug/m³
 Max: 7.16 [ug/m³] at (594934.06, 4521154.70)



Note: The PM_{2.5} concentrations shown are the 8th highest maximum daily 24-hour concentration averaged over the five-year analysis period. The 8th highest concentration is the 98th percentile value, which is used to evaluate compliance with the 24-hour PM_{2.5} NAAQS according to the USEPA.

Attachment 3.8: 2050 Alternatives A, B, and C PM_{2.5} 24-Hour Average Concentrations

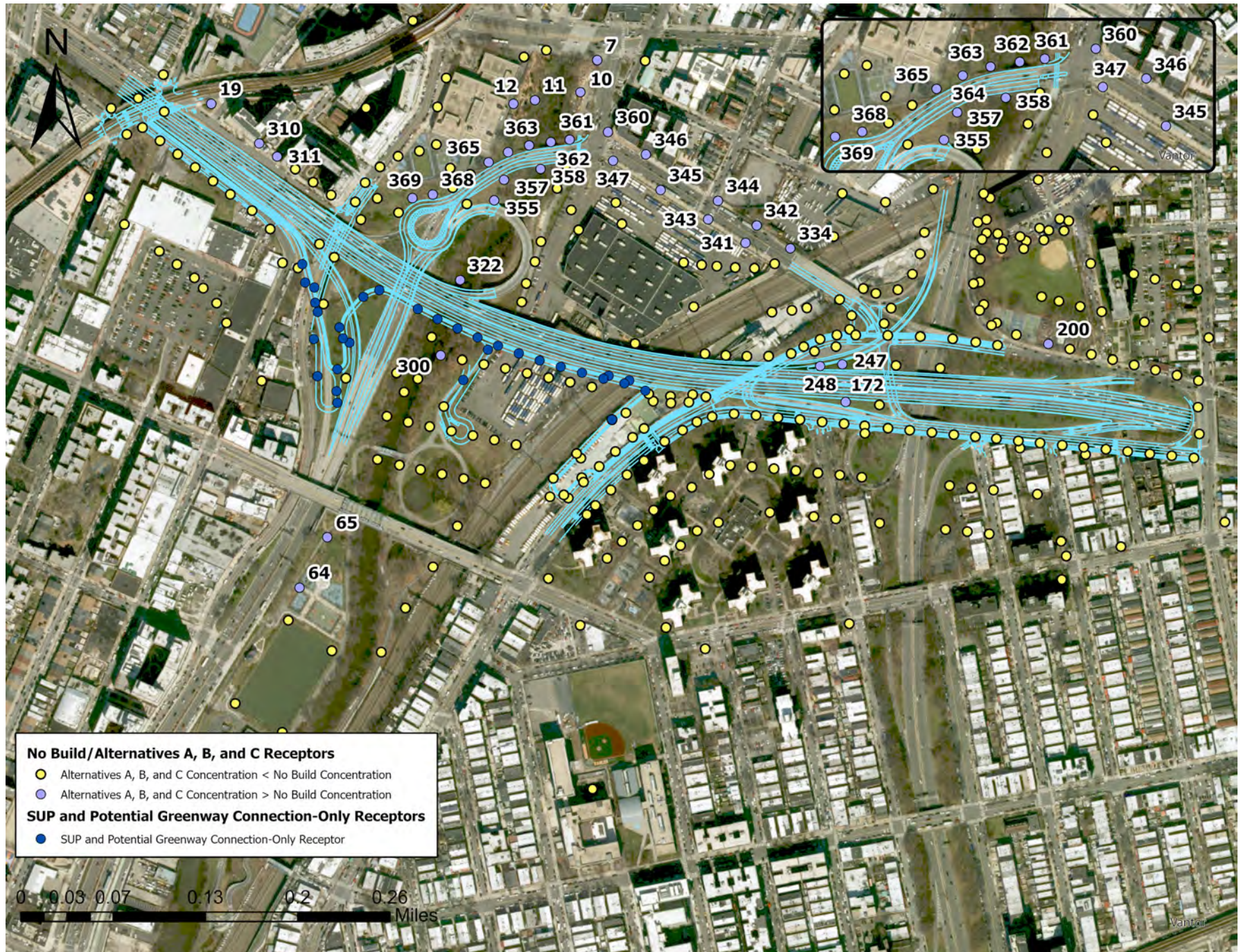


Note: The PM_{2.5} concentrations shown are the 8th highest maximum daily 24-hour concentration averaged over the five-year analysis period. The 8th highest concentration is the 98th percentile value, which is used to evaluate compliance with the 24-hour PM_{2.5} NAAQS according to the USEPA.

Air Quality Appendix Attachment 4
PM₁₀ 24-Hour Average Concentrations Microscale Results

Attachment 4.1

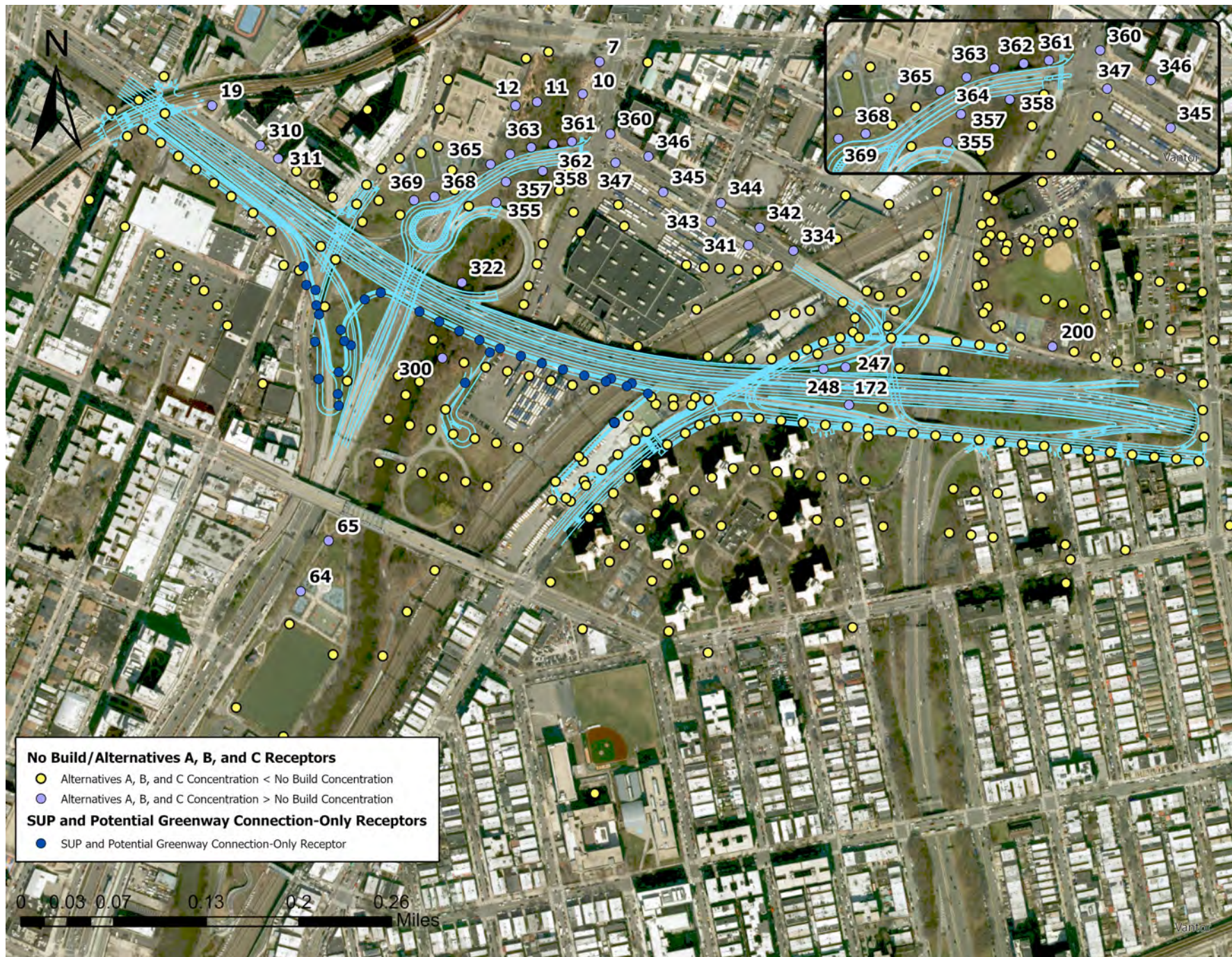
2030 PM-10 24 Hour Average Concentrations Alternatives A, B, and C versus No Build Alternative



Note: SUP and Potential Greenway Connection-Only receptors are located along the SUP and Potential Greenway Connection, with no corresponding No Build Alternative receptor.

Attachment 4.2

2050 PM-10 24 Hour Average Concentrations Alternatives A, B, and C versus No Build Alternative



Note: SUP and Potential Greenway Connection-Only receptors are located along the SUP and Potential Greenway Connection, with no corresponding No Build Alternative receptor.

Attachment 4.3
2030 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-001	1.4199	1.1494	-0.2705	1.1494	-0.2705	1.1494	-0.2705
P-002	2.7803	2.2562	-0.5241	2.2562	-0.5241	2.2562	-0.5241
P-003	4.8852	4.4084	-0.4768	4.4084	-0.4768	4.4084	-0.4768
P-004	5.3190	4.3348	-0.9842	4.3348	-0.9842	4.3348	-0.9842
P-005	7.2733	6.4582	-0.8151	6.4582	-0.8151	6.4582	-0.8151
P-006	7.7548	7.3328	-0.4220	7.3328	-0.4220	7.3328	-0.4220
P-007	7.7993	7.7763	-0.0230	7.7763	-0.0230	7.7763	-0.0230
P-008	7.6498	7.3692	-0.2806	7.3692	-0.2806	7.3692	-0.2806
P-009	8.2200	7.6932	-0.5268	7.6932	-0.5268	7.6932	-0.5268
P-010	9.4400	9.8505	0.4105	9.8505	0.4105	9.8505	0.4105
P-011	9.9285	10.2417	0.3132	10.2417	0.3132	10.2417	0.3132
P-012	10.6853	10.7556	0.0703	10.7556	0.0703	10.7556	0.0703
P-013	10.4064	9.3553	-1.0511	9.3553	-1.0511	9.3553	-1.0511
P-014	9.2028	8.2321	-0.9707	8.2321	-0.9707	8.2321	-0.9707
P-015	10.6623	9.4592	-1.2031	9.4592	-1.2031	9.4592	-1.2031
P-016	17.1514	13.5199	-3.6315	13.5199	-3.6315	13.5199	-3.6315
P-017	31.7448	20.1094	-11.6354	20.1094	-11.6354	20.1094	-11.6354
P-018	15.0435	13.9120	-1.1315	13.9120	-1.1315	13.9120	-1.1315
P-019	14.1723	14.6778	0.5055	14.6778	0.5055	14.6778	0.5055
P-020	28.7204	22.6845	-6.0359	22.6845	-6.0359	22.6845	-6.0359
P-021	14.6923	12.2268	-2.4655	12.2268	-2.4655	12.2268	-2.4655
P-022	18.7216	14.8048	-3.9168	14.8048	-3.9168	14.8048	-3.9168
P-023	18.0251	15.0120	-3.0131	15.0120	-3.0131	15.0120	-3.0131
P-024	18.2364	15.5196	-2.7168	15.5196	-2.7168	15.5196	-2.7168
P-025	18.2470	16.4841	-1.7629	16.4841	-1.7629	16.4841	-1.7629
P-026	19.9309	18.2784	-1.6525	18.2784	-1.6525	18.2784	-1.6525
P-027	24.6242	21.8907	-2.7335	21.8907	-2.7335	21.8907	-2.7335
P-028	21.0823	21.5544	0.4721	21.5544	0.4721	21.5544	0.4721
P-029	21.9189	20.3185	-1.6004	20.3185	-1.6004	20.3185	-1.6004
P-030	22.7872	18.5426	-4.2446	18.5426	-4.2446	18.5426	-4.2446
P-031	---	25.3877	---	25.3877	---	---	---
P-032	26.0574	23.4844	-2.5730	23.4844	-2.5730	23.4844	-2.5730
P-033	---	23.5835	---	23.5835	---	---	---
P-034	---	24.5739	---	24.5739	---	---	---
P-035	30.8892	25.5907	-5.2985	25.5907	-5.2985	25.5907	-5.2985
P-036	---	21.8942	---	21.8942	---	---	---
P-037	22.5848	21.8392	-0.7456	21.8392	-0.7456	21.8392	-0.7456
P-038	---	20.1949	---	20.1949	---	---	---
P-039	---	19.3871	---	19.3871	---	---	---
P-041	---	20.0255	---	20.0255	---	---	---
P-042	---	19.1698	---	19.1698	---	---	---
P-043	---	15.4636	---	15.4636	---	---	---
P-044	---	17.7872	---	17.7872	---	---	---
P-045	22.6765	21.3752	-1.3013	21.3752	-1.3013	21.3752	-1.3013
P-046	---	17.9933	---	17.9933	---	---	---
P-047	---	15.7632	---	15.7632	---	---	---
P-048	---	18.9158	---	18.9158	---	---	---
P-049	7.2038	6.8140	-0.3898	6.8140	-0.3898	6.8140	-0.3898
P-050	7.3680	6.5672	-0.8008	6.5672	-0.8008	6.5672	-0.8008
P-051	7.7565	6.8981	-0.8584	6.8981	-0.8584	6.8981	-0.8584
P-052	8.0888	7.3390	-0.7498	7.3390	-0.7498	7.3390	-0.7498
P-053	8.5534	7.8436	-0.7098	7.8436	-0.7098	7.8436	-0.7098
P-054	9.0429	8.2055	-0.8374	8.2055	-0.8374	8.2055	-0.8374
P-055	9.4494	8.7457	-0.7037	8.7457	-0.7037	8.7457	-0.7037
P-056	10.9180	10.1299	-0.7881	10.1299	-0.7881	10.1299	-0.7881
P-057	13.4040	11.5400	-1.8640	11.5400	-1.8640	11.5400	-1.8640
P-058	6.3662	5.2031	-1.1631	5.2031	-1.1631	5.2031	-1.1631
P-059	6.2408	4.9616	-1.2792	4.9616	-1.2792	4.9616	-1.2792
P-060	6.2112	5.0877	-1.1235	5.0877	-1.1235	5.0877	-1.1235
P-061	8.2347	6.5432	-1.6915	6.5432	-1.6915	6.5432	-1.6915
P-062	7.8971	6.6300	-1.2671	6.6300	-1.2671	6.6300	-1.2671
P-063	7.9763	7.1590	-0.8173	7.1590	-0.8173	7.1590	-0.8173
P-064	9.1626	8.9574	-0.2052	8.9574	-0.2052	8.9574	-0.2052
P-065	11.1049	13.3133	2.2084	13.3133	2.2084	13.3133	2.2084
P-066	9.7983	7.4977	-2.3006	7.4977	-2.3006	7.4977	-2.3006
P-067	11.1235	8.4045	-2.7190	8.4045	-2.7190	8.4045	-2.7190
P-068	12.2771	9.3798	-2.8973	9.3798	-2.8973	9.3798	-2.8973
P-069	14.3442	10.4114	-3.9328	10.4114	-3.9328	10.4114	-3.9328
P-070	13.8144	9.9496	-3.8648	9.9496	-3.8648	9.9496	-3.8648
P-071	13.3267	9.5696	-3.7571	9.5696	-3.7571	9.5696	-3.7571
P-072	12.8876	9.5645	-3.3231	9.5645	-3.3231	9.5645	-3.3231
P-073	12.6782	10.3185	-2.3597	10.3185	-2.3597	10.3185	-2.3597
P-074	11.9259	10.7164	-1.2095	10.7164	-1.2095	10.7164	-1.2095
P-075	15.1931	13.3841	-1.8090	13.3841	-1.8090	13.3841	-1.8090

Attachment 4.3
2030 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-076	14.5725	12.0236	-2.5489	12.0236	-2.5489	12.0236	-2.5489
P-077	15.3124	11.5831	-3.7293	11.5831	-3.7293	11.5831	-3.7293
P-078	16.4411	12.4433	-3.9978	12.4433	-3.9978	12.4433	-3.9978
P-079	16.9775	12.7314	-4.2461	12.7314	-4.2461	12.7314	-4.2461
P-080	17.6138	12.1886	-5.4252	12.1886	-5.4252	12.1886	-5.4252
P-081	18.0275	12.7499	-5.2776	12.7499	-5.2776	12.7499	-5.2776
P-082	18.8225	13.9694	-4.8531	13.9694	-4.8531	13.9694	-4.8531
P-083	16.5763	13.3741	-3.2022	13.3741	-3.2022	13.3741	-3.2022
P-084	18.6249	14.8664	-3.7585	14.8664	-3.7585	14.8664	-3.7585
P-085	21.5133	17.3507	-4.1626	17.3507	-4.1626	17.3507	-4.1626
P-089	---	---	---	20.1852	---	---	---
P-096	---	23.3175	---	23.3175	---	---	---
P-097	30.1868	25.5788	-4.6080	25.5788	-4.6080	25.5788	-4.6080
P-098	30.7474	23.7522	-6.9952	23.7522	-6.9952	23.7522	-6.9952
P-099	28.3570	21.8539	-6.5031	21.8539	-6.5031	21.8539	-6.5031
P-100	25.2186	20.2519	-4.9667	20.2519	-4.9667	20.2519	-4.9667
P-101	23.2341	18.7158	-4.5183	18.7158	-4.5183	18.7158	-4.5183
P-102	20.6816	16.1775	-4.5041	16.1775	-4.5041	16.1775	-4.5041
P-103	---	17.0404	---	17.0404	---	---	---
P-104	---	14.4232	---	14.4232	---	---	---
P-105	---	16.9952	---	16.9952	---	---	---
P-106	22.0284	17.5417	-4.4867	17.5417	-4.4867	17.5417	-4.4867
P-107	20.6878	16.3221	-4.3657	16.3221	-4.3657	16.3221	-4.3657
P-108	---	15.5632	---	15.5632	---	---	---
P-109	17.9539	14.0052	-3.9487	14.0052	-3.9487	14.0052	-3.9487
P-110	11.9738	9.5249	-2.4489	9.5249	-2.4489	9.5249	-2.4489
P-111	10.3577	7.8472	-2.5105	7.8472	-2.5105	7.8472	-2.5105
P-112	12.6565	9.5573	-3.0992	9.5573	-3.0992	9.5573	-3.0992
P-113	10.0669	7.4575	-2.6094	7.4575	-2.6094	7.4575	-2.6094
P-114	10.6494	8.2211	-2.4283	8.2211	-2.4283	8.2211	-2.4283
P-115	16.0715	12.0481	-4.0234	12.0481	-4.0234	12.0481	-4.0234
P-116	18.7894	13.4563	-5.3331	13.4563	-5.3331	13.4563	-5.3331
P-117	20.7613	14.6071	-6.1542	14.6071	-6.1542	14.6071	-6.1542
P-118	19.4762	13.3978	-6.0784	13.3978	-6.0784	13.3978	-6.0784
P-119	18.5422	14.7985	-3.7437	14.7985	-3.7437	14.7985	-3.7437
P-120	29.5458	18.1948	-11.3510	18.1948	-11.3510	18.1948	-11.3510
P-121	29.5812	20.1471	-9.4341	20.1471	-9.4341	20.1471	-9.4341
P-122	29.4822	21.7708	-7.7114	21.7708	-7.7114	21.7708	-7.7114
P-123	30.0722	23.7701	-6.3021	23.7701	-6.3021	23.7701	-6.3021
P-124	20.9757	16.3922	-4.5835	16.3922	-4.5835	16.3922	-4.5835
P-125	20.9641	17.2082	-3.7559	17.2082	-3.7559	17.2082	-3.7559
P-126	22.3176	18.5865	-3.7311	18.5865	-3.7311	18.5865	-3.7311
P-127	23.5091	18.1859	-5.3232	18.1859	-5.3232	18.1859	-5.3232
P-128	23.4580	16.9165	-6.5415	16.9165	-6.5415	16.9165	-6.5415
P-129	22.0300	16.1441	-5.8859	16.1441	-5.8859	16.1441	-5.8859
P-130	19.4708	14.5194	-4.9514	14.5194	-4.9514	14.5194	-4.9514
P-131	17.3146	12.9763	-4.3383	12.9763	-4.3383	12.9763	-4.3383
P-132	16.2284	12.6849	-3.5435	12.6849	-3.5435	12.6849	-3.5435
P-133	14.9476	11.6678	-3.2798	11.6678	-3.2798	11.6678	-3.2798
P-134	13.9619	10.7259	-3.2360	10.7259	-3.2360	10.7259	-3.2360
P-135	13.0585	9.8773	-3.1812	9.8773	-3.1812	9.8773	-3.1812
P-136	13.8507	10.6183	-3.2324	10.6183	-3.2324	10.6183	-3.2324
P-137	14.9970	11.3684	-3.6286	11.3684	-3.6286	11.3684	-3.6286
P-138	16.0803	12.3535	-3.7268	12.3535	-3.7268	12.3535	-3.7268
P-139	17.5337	13.7882	-3.7455	13.7882	-3.7455	13.7882	-3.7455
P-140	19.3214	15.0913	-4.2301	15.0913	-4.2301	15.0913	-4.2301
P-141	20.6789	15.7711	-4.9078	15.7711	-4.9078	15.7711	-4.9078
P-142	22.7603	17.1496	-5.6107	17.1496	-5.6107	17.1496	-5.6107
P-143	24.3830	18.2317	-6.1513	18.2317	-6.1513	18.2317	-6.1513
P-144	25.1785	18.5872	-6.5913	18.5872	-6.5913	18.5872	-6.5913
P-145	25.7354	18.5771	-7.1583	18.5771	-7.1583	18.5771	-7.1583
P-146	27.7314	19.5668	-8.1646	19.5668	-8.1646	19.5668	-8.1646
P-147	30.6734	21.9176	-8.7558	21.9176	-8.7558	21.9176	-8.7558
P-148	34.4999	24.5637	-9.9362	24.5637	-9.9362	24.5637	-9.9362
P-149	31.7080	25.2016	-6.5064	25.2016	-6.5064	25.2016	-6.5064
P-150	33.3932	26.5349	-6.8583	26.5349	-6.8583	26.5349	-6.8583
P-152	62.0153	44.2549	-17.7604	44.2549	-17.7604	44.2549	-17.7604
P-154	38.5208	31.2719	-7.2489	31.2719	-7.2489	31.2719	-7.2489
P-155	39.1212	33.8740	-5.2472	33.8740	-5.2472	33.8740	-5.2472
P-156	39.7902	32.9872	-6.8030	32.9872	-6.8030	32.9872	-6.8030
P-157	38.7735	32.2822	-6.4913	32.2822	-6.4913	32.2822	-6.4913
P-158	39.6048	32.6379	-6.9669	32.6379	-6.9669	32.6379	-6.9669
P-159	41.7379	29.4369	-12.3010	29.4369	-12.3010	29.4369	-12.3010
P-160	44.0470	33.4353	-10.6117	33.4353	-10.6117	33.4353	-10.6117

Attachment 4.3
2030 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-161	57.0997	38.0580	-19.0417	38.0580	-19.0417	38.0580	-19.0417
P-162	68.5595	41.3052	-27.2543	41.3052	-27.2543	41.3052	-27.2543
P-163	59.0313	33.5412	-25.4901	33.5412	-25.4901	33.5412	-25.4901
P-164	71.6663	39.4625	-32.2038	39.4625	-32.2038	39.4625	-32.2038
P-165	81.3123	40.8754	-40.4369	40.8754	-40.4369	40.8754	-40.4369
P-166	90.4199	38.7676	-51.6523	38.7676	-51.6523	38.7676	-51.6523
P-167	83.2091	38.9184	-44.2907	38.9184	-44.2907	38.9184	-44.2907
P-168	66.1042	38.2962	-27.8080	38.2962	-27.8080	38.2962	-27.8080
P-169	85.0424	43.1073	-41.9351	43.1073	-41.9351	43.1073	-41.9351
P-170	65.8920	39.2861	-26.6059	39.2861	-26.6059	39.2861	-26.6059
P-171	59.5669	40.0745	-19.4924	40.0745	-19.4924	40.0745	-19.4924
P-172	47.7197	48.0378	0.3181	48.0378	0.3181	48.0378	0.3181
P-173	51.9331	40.2676	-11.6655	40.2676	-11.6655	40.2676	-11.6655
P-174	48.3638	32.9544	-15.4094	32.9544	-15.4094	32.9544	-15.4094
P-175	46.4348	32.1311	-14.3037	32.1311	-14.3037	32.1311	-14.3037
P-176	44.7212	34.0612	-10.6600	34.0612	-10.6600	34.0612	-10.6600
P-177	43.6429	35.5042	-8.1387	35.5042	-8.1387	35.5042	-8.1387
P-178	43.8641	35.0781	-8.7860	35.0781	-8.7860	35.0781	-8.7860
P-179	43.5459	35.2032	-8.3427	35.2032	-8.3427	35.2032	-8.3427
P-180	41.1867	33.5844	-7.6023	33.5844	-7.6023	33.5844	-7.6023
P-181	38.7966	31.0392	-7.7574	31.0392	-7.7574	31.0392	-7.7574
P-182	34.5548	27.9435	-6.6113	27.9435	-6.6113	27.9435	-6.6113
P-183	30.2836	24.6392	-5.6444	24.6392	-5.6444	24.6392	-5.6444
P-184	26.1586	20.4128	-5.7458	20.4128	-5.7458	20.4128	-5.7458
P-185	23.0632	18.7001	-4.3631	18.7001	-4.3631	18.7001	-4.3631
P-186	20.6175	16.9296	-3.6879	16.9296	-3.6879	16.9296	-3.6879
P-187	19.0526	15.5878	-3.4648	15.5878	-3.4648	15.5878	-3.4648
P-188	18.3102	14.8777	-3.4325	14.8777	-3.4325	14.8777	-3.4325
P-189	5.8997	4.8171	-1.0826	4.8171	-1.0826	4.8171	-1.0826
P-191	46.4742	34.3086	-12.1656	34.3086	-12.1656	34.3086	-12.1656
P-193	35.6989	27.9499	-7.7490	27.9499	-7.7490	27.9499	-7.7490
P-194	34.9718	30.6214	-4.3504	30.6214	-4.3504	30.6214	-4.3504
P-195	32.4428	31.7629	-0.6799	31.7629	-0.6799	31.7629	-0.6799
P-196	33.2122	30.4840	-2.7282	30.4840	-2.7282	30.4840	-2.7282
P-197	35.0962	30.6047	-4.4915	30.6047	-4.4915	30.6047	-4.4915
P-198	34.6662	31.4728	-3.1934	31.4728	-3.1934	31.4728	-3.1934
P-199	33.8795	31.8373	-2.0422	31.8373	-2.0422	31.8373	-2.0422
P-200	33.2941	34.8335	1.5394	34.8335	1.5394	34.8335	1.5394
P-201	19.1197	15.7861	-3.3336	15.7861	-3.3336	15.7861	-3.3336
P-202	19.2438	16.3774	-2.8664	16.3774	-2.8664	16.3774	-2.8664
P-203	20.1031	16.8591	-3.2440	16.8591	-3.2440	16.8591	-3.2440
P-204	21.0561	16.9596	-4.0965	16.9596	-4.0965	16.9596	-4.0965
P-205	21.1641	17.1814	-3.9827	17.1814	-3.9827	17.1814	-3.9827
P-206	21.9925	17.2628	-4.7297	17.2628	-4.7297	17.2628	-4.7297
P-207	22.7454	16.8724	-5.8730	16.8724	-5.8730	16.8724	-5.8730
P-208	14.5648	11.8195	-2.7453	11.8195	-2.7453	11.8195	-2.7453
P-209	14.8333	11.7912	-3.0421	11.7912	-3.0421	11.7912	-3.0421
P-210	14.8864	11.8402	-3.0462	11.8402	-3.0462	11.8402	-3.0462
P-211	15.1735	12.1408	-3.0327	12.1408	-3.0327	12.1408	-3.0327
P-212	16.5388	12.4081	-4.1307	12.4081	-4.1307	12.4081	-4.1307
P-213	16.7703	12.0262	-4.7441	12.0262	-4.7441	12.0262	-4.7441
P-214	16.0610	11.5483	-4.5127	11.5483	-4.5127	11.5483	-4.5127
P-215	16.6319	11.9366	-4.6953	11.9366	-4.6953	11.9366	-4.6953
P-216	18.0186	12.8673	-5.1513	12.8673	-5.1513	12.8673	-5.1513
P-217	19.0207	13.5217	-5.4990	13.5217	-5.4990	13.5217	-5.4990
P-218	18.5954	13.2611	-5.3343	13.2611	-5.3343	13.2611	-5.3343
P-219	20.9045	14.7326	-6.1719	14.7326	-6.1719	14.7326	-6.1719
P-220	22.3096	15.6249	-6.6847	15.6249	-6.6847	15.6249	-6.6847
P-221	21.2365	15.0373	-6.1992	15.0373	-6.1992	15.0373	-6.1992
P-222	26.1156	18.0983	-8.0173	18.0983	-8.0173	18.0983	-8.0173
P-223	26.8226	18.2562	-8.5664	18.2562	-8.5664	18.2562	-8.5664
P-224	26.6270	19.2062	-7.4208	19.2062	-7.4208	19.2062	-7.4208
P-225	29.8003	21.7182	-8.0821	21.7182	-8.0821	21.7182	-8.0821
P-226	32.4089	22.9653	-9.4436	22.9653	-9.4436	22.9653	-9.4436
P-227	32.6274	25.6836	-6.9438	25.6836	-6.9438	25.6836	-6.9438
P-228	27.9849	21.5065	-6.4784	21.5065	-6.4784	21.5065	-6.4784
P-229	32.5685	20.1151	-12.4534	20.1151	-12.4534	20.1151	-12.4534
P-230	37.3324	22.5062	-14.8262	22.5062	-14.8262	22.5062	-14.8262
P-231	16.8923	12.3983	-4.4940	12.3983	-4.4940	12.3983	-4.4940
P-232	40.8343	27.0853	-13.7490	27.0853	-13.7490	27.0853	-13.7490
P-233	35.5396	23.8871	-11.6525	23.8871	-11.6525	23.8871	-11.6525
P-234	33.4653	22.5483	-10.9170	22.5483	-10.9170	22.5483	-10.9170
P-235	38.2424	25.7797	-12.4627	25.7797	-12.4627	25.7797	-12.4627
P-236	32.4326	22.1841	-10.2485	22.1841	-10.2485	22.1841	-10.2485

Attachment 4.3
2030 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-237	34.9880	24.3686	-10.6194	24.3686	-10.6194	24.3686	-10.6194
P-238	33.5497	23.9389	-9.6108	23.9389	-9.6108	23.9389	-9.6108
P-239	35.2779	24.9655	-10.3124	24.9655	-10.3124	24.9655	-10.3124
P-240	34.9370	27.0814	-7.8556	27.0814	-7.8556	27.0814	-7.8556
P-241	41.2866	28.4124	-12.8742	28.4124	-12.8742	28.4124	-12.8742
P-242	43.3937	28.3990	-14.9947	28.3990	-14.9947	28.3990	-14.9947
P-243	48.5480	31.3334	-17.2146	31.3334	-17.2146	31.3334	-17.2146
P-244	60.7834	39.8443	-20.9391	39.8443	-20.9391	39.8443	-20.9391
P-245	45.5950	27.9283	-17.6667	27.9283	-17.6667	27.9283	-17.6667
P-246	52.2698	32.5785	-19.6913	32.5785	-19.6913	32.5785	-19.6913
P-247	39.1659	52.2928	13.1269	52.2928	13.1269	52.2928	13.1269
P-248	45.5213	53.0993	7.5780	53.0993	7.5780	53.0993	7.5780
P-249	32.6702	29.9360	-2.7342	29.9360	-2.7342	29.9360	-2.7342
P-250	27.3882	25.8190	-1.5692	25.8190	-1.5692	25.8190	-1.5692
P-251	25.3311	21.2531	-4.0780	21.2531	-4.0780	21.2531	-4.0780
P-252	23.4488	14.1048	-9.3440	14.1048	-9.3440	14.1048	-9.3440
P-253	26.3573	16.8868	-9.4705	16.8868	-9.4705	16.8868	-9.4705
P-254	27.2599	17.4619	-9.7980	17.4619	-9.7980	17.4619	-9.7980
P-255	26.4274	17.9835	-8.4439	17.9835	-8.4439	17.9835	-8.4439
P-256	24.5488	18.6802	-5.8686	18.6802	-5.8686	18.6802	-5.8686
P-257	21.7470	20.4968	-1.2502	20.4968	-1.2502	20.4968	-1.2502
P-258	22.0882	20.7335	-1.3547	20.7335	-1.3547	20.7335	-1.3547
P-259	21.5026	17.6808	-3.8218	17.6808	-3.8218	17.6808	-3.8218
P-260	24.2081	23.4653	-0.7428	23.4653	-0.7428	23.4653	-0.7428
P-261	28.1262	27.6462	-0.4800	27.6462	-0.4800	27.6462	-0.4800
P-262	31.9036	29.1070	-2.7966	29.1070	-2.7966	29.1070	-2.7966
P-263	30.8500	28.4863	-2.3637	28.4863	-2.3637	28.4863	-2.3637
P-264	44.3249	31.5488	-12.7761	31.5488	-12.7761	31.5488	-12.7761
P-265	32.9244	30.1149	-2.8095	30.1149	-2.8095	30.1149	-2.8095
P-266	44.9334	35.4426	-9.4908	35.4426	-9.4908	35.4426	-9.4908
P-267	37.6922	32.3598	-5.3324	32.3598	-5.3324	32.3598	-5.3324
P-268	46.1710	37.9975	-8.1735	37.9975	-8.1735	37.9975	-8.1735
P-269	47.7474	40.9084	-6.8390	40.9084	-6.8390	40.9084	-6.8390
P-270	39.9546	39.9352	-0.0194	39.9352	-0.0194	39.9352	-0.0194
P-271	40.2700	33.6204	-6.6496	33.6204	-6.6496	33.6204	-6.6496
P-272	41.4504	31.3220	-10.1284	31.3220	-10.1284	31.3220	-10.1284
P-273	41.5902	30.5655	-11.0247	30.5655	-11.0247	30.5655	-11.0247
P-274	59.1337	41.9630	-17.1707	41.9630	-17.1707	41.9630	-17.1707
P-275	54.5293	39.3322	-15.1971	39.3322	-15.1971	39.3322	-15.1971
P-276	49.2558	34.3375	-14.9183	34.3375	-14.9183	34.3375	-14.9183
P-277	49.3408	34.3655	-14.9753	34.3655	-14.9753	34.3655	-14.9753
P-278	43.9728	31.6424	-12.3304	31.6424	-12.3304	31.6424	-12.3304
P-279	42.3846	30.5635	-11.8211	30.5635	-11.8211	30.5635	-11.8211
P-280	46.7409	31.9035	-14.8374	31.9035	-14.8374	31.9035	-14.8374
P-281	---	39.1743	---	39.1743	---	---	---
P-282	---	43.4029	---	43.4029	---	---	---
P-283	---	39.8530	---	39.8530	---	---	---
P-284	---	42.3363	---	42.3363	---	---	---
P-285	---	38.7113	---	38.7113	---	---	---
P-286	41.0320	27.1282	-13.9038	27.1282	-13.9038	27.1282	-13.9038
P-287	39.7473	26.0558	-13.6915	26.0558	-13.6915	26.0558	-13.6915
P-288	---	38.2336	---	38.2336	---	---	---
P-289	---	37.2960	---	37.2960	---	---	---
P-290	37.6426	25.2670	-12.3756	25.2670	-12.3756	25.2670	-12.3756
P-291	35.5456	24.4657	-11.0799	24.4657	-11.0799	24.4657	-11.0799
P-292	---	37.7095	---	37.7095	---	---	---
P-293	---	36.9473	---	36.9473	---	---	---
P-294	33.8469	22.9037	-10.9432	22.9037	-10.9432	22.9037	-10.9432
P-295	32.0078	21.3377	-10.6701	21.3377	-10.6701	21.3377	-10.6701
P-296	---	---	---	30.7333	---	---	---
P-297	---	36.0635	---	36.0635	---	---	---
P-298	---	36.1186	---	36.1186	---	---	---
P-299	31.2327	21.8333	-9.3994	21.8333	-9.3994	21.8333	-9.3994
P-300	23.5984	24.4289	0.8305	24.4289	0.8305	24.4289	0.8305
P-302	29.2743	25.5142	-3.7601	25.5142	-3.7601	25.5142	-3.7601
P-303	---	38.1989	---	38.1989	---	---	---
P-304	---	43.7097	---	43.7097	---	---	---
P-305	---	37.2359	---	37.2359	---	---	---
P-306	---	26.2497	---	26.2497	---	---	---
P-307	---	31.6955	---	31.6955	---	---	---
P-308	46.4818	37.5057	-8.9761	37.5057	-8.9761	37.5057	-8.9761
P-309	44.2171	28.6033	-15.6138	28.6033	-15.6138	28.6033	-15.6138
P-310	18.4906	20.9896	2.4990	20.9896	2.4990	20.9896	2.4990
P-311	20.1324	21.8050	1.6726	21.8050	1.6726	21.8050	1.6726

Attachment 4.3
2030 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-312	22.9583	20.7792	-2.1791	20.7792	-2.1791	20.7792	-2.1791
P-313	24.4746	19.1901	-5.2845	19.1901	-5.2845	19.1901	-5.2845
P-314	27.5191	21.2186	-6.3005	21.2186	-6.3005	21.2186	-6.3005
P-315	29.6911	26.3903	-3.3008	26.3903	-3.3008	26.3903	-3.3008
P-316	20.5884	17.5162	-3.0722	17.5162	-3.0722	17.5162	-3.0722
P-317	23.8380	20.5909	-3.2471	20.5909	-3.2471	20.5909	-3.2471
P-318	41.3346	37.2293	-4.1053	37.2293	-4.1053	37.2293	-4.1053
P-322	35.7494	36.8526	1.1032	36.8526	1.1032	36.8526	1.1032
P-323	38.4362	26.5409	-11.8953	26.5409	-11.8953	26.5409	-11.8953
P-324	28.1757	20.9084	-7.2673	20.9084	-7.2673	20.9084	-7.2673
P-325	22.7594	20.5321	-2.2273	20.5321	-2.2273	20.5321	-2.2273
P-326	19.7178	18.4632	-1.2546	18.4632	-1.2546	18.4632	-1.2546
P-327	18.8111	13.9020	-4.9091	13.9020	-4.9091	13.9020	-4.9091
P-328	21.2059	17.6201	-3.5858	17.6201	-3.5858	17.6201	-3.5858
P-329	21.3792	18.0332	-3.3460	18.0332	-3.3460	18.0332	-3.3460
P-330	21.3832	18.0209	-3.3623	18.0209	-3.3623	18.0209	-3.3623
P-331	14.8358	11.0070	-3.8288	11.0070	-3.8288	11.0070	-3.8288
P-332	12.0734	10.2818	-1.7916	10.2818	-1.7916	10.2818	-1.7916
P-333	14.9045	13.0771	-1.8274	13.0771	-1.8274	13.0771	-1.8274
P-334	15.0855	19.2319	4.1464	19.2319	4.1464	19.2319	4.1464
P-335	14.0612	13.9463	-0.1149	13.9463	-0.1149	13.9463	-0.1149
P-336	14.3604	11.5993	-2.7611	11.5993	-2.7611	11.5993	-2.7611
P-337	14.1254	11.0114	-3.1140	11.0114	-3.1140	11.0114	-3.1140
P-338	13.8389	10.8388	-3.0001	10.8388	-3.0001	10.8388	-3.0001
P-339	13.5856	10.6881	-2.8975	10.6881	-2.8975	10.6881	-2.8975
P-340	13.4227	10.4966	-2.9261	10.4966	-2.9261	10.4966	-2.9261
P-341	12.7384	14.4513	1.7129	14.4513	1.7129	14.4513	1.7129
P-342	14.3884	20.5666	6.1782	20.5666	6.1782	20.5666	6.1782
P-343	11.9727	12.7312	0.7585	12.7312	0.7585	12.7312	0.7585
P-344	14.3509	18.1882	3.8373	18.1882	3.8373	18.1882	3.8373
P-345	11.2388	12.4837	1.2449	12.4837	1.2449	12.4837	1.2449
P-346	15.0669	19.1087	4.0418	19.1087	4.0418	19.1087	4.0418
P-347	10.4768	11.6669	1.1901	11.6669	1.1901	11.6669	1.1901
P-348	10.5615	9.2226	-1.3389	9.2226	-1.3389	9.2226	-1.3389
P-349	10.9067	9.0907	-1.8160	9.0907	-1.8160	9.0907	-1.8160
P-350	11.7934	9.5615	-2.2319	9.5615	-2.2319	9.5615	-2.2319
P-351	14.0418	11.3577	-2.6841	11.3577	-2.6841	11.3577	-2.6841
P-352	13.4984	11.3537	-2.1447	11.3537	-2.1447	11.3537	-2.1447
P-353	12.9339	11.8378	-1.0961	11.8378	-1.0961	11.8378	-1.0961
P-354	16.1128	15.7759	-0.3369	15.7759	-0.3369	15.7759	-0.3369
P-355	20.5130	21.3259	0.8129	21.3259	0.8129	21.3259	0.8129
P-356	22.8346	20.0642	-2.7704	20.0642	-2.7704	20.0642	-2.7704
P-357	15.8813	16.2643	0.3830	16.2643	0.3830	16.2643	0.3830
P-358	11.6566	12.1491	0.4925	12.1491	0.4925	12.1491	0.4925
P-359	11.7990	11.1027	-0.6963	11.1027	-0.6963	11.1027	-0.6963
P-360	12.0185	12.1525	0.1340	12.1525	0.1340	12.1525	0.1340
P-361	15.0229	15.7748	0.7519	15.7748	0.7519	15.7748	0.7519
P-362	14.0637	18.9294	4.8657	18.9294	4.8657	18.9294	4.8657
P-363	15.2386	20.3080	5.0694	20.3080	5.0694	20.3080	5.0694
P-364	17.7476	21.6523	3.9047	21.6523	3.9047	21.6523	3.9047
P-365	18.8096	20.7927	1.9831	20.7927	1.9831	20.7927	1.9831
P-366	18.8685	18.7449	-0.1236	18.7449	-0.1236	18.7449	-0.1236
P-367	20.6664	20.0138	-0.6526	20.0138	-0.6526	20.0138	-0.6526
P-368	19.5945	21.5093	1.9148	21.5093	1.9148	21.5093	1.9148
P-369	19.5956	21.5129	1.9173	21.5129	1.9173	21.5129	1.9173
P-370	24.8836	22.0007	-2.8829	22.0007	-2.8829	22.0007	-2.8829
P-371	15.8585	14.8845	-0.9740	14.8845	-0.9740	14.8845	-0.9740
P-372	16.1692	14.1950	-1.9742	14.1950	-1.9742	14.1950	-1.9742
P-373	13.7023	12.1972	-1.5051	12.1972	-1.5051	12.1972	-1.5051
P-374	13.0615	11.8265	-1.2350	11.8265	-1.2350	11.8265	-1.2350
P-375	12.8206	11.6973	-1.1233	11.6973	-1.1233	11.6973	-1.1233
P-376	16.0483	14.7122	-1.3361	14.7122	-1.3361	14.7122	-1.3361
P-377	14.5314	13.8399	-0.6915	13.8399	-0.6915	13.8399	-0.6915
P-378	52.1401	35.2459	-16.8942	35.2459	-16.8942	35.2459	-16.8942

Attachment 4.4
2050 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-001	1.3974	1.1162	-0.2812	1.1162	-0.2812	1.1162	-0.2812
P-002	2.7099	2.1741	-0.5358	2.1741	-0.5358	2.1741	-0.5358
P-003	4.7049	4.3053	-0.3996	4.3053	-0.3996	4.3053	-0.3996
P-004	5.2423	4.2578	-0.9845	4.2578	-0.9845	4.2578	-0.9845
P-005	7.0119	6.2123	-0.7996	6.2123	-0.7996	6.2123	-0.7996
P-006	7.5015	7.1836	-0.3179	7.1836	-0.3179	7.1836	-0.3179
P-007	7.5920	7.6022	0.0102	7.6022	0.0102	7.6022	0.0102
P-008	7.5161	7.2552	-0.2609	7.2552	-0.2609	7.2552	-0.2609
P-009	7.9555	7.5107	-0.4448	7.5107	-0.4448	7.5107	-0.4448
P-010	9.1365	9.6276	0.4911	9.6276	0.4911	9.6276	0.4911
P-011	9.6556	9.9938	0.3382	9.9938	0.3382	9.9938	0.3382
P-012	10.3559	10.4815	0.1256	10.4815	0.1256	10.4815	0.1256
P-013	10.0811	9.0850	-0.9961	9.0850	-0.9961	9.0850	-0.9961
P-014	8.8887	7.9977	-0.8910	7.9977	-0.8910	7.9977	-0.8910
P-015	10.2684	9.0953	-1.1731	9.0953	-1.1731	9.0953	-1.1731
P-016	16.9076	12.9516	-3.9560	12.9516	-3.9560	12.9516	-3.9560
P-017	31.3461	19.2418	-12.1043	19.2418	-12.1043	19.2418	-12.1043
P-018	14.7415	13.3041	-1.4374	13.3041	-1.4374	13.3041	-1.4374
P-019	13.6720	13.9196	0.2476	13.9196	0.2476	13.9196	0.2476
P-020	27.6077	21.7098	-5.8979	21.7098	-5.8979	21.7098	-5.8979
P-021	14.3721	11.7367	-2.6354	11.7367	-2.6354	11.7367	-2.6354
P-022	18.5201	14.1583	-4.3618	14.1583	-4.3618	14.1583	-4.3618
P-023	17.7187	14.3350	-3.3837	14.3350	-3.3837	14.3350	-3.3837
P-024	17.8549	14.7601	-3.0948	14.7601	-3.0948	14.7601	-3.0948
P-025	17.6704	15.6585	-2.0119	15.6585	-2.0119	15.6585	-2.0119
P-026	19.3336	17.3565	-1.9771	17.3565	-1.9771	17.3565	-1.9771
P-027	24.1675	20.8057	-3.3618	20.8057	-3.3618	20.8057	-3.3618
P-028	20.4412	20.2887	-0.1525	20.2887	-0.1525	20.2887	-0.1525
P-029	21.5543	19.0547	-2.4996	19.0547	-2.4996	19.0547	-2.4996
P-030	21.9693	17.6517	-4.3176	17.6517	-4.3176	17.6517	-4.3176
P-031	---	24.0944	---	24.0944	---	---	---
P-032	25.0392	22.3362	-2.7030	22.3362	-2.7030	22.3362	-2.7030
P-033	---	22.5623	---	22.5623	---	---	---
P-034	---	23.8373	---	23.8373	---	---	---
P-035	29.8896	24.6711	-5.2185	24.6711	-5.2185	24.6711	-5.2185
P-036	---	21.2272	---	21.2272	---	---	---
P-037	21.8489	21.0825	-0.7664	21.0825	-0.7664	21.0825	-0.7664
P-038	---	19.4611	---	19.4611	---	---	---
P-039	---	18.7810	---	18.7810	---	---	---
P-041	---	19.3581	---	19.3581	---	---	---
P-042	---	18.4836	---	18.4836	---	---	---
P-043	---	14.9781	---	14.9781	---	---	---
P-044	---	17.2045	---	17.2045	---	---	---
P-045	21.9761	20.9327	-1.0434	20.9327	-1.0434	20.9327	-1.0434
P-046	---	17.5193	---	17.5193	---	---	---
P-047	---	15.2527	---	15.2527	---	---	---
P-048	---	18.4762	---	18.4762	---	---	---
P-049	7.0077	6.5075	-0.5002	6.5075	-0.5002	6.5075	-0.5002
P-050	7.2090	6.2256	-0.9834	6.2256	-0.9834	6.2256	-0.9834
P-051	7.5128	6.5426	-0.9702	6.5426	-0.9702	6.5426	-0.9702
P-052	7.8381	6.9495	-0.8886	6.9495	-0.8886	6.9495	-0.8886
P-053	8.1957	7.4866	-0.7091	7.4866	-0.7091	7.4866	-0.7091
P-054	8.7402	7.8018	-0.9384	7.8018	-0.9384	7.8018	-0.9384
P-055	9.1476	8.3261	-0.8215	8.3261	-0.8215	8.3261	-0.8215
P-056	10.5567	9.6742	-0.8825	9.6742	-0.8825	9.6742	-0.8825
P-057	12.9443	11.1368	-1.8075	11.1368	-1.8075	11.1368	-1.8075
P-058	6.2647	5.1507	-1.1140	5.1507	-1.1140	5.1507	-1.1140
P-059	6.1417	4.9330	-1.2087	4.9330	-1.2087	4.9330	-1.2087
P-060	6.1063	4.9955	-1.1108	4.9955	-1.1108	4.9955	-1.1108
P-061	8.1291	6.4728	-1.6563	6.4728	-1.6563	6.4728	-1.6563
P-062	7.7818	6.4940	-1.2878	6.4940	-1.2878	6.4940	-1.2878
P-063	7.8143	7.1015	-0.7128	7.1015	-0.7128	7.1015	-0.7128
P-064	8.8950	8.9937	0.0987	8.9937	0.0987	8.9937	0.0987
P-065	10.7863	13.0864	2.3001	13.0864	2.3001	13.0864	2.3001
P-066	9.6660	7.5160	-2.1500	7.5160	-2.1500	7.5160	-2.1500
P-067	10.9001	8.3074	-2.5927	8.3074	-2.5927	8.3074	-2.5927
P-068	12.0029	9.2590	-2.7439	9.2590	-2.7439	9.2590	-2.7439
P-069	14.0480	10.0904	-3.9576	10.0904	-3.9576	10.0904	-3.9576
P-070	13.4929	9.6308	-3.8621	9.6308	-3.8621	9.6308	-3.8621
P-071	12.9699	9.2802	-3.6897	9.2802	-3.6897	9.2802	-3.6897
P-072	12.5404	9.3243	-3.2161	9.3243	-3.2161	9.3243	-3.2161
P-073	12.3010	10.0645	-2.2365	10.0645	-2.2365	10.0645	-2.2365
P-074	11.5438	10.4999	-1.0439	10.4999	-1.0439	10.4999	-1.0439
P-075	14.6935	12.9827	-1.7108	12.9827	-1.7108	12.9827	-1.7108

Attachment 4.4
2050 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-076	14.0979	11.5726	-2.5253	11.5726	-2.5253	11.5726	-2.5253
P-077	14.8465	11.1713	-3.6752	11.1713	-3.6752	11.1713	-3.6752
P-078	15.9058	12.0367	-3.8691	12.0367	-3.8691	12.0367	-3.8691
P-079	16.4716	12.3784	-4.0932	12.3784	-4.0932	12.3784	-4.0932
P-080	17.1315	11.8504	-5.2811	11.8504	-5.2811	11.8504	-5.2811
P-081	17.5741	12.4071	-5.1670	12.4071	-5.1670	12.4071	-5.1670
P-082	18.2115	13.4299	-4.7816	13.4299	-4.7816	13.4299	-4.7816
P-083	16.0697	12.9247	-3.1450	12.9247	-3.1450	12.9247	-3.1450
P-084	17.9956	14.2706	-3.7250	14.2706	-3.7250	14.2706	-3.7250
P-085	20.7646	16.8125	-3.9521	16.8125	-3.9521	16.8125	-3.9521
P-089	---	---	---	19.1940	---	---	---
P-096	---	22.4614	---	22.4614	---	---	---
P-097	29.4149	24.4227	-4.9922	24.4227	-4.9922	24.4227	-4.9922
P-098	29.9586	23.3577	-6.6009	23.3577	-6.6009	23.3577	-6.6009
P-099	27.3831	21.5392	-5.8439	21.5392	-5.8439	21.5392	-5.8439
P-100	24.7453	20.1836	-4.5617	20.1836	-4.5617	20.1836	-4.5617
P-101	23.1315	19.3662	-3.7653	19.3662	-3.7653	19.3662	-3.7653
P-102	20.4122	15.8691	-4.5431	15.8691	-4.5431	15.8691	-4.5431
P-103	---	16.6360	---	16.6360	---	---	---
P-104	---	14.0704	---	14.0704	---	---	---
P-105	---	17.2876	---	17.2876	---	---	---
P-106	21.7288	18.4993	-3.2295	18.4993	-3.2295	18.4993	-3.2295
P-107	20.4276	17.0736	-3.3540	17.0736	-3.3540	17.0736	-3.3540
P-108	---	15.9821	---	15.9821	---	---	---
P-109	17.6112	14.0905	-3.5207	14.0905	-3.5207	14.0905	-3.5207
P-110	11.9206	9.4018	-2.5188	9.4018	-2.5188	9.4018	-2.5188
P-111	10.1861	7.7762	-2.4099	7.7762	-2.4099	7.7762	-2.4099
P-112	12.4847	9.5447	-2.9400	9.5447	-2.9400	9.5447	-2.9400
P-113	9.8428	7.3851	-2.4577	7.3851	-2.4577	7.3851	-2.4577
P-114	10.4486	8.1112	-2.3374	8.1112	-2.3374	8.1112	-2.3374
P-115	15.7070	11.9401	-3.7669	11.9401	-3.7669	11.9401	-3.7669
P-116	18.3909	13.2650	-5.1259	13.2650	-5.1259	13.2650	-5.1259
P-117	20.3353	14.4122	-5.9231	14.4122	-5.9231	14.4122	-5.9231
P-118	19.0153	13.2832	-5.7321	13.2832	-5.7321	13.2832	-5.7321
P-119	18.1623	14.5256	-3.6367	14.5256	-3.6367	14.5256	-3.6367
P-120	29.0141	18.0656	-10.9485	18.0656	-10.9485	18.0656	-10.9485
P-121	29.0238	20.1005	-8.9233	20.1005	-8.9233	20.1005	-8.9233
P-122	28.9601	21.7047	-7.2554	21.7047	-7.2554	21.7047	-7.2554
P-123	29.5918	23.5698	-6.0220	23.5698	-6.0220	23.5698	-6.0220
P-124	20.5602	16.1651	-4.3951	16.1651	-4.3951	16.1651	-4.3951
P-125	20.5876	16.9406	-3.6470	16.9406	-3.6470	16.9406	-3.6470
P-126	21.6934	18.3497	-3.3437	18.3497	-3.3437	18.3497	-3.3437
P-127	23.0335	18.3105	-4.7230	18.3105	-4.7230	18.3105	-4.7230
P-128	22.8018	16.8030	-5.9988	16.8030	-5.9988	16.8030	-5.9988
P-129	21.4883	16.0159	-5.4724	16.0159	-5.4724	16.0159	-5.4724
P-130	18.9746	14.4262	-4.5484	14.4262	-4.5484	14.4262	-4.5484
P-131	16.8939	12.8151	-4.0788	12.8151	-4.0788	12.8151	-4.0788
P-132	15.9534	12.4367	-3.5167	12.4367	-3.5167	12.4367	-3.5167
P-133	14.7639	11.6965	-3.0674	11.6965	-3.0674	11.6965	-3.0674
P-134	13.7814	10.7754	-3.0060	10.7754	-3.0060	10.7754	-3.0060
P-135	12.7931	9.8808	-2.9123	9.8808	-2.9123	9.8808	-2.9123
P-136	13.4379	10.4601	-2.9778	10.4601	-2.9778	10.4601	-2.9778
P-137	14.7984	11.4114	-3.3870	11.4114	-3.3870	11.4114	-3.3870
P-138	15.8816	12.5089	-3.3727	12.5089	-3.3727	12.5089	-3.3727
P-139	17.1943	13.8353	-3.3590	13.8353	-3.3590	13.8353	-3.3590
P-140	18.9694	15.1570	-3.8124	15.1570	-3.8124	15.1570	-3.8124
P-141	20.3833	15.4406	-4.9427	15.4406	-4.9427	15.4406	-4.9427
P-142	22.2920	16.7423	-5.5497	16.7423	-5.5497	16.7423	-5.5497
P-143	24.0469	17.8722	-6.1747	17.8722	-6.1747	17.8722	-6.1747
P-144	24.6317	18.0462	-6.5855	18.0462	-6.5855	18.0462	-6.5855
P-145	25.1834	18.1574	-7.0260	18.1574	-7.0260	18.1574	-7.0260
P-146	27.2572	19.5321	-7.7251	19.5321	-7.7251	19.5321	-7.7251
P-147	29.6884	21.8819	-7.8065	21.8819	-7.8065	21.8819	-7.8065
P-148	33.3127	24.6850	-8.6277	24.6850	-8.6277	24.6850	-8.6277
P-149	30.9606	25.0718	-5.8888	25.0718	-5.8888	25.0718	-5.8888
P-150	33.2431	26.1230	-7.1201	26.1230	-7.1201	26.1230	-7.1201
P-152	63.9742	44.0499	-19.9243	44.0499	-19.9243	44.0499	-19.9243
P-154	37.8342	31.1283	-6.7059	31.1283	-6.7059	31.1283	-6.7059
P-155	39.1055	33.7748	-5.3307	33.7748	-5.3307	33.7748	-5.3307
P-156	39.2786	33.0408	-6.2378	33.0408	-6.2378	33.0408	-6.2378
P-157	37.6003	32.1672	-5.4331	32.1672	-5.4331	32.1672	-5.4331
P-158	38.4681	32.5464	-5.9217	32.5464	-5.9217	32.5464	-5.9217
P-159	40.8267	29.3005	-11.5262	29.3005	-11.5262	29.3005	-11.5262
P-160	42.9917	33.1845	-9.8072	33.1845	-9.8072	33.1845	-9.8072

Attachment 4.4
2050 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-161	55.8727	37.8775	-17.9952	37.8775	-17.9952	37.8775	-17.9952
P-162	67.3300	41.5278	-25.8022	41.5278	-25.8022	41.5278	-25.8022
P-163	58.1509	33.5722	-24.5787	33.5722	-24.5787	33.5722	-24.5787
P-164	70.4184	39.5403	-30.8781	39.5403	-30.8781	39.5403	-30.8781
P-165	80.1140	40.4474	-39.6666	40.4474	-39.6666	40.4474	-39.6666
P-166	89.5827	38.3143	-51.2684	38.3143	-51.2684	38.3143	-51.2684
P-167	81.4002	38.6067	-42.7935	38.6067	-42.7935	38.6067	-42.7935
P-168	64.2270	38.4421	-25.7849	38.4421	-25.7849	38.4421	-25.7849
P-169	83.3283	42.6537	-40.6746	42.6537	-40.6746	42.6537	-40.6746
P-170	64.2777	39.1672	-25.1105	39.1672	-25.1105	39.1672	-25.1105
P-171	58.2678	39.2536	-19.0142	39.2536	-19.0142	39.2536	-19.0142
P-172	46.6583	46.9058	0.2475	46.9058	0.2475	46.9058	0.2475
P-173	50.7387	39.7775	-10.9612	39.7775	-10.9612	39.7775	-10.9612
P-174	47.0388	32.9065	-14.1323	32.9065	-14.1323	32.9065	-14.1323
P-175	45.2669	31.8780	-13.3889	31.8780	-13.3889	31.8780	-13.3889
P-176	43.7463	33.7727	-9.9736	33.7727	-9.9736	33.7727	-9.9736
P-177	42.8974	34.9269	-7.9705	34.9269	-7.9705	34.9269	-7.9705
P-178	43.2441	33.8140	-9.4301	33.8140	-9.4301	33.8140	-9.4301
P-179	42.8744	34.7571	-8.1173	34.7571	-8.1173	34.7571	-8.1173
P-180	41.5337	33.1027	-8.4310	33.1027	-8.4310	33.1027	-8.4310
P-181	38.2632	30.5815	-7.6817	30.5815	-7.6817	30.5815	-7.6817
P-182	33.9650	27.5950	-6.3700	27.5950	-6.3700	27.5950	-6.3700
P-183	29.5485	24.4010	-5.1475	24.4010	-5.1475	24.4010	-5.1475
P-184	25.5754	20.1996	-5.3758	20.1996	-5.3758	20.1996	-5.3758
P-185	22.5407	18.4684	-4.0723	18.4684	-4.0723	18.4684	-4.0723
P-186	20.3893	17.1684	-3.2209	17.1684	-3.2209	17.1684	-3.2209
P-187	18.8256	15.7813	-3.0443	15.7813	-3.0443	15.7813	-3.0443
P-188	17.9916	15.0050	-2.9866	15.0050	-2.9866	15.0050	-2.9866
P-189	5.8605	4.7207	-1.1398	4.7207	-1.1398	4.7207	-1.1398
P-191	45.5703	34.1578	-11.4125	34.1578	-11.4125	34.1578	-11.4125
P-193	36.1634	27.5606	-8.6028	27.5606	-8.6028	27.5606	-8.6028
P-194	35.7841	30.3441	-5.4400	30.3441	-5.4400	30.3441	-5.4400
P-195	32.5042	31.5746	-0.9296	31.5746	-0.9296	31.5746	-0.9296
P-196	32.5034	30.1881	-2.3153	30.1881	-2.3153	30.1881	-2.3153
P-197	34.2992	30.2370	-4.0622	30.2370	-4.0622	30.2370	-4.0622
P-198	33.8410	31.1328	-2.7082	31.1328	-2.7082	31.1328	-2.7082
P-199	33.1124	31.6779	-1.4345	31.6779	-1.4345	31.6779	-1.4345
P-200	33.0617	34.4904	1.4287	34.4904	1.4287	34.4904	1.4287
P-201	18.9690	15.6332	-3.3358	15.6332	-3.3358	15.6332	-3.3358
P-202	18.9678	16.1522	-2.8156	16.1522	-2.8156	16.1522	-2.8156
P-203	19.7959	16.6746	-3.1213	16.6746	-3.1213	16.6746	-3.1213
P-204	20.8544	16.6762	-4.1782	16.6762	-4.1782	16.6762	-4.1782
P-205	20.9427	16.8971	-4.0456	16.8971	-4.0456	16.8971	-4.0456
P-206	21.8962	17.0064	-4.8898	17.0064	-4.8898	17.0064	-4.8898
P-207	22.6336	16.6848	-5.9488	16.6848	-5.9488	16.6848	-5.9488
P-208	14.3563	11.6283	-2.7280	11.6283	-2.7280	11.6283	-2.7280
P-209	14.6199	11.6194	-3.0005	11.6194	-3.0005	11.6194	-3.0005
P-210	14.6733	11.6580	-3.0153	11.6580	-3.0153	11.6580	-3.0153
P-211	15.0032	11.9458	-3.0574	11.9458	-3.0574	11.9458	-3.0574
P-212	16.2839	12.2250	-4.0589	12.2250	-4.0589	12.2250	-4.0589
P-213	16.4296	11.9994	-4.4302	11.9994	-4.4302	11.9994	-4.4302
P-214	15.7304	11.5139	-4.2165	11.5139	-4.2165	11.5139	-4.2165
P-215	16.2884	11.8836	-4.4048	11.8836	-4.4048	11.8836	-4.4048
P-216	17.6501	12.8196	-4.8305	12.8196	-4.8305	12.8196	-4.8305
P-217	18.6624	13.5178	-5.1446	13.5178	-5.1446	13.5178	-5.1446
P-218	18.2081	13.1942	-5.0139	13.1942	-5.0139	13.1942	-5.0139
P-219	20.4953	14.7499	-5.7454	14.7499	-5.7454	14.7499	-5.7454
P-220	22.1642	15.6548	-6.5094	15.6548	-6.5094	15.6548	-6.5094
P-221	20.8048	14.9905	-5.8143	14.9905	-5.8143	14.9905	-5.8143
P-222	25.9401	18.1442	-7.7959	18.1442	-7.7959	18.1442	-7.7959
P-223	26.5229	18.3043	-8.2186	18.3043	-8.2186	18.3043	-8.2186
P-224	26.4227	19.3039	-7.1188	19.3039	-7.1188	19.3039	-7.1188
P-225	29.5677	21.9053	-7.6624	21.9053	-7.6624	21.9053	-7.6624
P-226	32.1586	23.1482	-9.0104	23.1482	-9.0104	23.1482	-9.0104
P-227	32.1969	25.7992	-6.3977	25.7992	-6.3977	25.7992	-6.3977
P-228	27.7015	21.5070	-6.1945	21.5070	-6.1945	21.5070	-6.1945
P-229	32.4262	20.1689	-12.2573	20.1689	-12.2573	20.1689	-12.2573
P-230	37.2285	22.6473	-14.5812	22.6473	-14.5812	22.6473	-14.5812
P-231	16.6618	12.3621	-4.2997	12.3621	-4.2997	12.3621	-4.2997
P-232	40.4649	27.2440	-13.2209	27.2440	-13.2209	27.2440	-13.2209
P-233	35.3129	24.0521	-11.2608	24.0521	-11.2608	24.0521	-11.2608
P-234	33.1853	22.5986	-10.5867	22.5986	-10.5867	22.5986	-10.5867
P-235	37.6882	25.8862	-11.8020	25.8862	-11.8020	25.8862	-11.8020
P-236	32.0215	22.1866	-9.8349	22.1866	-9.8349	22.1866	-9.8349

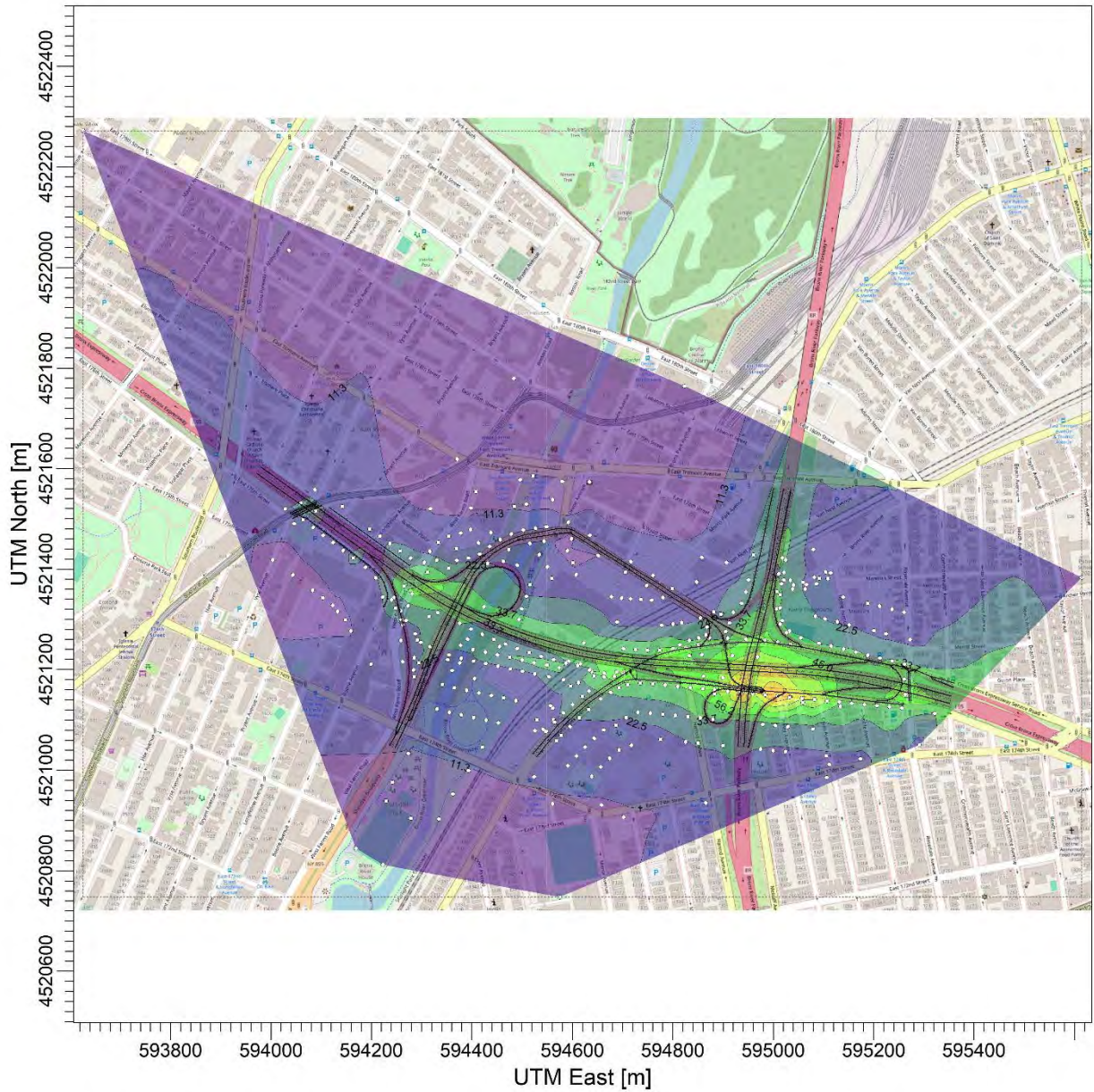
Attachment 4.4
2050 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-237	34.9780	24.2974	-10.6806	24.2974	-10.6806	24.2974	-10.6806
P-238	33.4047	23.7070	-9.6977	23.7070	-9.6977	23.7070	-9.6977
P-239	34.9669	24.7285	-10.2384	24.7285	-10.2384	24.7285	-10.2384
P-240	35.1657	26.8249	-8.3408	26.8249	-8.3408	26.8249	-8.3408
P-241	41.5447	28.1303	-13.4144	28.1303	-13.4144	28.1303	-13.4144
P-242	43.7168	28.2891	-15.4277	28.2891	-15.4277	28.2891	-15.4277
P-243	48.7226	31.5651	-17.1575	31.5651	-17.1575	31.5651	-17.1575
P-244	59.0156	39.4819	-19.5337	39.4819	-19.5337	39.4819	-19.5337
P-245	44.7729	27.5490	-17.2239	27.5490	-17.2239	27.5490	-17.2239
P-246	50.7406	31.4053	-19.3353	31.4053	-19.3353	31.4053	-19.3353
P-247	37.6500	51.2709	13.6209	51.2709	13.6209	51.2709	13.6209
P-248	44.3795	52.1683	7.7888	52.1683	7.7888	52.1683	7.7888
P-249	32.2729	29.2775	-2.9954	29.2775	-2.9954	29.2775	-2.9954
P-250	27.4740	25.1787	-2.2953	25.1787	-2.2953	25.1787	-2.2953
P-251	24.6937	20.8045	-3.8892	20.8045	-3.8892	20.8045	-3.8892
P-252	23.2039	14.1570	-9.0469	14.1570	-9.0469	14.1570	-9.0469
P-253	26.1294	17.1087	-9.0207	17.1087	-9.0207	17.1087	-9.0207
P-254	26.8361	17.6797	-9.1564	17.6797	-9.1564	17.6797	-9.1564
P-255	26.2785	17.8248	-8.4537	17.8248	-8.4537	17.8248	-8.4537
P-256	24.0153	18.2345	-5.7808	18.2345	-5.7808	18.2345	-5.7808
P-257	21.3866	20.1665	-1.2201	20.1665	-1.2201	20.1665	-1.2201
P-258	21.9031	20.4337	-1.4694	20.4337	-1.4694	20.4337	-1.4694
P-259	21.8527	17.2929	-4.5598	17.2929	-4.5598	17.2929	-4.5598
P-260	23.9964	23.0699	-0.9265	23.0699	-0.9265	23.0699	-0.9265
P-261	28.3037	27.2450	-1.0587	27.2450	-1.0587	27.2450	-1.0587
P-262	32.1492	28.4965	-3.6527	28.4965	-3.6527	28.4965	-3.6527
P-263	31.3218	27.8380	-3.4838	27.8380	-3.4838	27.8380	-3.4838
P-264	46.6319	30.8591	-15.7728	30.8591	-15.7728	30.8591	-15.7728
P-265	33.1201	29.5557	-3.5644	29.5557	-3.5644	29.5557	-3.5644
P-266	45.9753	34.6843	-11.2910	34.6843	-11.2910	34.6843	-11.2910
P-267	38.1090	31.5710	-6.5380	31.5710	-6.5380	31.5710	-6.5380
P-268	46.5376	37.1019	-9.4357	37.1019	-9.4357	37.1019	-9.4357
P-269	48.1276	40.2802	-7.8474	40.2802	-7.8474	40.2802	-7.8474
P-270	40.1519	39.1404	-1.0115	39.1404	-1.0115	39.1404	-1.0115
P-271	39.3305	32.6383	-6.6922	32.6383	-6.6922	32.6383	-6.6922
P-272	40.1812	30.0969	-10.0843	30.0969	-10.0843	30.0969	-10.0843
P-273	39.9811	29.5759	-10.4052	29.5759	-10.4052	29.5759	-10.4052
P-274	58.3990	40.9656	-17.4334	40.9656	-17.4334	40.9656	-17.4334
P-275	54.5479	38.0225	-16.5254	38.0225	-16.5254	38.0225	-16.5254
P-276	48.4323	33.5087	-14.9236	33.5087	-14.9236	33.5087	-14.9236
P-277	47.8652	33.1596	-14.7056	33.1596	-14.7056	33.1596	-14.7056
P-278	42.8750	30.2784	-12.5966	30.2784	-12.5966	30.2784	-12.5966
P-279	41.6618	29.2104	-12.4514	29.2104	-12.4514	29.2104	-12.4514
P-280	45.3546	30.8981	-14.4565	30.8981	-14.4565	30.8981	-14.4565
P-281	---	37.6384	---	37.6384	---	---	---
P-282	---	41.7032	---	41.7032	---	---	---
P-283	---	38.3751	---	38.3751	---	---	---
P-284	---	40.6366	---	40.6366	---	---	---
P-285	---	37.2288	---	37.2288	---	---	---
P-286	39.6834	26.1268	-13.5566	26.1268	-13.5566	26.1268	-13.5566
P-287	38.3204	24.9711	-13.3493	24.9711	-13.3493	24.9711	-13.3493
P-288	---	36.6837	---	36.6837	---	---	---
P-289	---	35.7598	---	35.7598	---	---	---
P-290	36.3052	24.3824	-11.9228	24.3824	-11.9228	24.3824	-11.9228
P-291	34.3712	23.4871	-10.8841	23.4871	-10.8841	23.4871	-10.8841
P-292	---	36.2168	---	36.2168	---	---	---
P-293	---	35.2648	---	35.2648	---	---	---
P-294	32.7023	21.8810	-10.8213	21.8810	-10.8213	21.8810	-10.8213
P-295	30.9188	20.5301	-10.3887	20.5301	-10.3887	20.5301	-10.3887
P-296	---	---	---	29.5623	---	---	---
P-297	---	34.5673	---	34.5673	---	---	---
P-298	---	34.7362	---	34.7362	---	---	---
P-299	30.1537	20.9997	-9.1540	20.9997	-9.1540	20.9997	-9.1540
P-300	22.7880	23.3048	0.5168	23.3048	0.5168	23.3048	0.5168
P-302	28.3925	24.4661	-3.9264	24.4661	-3.9264	24.4661	-3.9264
P-303	---	36.8315	---	36.8315	---	---	---
P-304	---	42.3027	---	42.3027	---	---	---
P-305	---	35.9052	---	35.9052	---	---	---
P-306	---	25.2175	---	25.2175	---	---	---
P-307	---	30.2821	---	30.2821	---	---	---
P-308	45.2749	35.9212	-9.3537	35.9212	-9.3537	35.9212	-9.3537
P-309	42.7655	27.0825	-15.6830	27.0825	-15.6830	27.0825	-15.6830
P-310	18.0161	19.6076	1.5915	19.6076	1.5915	19.6076	1.5915
P-311	19.0950	20.4301	1.3351	20.4301	1.3351	20.4301	1.3351

Attachment 4.4
2050 PM₁₀ 24-Hour Average Modeled Concentrations (µg/m³)

Receptor Number	No Build	Alternative A (with SUP)	Difference (Alternative A minus No Build)	Alternative B (with SUP and Greenway Connection)	Difference (Alternative B minus No Build)	Alternative C (without SUP)	Difference (Alternative C minus No Build)
P-312	21.7794	19.3692	-2.4102	19.3692	-2.4102	19.3692	-2.4102
P-313	23.4743	17.9867	-5.4876	17.9867	-5.4876	17.9867	-5.4876
P-314	26.4340	20.2076	-6.2264	20.2076	-6.2264	20.2076	-6.2264
P-315	28.6158	25.2559	-3.3599	25.2559	-3.3599	25.2559	-3.3599
P-316	19.9910	16.8111	-3.1799	16.8111	-3.1799	16.8111	-3.1799
P-317	23.1071	19.6975	-3.4096	19.6975	-3.4096	19.6975	-3.4096
P-318	40.1466	36.1435	-4.0031	36.1435	-4.0031	36.1435	-4.0031
P-322	34.4581	35.8015	1.3434	35.8015	1.3434	35.8015	1.3434
P-323	37.0025	25.6616	-11.3409	25.6616	-11.3409	25.6616	-11.3409
P-324	27.1159	20.2873	-6.8286	20.2873	-6.8286	20.2873	-6.8286
P-325	21.9132	19.8250	-2.0882	19.8250	-2.0882	19.8250	-2.0882
P-326	19.0165	17.8987	-1.1178	17.8987	-1.1178	17.8987	-1.1178
P-327	18.3034	13.5472	-4.7562	13.5472	-4.7562	13.5472	-4.7562
P-328	21.0619	17.2803	-3.7816	17.2803	-3.7816	17.2803	-3.7816
P-329	21.7172	17.6606	-4.0566	17.6606	-4.0566	17.6606	-4.0566
P-330	21.5992	17.6571	-3.9421	17.6571	-3.9421	17.6571	-3.9421
P-331	14.6423	10.8134	-3.8289	10.8134	-3.8289	10.8134	-3.8289
P-332	11.9276	10.1034	-1.8242	10.1034	-1.8242	10.1034	-1.8242
P-333	14.8648	12.7797	-2.0851	12.7797	-2.0851	12.7797	-2.0851
P-334	14.9796	18.7833	3.8037	18.7833	3.8037	18.7833	3.8037
P-335	13.8615	13.6200	-0.2415	13.6200	-0.2415	13.6200	-0.2415
P-336	13.9792	11.3862	-2.5930	11.3862	-2.5930	11.3862	-2.5930
P-337	13.6944	10.7358	-2.9586	10.7358	-2.9586	10.7358	-2.9586
P-338	13.3844	10.5506	-2.8338	10.5506	-2.8338	10.5506	-2.8338
P-339	13.1194	10.3898	-2.7296	10.3898	-2.7296	10.3898	-2.7296
P-340	12.9703	10.2381	-2.7322	10.2381	-2.7322	10.2381	-2.7322
P-341	12.5245	14.1296	1.6051	14.1296	1.6051	14.1296	1.6051
P-342	14.3097	20.0116	5.7019	20.0116	5.7019	20.0116	5.7019
P-343	11.6768	12.4723	0.7955	12.4723	0.7955	12.4723	0.7955
P-344	14.1928	17.8026	3.6098	17.8026	3.6098	17.8026	3.6098
P-345	11.2042	12.3921	1.1879	12.3921	1.1879	12.3921	1.1879
P-346	14.7972	19.0901	4.2929	19.0901	4.2929	19.0901	4.2929
P-347	10.2163	11.6969	1.4806	11.6969	1.4806	11.6969	1.4806
P-348	10.1951	9.0442	-1.1509	9.0442	-1.1509	9.0442	-1.1509
P-349	10.5216	8.8367	-1.6849	8.8367	-1.6849	8.8367	-1.6849
P-350	11.3656	9.2789	-2.0867	9.2789	-2.0867	9.2789	-2.0867
P-351	13.5311	10.9217	-2.6094	10.9217	-2.6094	10.9217	-2.6094
P-352	13.0165	10.9676	-2.0489	10.9676	-2.0489	10.9676	-2.0489
P-353	12.4777	11.4376	-1.0401	11.4376	-1.0401	11.4376	-1.0401
P-354	15.6069	15.2635	-0.3434	15.2635	-0.3434	15.2635	-0.3434
P-355	19.8070	20.5803	0.7733	20.5803	0.7733	20.5803	0.7733
P-356	22.0325	19.4138	-2.6187	19.4138	-2.6187	19.4138	-2.6187
P-357	15.3731	15.7319	0.3588	15.7319	0.3588	15.7319	0.3588
P-358	11.2723	11.9813	0.7090	11.9813	0.7090	11.9813	0.7090
P-359	11.3894	11.0185	-0.3709	11.0185	-0.3709	11.0185	-0.3709
P-360	11.7451	11.9371	0.1920	11.9371	0.1920	11.9371	0.1920
P-361	14.5068	15.4692	0.9624	15.4692	0.9624	15.4692	0.9624
P-362	13.6749	18.7166	5.0417	18.7166	5.0417	18.7166	5.0417
P-363	14.8557	20.0486	5.1929	20.0486	5.1929	20.0486	5.1929
P-364	17.2298	21.1800	3.9502	21.1800	3.9502	21.1800	3.9502
P-365	18.2605	20.4155	2.1550	20.4155	2.1550	20.4155	2.1550
P-366	18.4349	18.2460	-0.1889	18.2460	-0.1889	18.2460	-0.1889
P-367	20.2082	19.4815	-0.7267	19.4815	-0.7267	19.4815	-0.7267
P-368	19.0814	20.9399	1.8585	20.9399	1.8585	20.9399	1.8585
P-369	18.9946	20.8654	1.8708	20.8654	1.8708	20.8654	1.8708
P-370	24.1127	21.2479	-2.8648	21.2479	-2.8648	21.2479	-2.8648
P-371	15.3789	14.3996	-0.9793	14.3996	-0.9793	14.3996	-0.9793
P-372	15.6461	13.6511	-1.9950	13.6511	-1.9950	13.6511	-1.9950
P-373	13.1993	11.8246	-1.3747	11.8246	-1.3747	11.8246	-1.3747
P-374	12.6257	11.4002	-1.2255	11.4002	-1.2255	11.4002	-1.2255
P-375	12.4474	11.3172	-1.1302	11.3172	-1.1302	11.3172	-1.1302
P-376	15.6018	14.2960	-1.3058	14.2960	-1.3058	14.2960	-1.3058
P-377	14.1407	13.4596	-0.6811	13.4596	-0.6811	13.4596	-0.6811
P-378	50.3930	35.5119	-14.8811	35.5119	-14.8811	35.5119	-14.8811

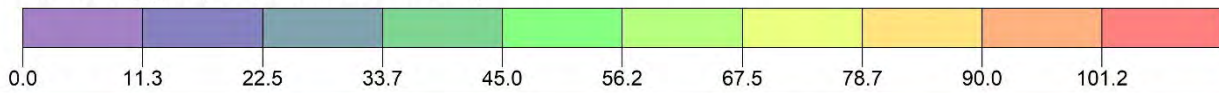
Attachment 4.5: 2030 No Build Alternative PM₁₀ 24-Hour Average Concentrations



PLOT FILE OF HIGH 6TH HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

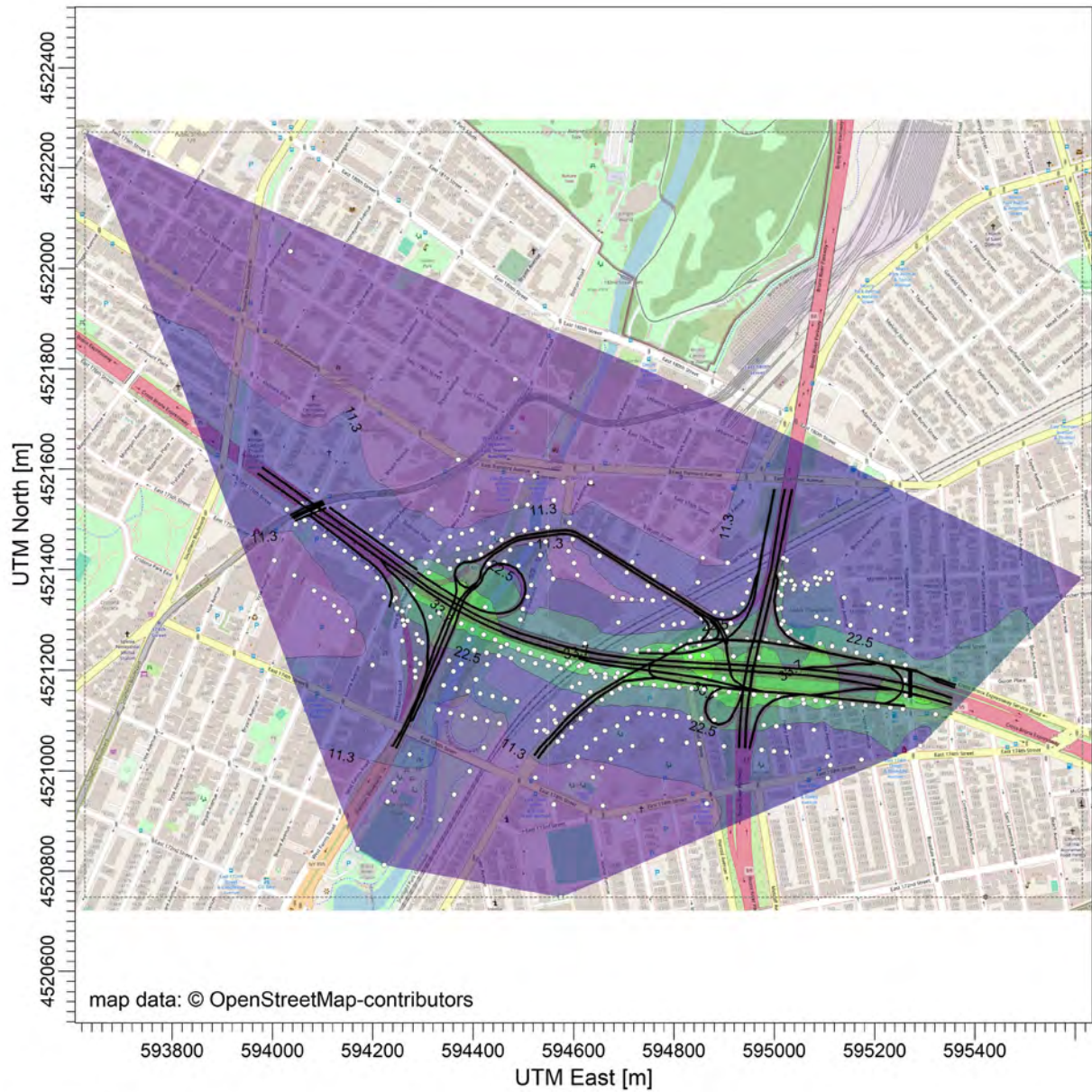
ug/m³

Max: 90.4 [ug/m³] at (595008.32, 4521147.47)



Note: The High 6th High concentration is the sixth highest 24-hour modeled concentration over the five analysis years at each receptor. The High 6th High concentration is used to evaluate compliance with the 24-hour PM₁₀ NAAQS according to the USEPA.

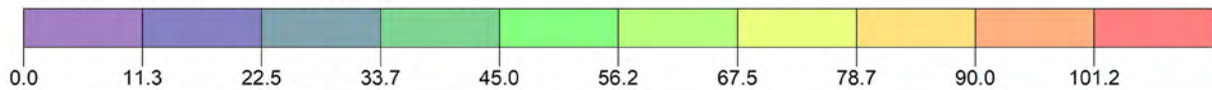
Attachment 4.6: 2030 Alternatives A, B, and C PM₁₀ 24-Hour Average Concentrations



PLOT FILE OF HIGH 6TH HIGH 24-HR VALUES FOR SOURCE GROUP: ALL

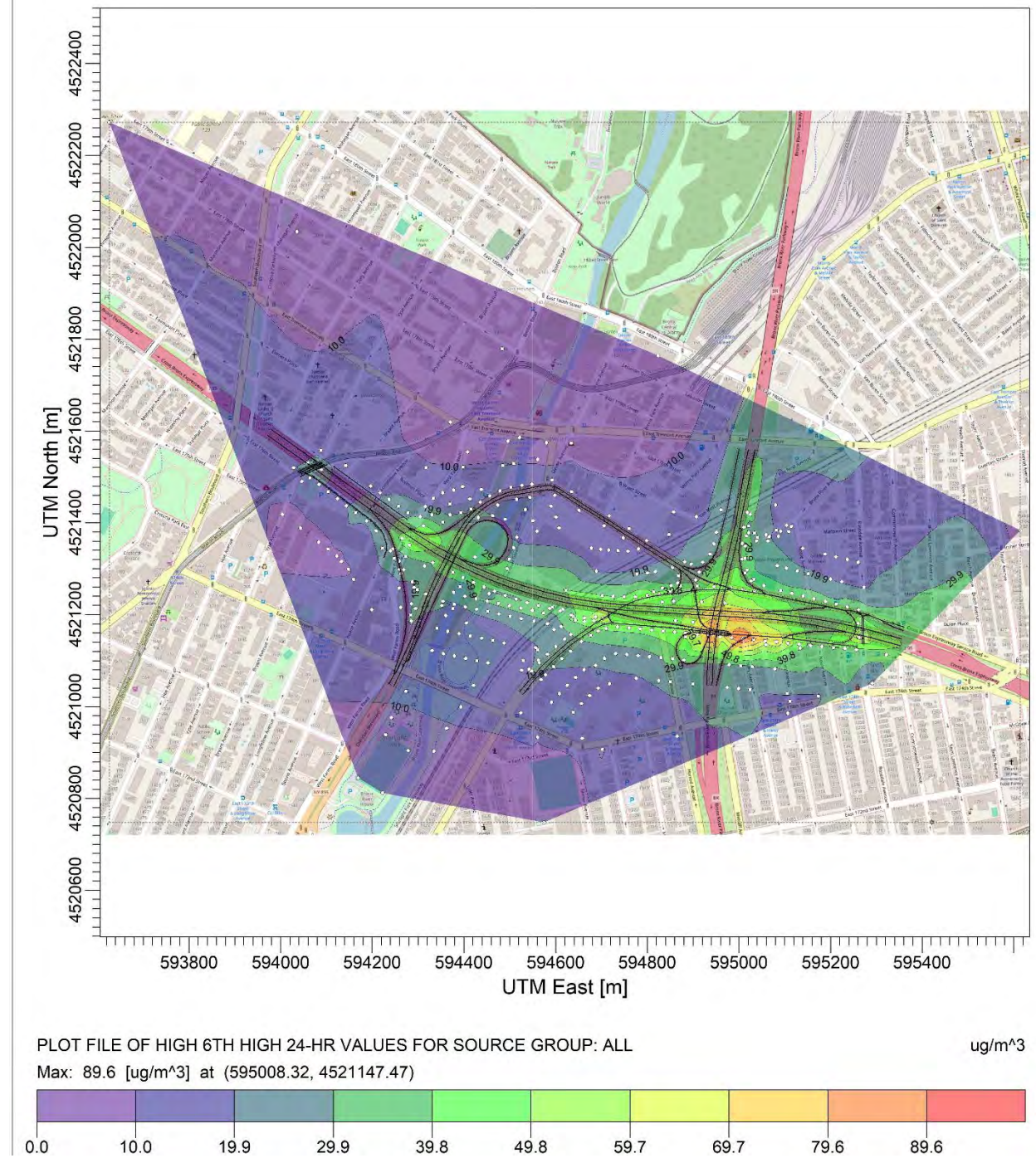
ug/m³

Max: 53.1 [ug/m³] at (594832.32, 4521227.36)



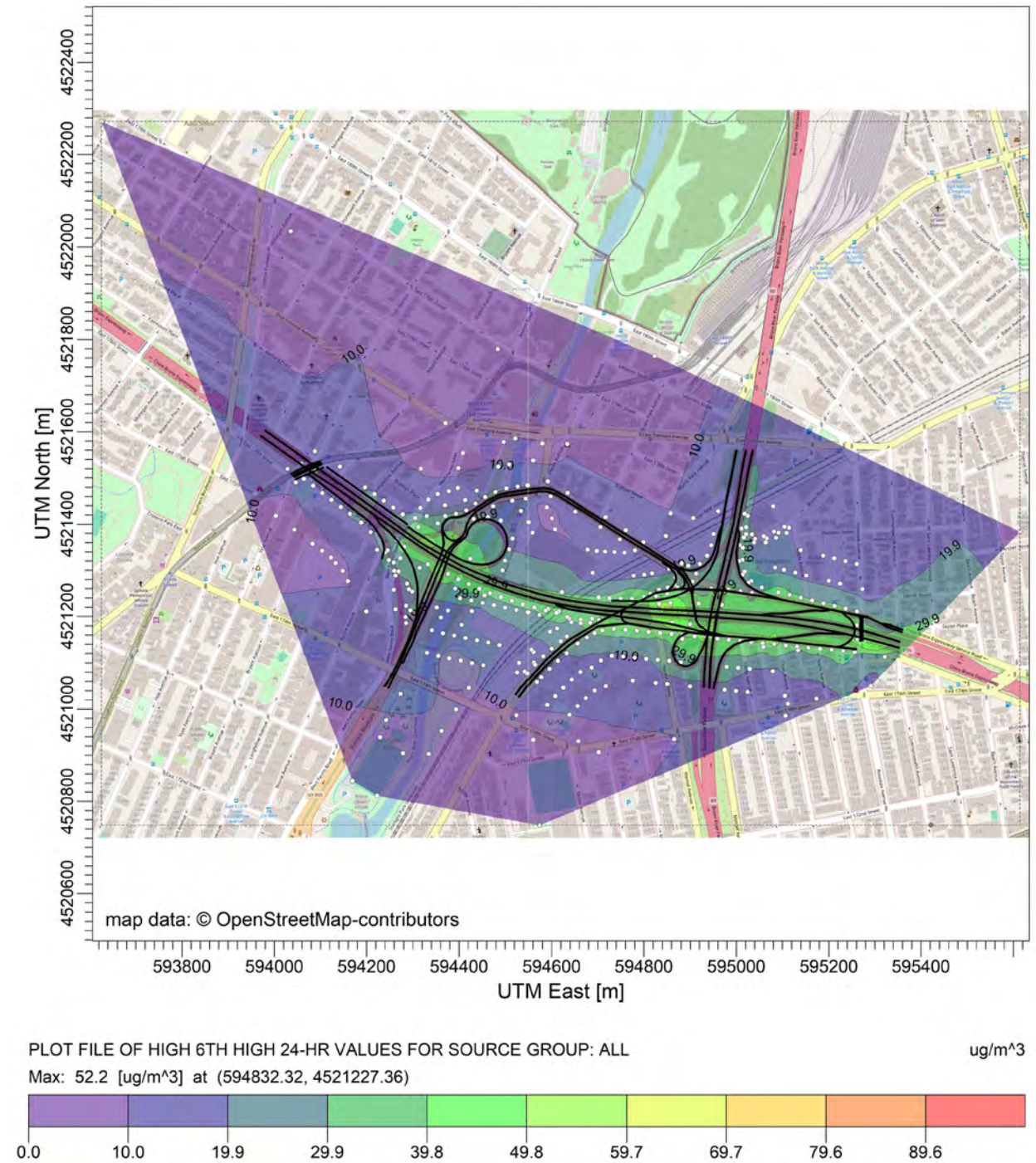
Note: The High 6th High concentration is the sixth highest 24-hour modeled concentration over the five analysis years at each receptor. The High 6th High concentration is used to evaluate compliance with the 24-hour PM₁₀ NAAQS according to the USEPA.

Attachment 4.7: 2050 No Build Alternative PM₁₀ 24-Hour Average Concentrations



Note: The High 6th High concentration is the sixth highest 24-hour modeled concentration over the five analysis years at each receptor. The High 6th High concentration is used to evaluate compliance with the 24-hour PM₁₀ NAAQS according to the USEPA.

Attachment 4.8: 2050 Alternatives A, B, and C PM₁₀ 24-Hour Average Concentrations



Note: The High 6th High concentration is the sixth highest 24-hour modeled concentration over the five analysis years at each receptor. The High 6th High concentration is used to evaluate compliance with the 24-hour PM₁₀ NAAQS according to the USEPA.