HELIX Environmental Planning, Inc.
7578 El Cajon Boulevard
La Mesa, CA 91942
619.462.1515 **tel**
619.462.0552 **fax**
www.**helixepi**.com

April 18, 2018

Mr. Aaron Cook, PE, QSD
David Evans and Associates, Inc.
41951 Remington Avenue, Suite 220
Temecula, CA 92590

Subject: **Lake Elsinore Climate Action Plan (CAP) Consistency Assessment for the Lake Elsinore Honda Project**

Dear Mr. Cook:

HELIX Environmental Planning, Inc. (HELIX) has reviewed the Lake Elsinore Honda Project's (project's) consistency with the City of Lake Elsinore (City) Climate Action Plan (CAP) to determine the project's impacts on cumulative greenhouse gas (GHG) emissions. This letter summarizes the findings of the consistency assessment. In addition, this letter evaluates the potential GHG emission impacts associated with construction and operation of the proposed project.

The project site is located at the northern corner of Collier Avenue and 3rd Street in the City of Lake Elsinore. The project site consists of a 7-acre site on Assessor's Parcel Numbers (APNs) 377-080-053, 377-080-057, and 377-080-079. The General Plan land use designation and city zoning designation is General Commercial.

Project Description

The project proposes a 53,425 square foot (SF) Honda automotive dealership on an undeveloped site that currently consists of three contiguous parcels. As depicted in the Site Plan (Attachment A), the project would construct a single-story, approximately 30-foot high structure which would include showroom displays, sales offices, parts inventories, and automotive repair services. A separate car wash building would be constructed northeast of the main structure, near I-15.

Other features include a large paved area for car sales, car servicing, and parking. The project would contain 465 parking spaces, 244 of which would be for inventory and display. Parking would also incorporate 18 clean air vehicle spaces and 22 bicycle parking spaces; 11 short-term and 11 long-term storage lockers. Three driveways would be constructed, two along Collier Avenue and one located north of the project site. Landscaped areas would be located throughout the site and along the perimeter and would be planted with drought-tolerant species and utilize smart irrigation techniques. Landscaping would include planting approximately 98 trees throughout the project site and would provide shade to the parking area and building. A bioswale with basin vegetation would be located at the northwestern edge of the site. The car wash, a separate building northeast and adjacent to the dealership, would use reclaimed water in its operations. A decorative sidewalk with 6 concrete ramps would be constructed

from Collier Avenue to the showroom entrance and would bisect three landscape areas. Infrastructure and storm drain improvements would occur along Collier Avenue and surrounding and within the property prior to building construction.

CAP Consistency Process

In December 2011, the City adopted a CAP that outlines the actions for City to undertake to achieve its proportional share of state GHG emission reductions to be compliant with Assembly Bill 32 and Executive Order S-3-05 (City 2011a). Appendix D of the CAP includes a project-level CAP consistency worksheet that an applicant may use to demonstrate consistency with the General Plan growth potential and CAP. The purpose of the CAP Worksheet is to, in conjunction with the CAP, provide a streamlined review process for proposed new development projects that are subject to discretionary review and trigger environmental review pursuant to the California Environmental Quality Act (CEQA).

The Worksheet contains measures that are required to be implemented on a project-by-project basis to ensure that the specified emission targets identified in the CAP are achieved. Implementation of the measures would ensure that new development is consistent with CAP strategies toward achieving the identified GHG reduction targets. Projects that are consistent with the CAP, as determined through the use of the Worksheet, may rely on the CAP for the cumulative impacts analysis of GHG emissions. Projects that are not consistent with the CAP must prepare a comprehensive project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the measures in the Worksheet to the extent feasible. Cumulative GHG impacts would be significant for any project that is not consistent with the CAP.

Project Consistency with CAP Worksheet

The project was analyzed for consistency with the Project-Level CAP Consistency Worksheet (see Attachment B for the Worksheet). Information needed to respond to the questions was provided by the project applicant.

If the project is consistent with the land use designation, population and employment projections, and incorporates applicable CAP measures in the project design, then the project would be deemed consistent with the General Plan and CAP. The Worksheet considers the following three questions to determine if a project is consistent with the General Plan growth potential and CAP:

1. *Is the project consistent with the General Plan land use designation?*

2. *Is the project consistent with the General Plan population and employment projections for the site, upon which the CAP modeling is based?*

3. *Does the project incorporate the following CAP measures as binding and enforceable components of the project? Until these measures have been formally adopted by the City and incorporated in to applicable codes, the requirements must be incorporated as mitigation measures applicable to the project (CEQA Guidelines, Section 15183.5(b)(2)).*

Question 1 & 2: Land Use Consistency

1. *Is the project consistent with the General Plan land use designation?*

2. *Is the project consistent with the General Plan population and employment projections for the site, upon which the CAP modeling is based?*

Consistent. The project would be consistent with the General Plan's land use designation General Commercial; uses for the project include an automobile dealership with showroom displays, sales offices, parts inventories, and automotive repair services and a separate car wash.

By demonstrating consistency with the land use designation, the project would also be consistent with the General Plan's projected growth. Further, implementation of the project, an automotive dealership, would not result in substantial population or employment increases. Because the project can respond to Questions 1 and 2 affirmatively, it is consistent with the General Plan growth potential upon which the CAP modeling is based.

Question 3: Incorporation of CAP Measures

After determining consistency with Question 1 and Question 2 of the Worksheet, Question 3 determines a project's consistency with applicable CAP measures.

3. *Does the project incorporate the following CAP measures as binding and enforceable components of the project? Until these measures have been formally adopted by the City and incorporated in to applicable codes, the requirements must be incorporated as mitigation measures applicable to the project (CEQA Guidelines, Section 15183.5(b)(2)).*

A project may demonstrate consistency with the CAP through incorporation of pedestrian and bicycle infrastructure; bicycle and fuel-efficient vehicle parking; tree planting and landscaping; cool roof requirements; energy efficient building standards; energy efficient traffic street and traffic signal lights; indoor water conservation; and construction and demolition waste diversion. The project's conformance with each CAP measure is described below.

T-1.2: Pedestrian Infrastructure

- *Does the project provide sidewalks along new and reconstructed streets?*

- *Does the project provide sidewalks or paths to internally link all uses in a project where applicable?*

- *Does the project provide connections to neighborhood activity centers, major destinations, and transit contiguous to site?*

Consistent. The project proposes to construct a decorative concrete sidewalk that extends in a northeast direction from Collier Avenue to the showroom entrance. The sidewalk would pass through two landscape areas and contain six concrete sidewalk ramps. The project provides a connection for guests and employees to walk from Collier Avenue to the entrance of the dealership where the showroom would be located. The site would be near several transit stops along Collier Avenue, providing easy access to the Riverside Transit Agency routes (RTA), which offers local routes and

alternate transportation for commuters (RTA 2018). This would support mass transit and allow employees and guests to access additional shopping centers, connect to local communities and utilize alternate commuter routes.

T-1.4: BICYCLE INFRASTRUCTURE

- *Where applicable, does the project implement the network of Class I, II and II bikeways, trails and safety features identified in the General Plan, Bike Lane Master Plan, Trails Master Plan and Western Riverside County Non-Motorized Transportation plan?*

- *Does the project, where applicable, provide connections to the network identified in those plans?*

Consistent. A striped bike lane would run parallel to the project site along Collier Avenue. The bike lane would connect to bike lanes along Collier continuing north and on Central Avenue. The bike lane would be an extension to the Class II bikeway system on Collier Avenue which links to various routes within the City Boundary and throughout the Sphere of Influence (City 2011b). As discussed below in *Measure T-1.5*, bicycle parking would be incorporated in the form of bicycle racks and long-term storage lockers which would provide bicycle parking for guests and employees utilizing the Class II Bikeway route. The design of the project would encourage the use of the bikeway system and alternate modes of transportation throughout the City.

T-1.5: BICYCLE PARKING

- *Does new, non-residential development that is anticipated to generate visitor traffic provide permanently anchored bicycle racks within 200 feet of the visitor entrance, readily visible to passers-by, for 5 percent of visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack?*

- *Does the development propose a building with over 10 tenant spaces? If so, does it provide secure bicycle parking for 5 percent of tenant-occupied motorized vehicle parking capacity, with a minimum of one space?*

Consistent. As mentioned above in *Measure T-1.4*, project design incorporates elements to increase bicycling opportunities, consistent with the City's General Plan. The project would include 5 percent short-term and 5 percent long-term bicycle parking of the total parking spaces provided. Short-term bicycle parking would include 11 bicycle parking spaces located at the southeast border of the building surrounded by a landscaped area. In addition, the project would provide 11 long-term bicycle storage lockers. On-site bicycle parking would encourage bicycling opportunities in the area.

T-2.1: DESIGNATED PARKING FOR FUEL-EFFICIENT VEHICLES

- *Does a non-residential development designate 10 percent of its total parking spaces for "Clean Air Vehicles?"*

Potentially Inconsistent. The project is subject to the requirements of the City's Parking Regulations with regard to the number of required parking spaces. This measure requires new non-residential development projects to designate 10 percent of total parking spaces for any combination of low-

emitting, fuel-efficient and carpool/vanpool vehicles, which would be consistent with the 2016 California Green Building Standards Code (CALGreen) Tier 1 (City 2011a and CBSC 2016).

The site plan designates 221 parking spaces for visitor and employee parking. To meet the requirement of this measure, 10 percent or 22 spaces would need to be designated for fuel efficient (clean air) vehicles. The incorporation of clean air vehicle parking would encourage guests and employees to use low-emitting, fuel-efficient, and carpool/vanpool vehicles and would therefore reduce associated mobile GHG emissions. The site plan currently includes 18 spaces designated for electric vehicles (8 percent) and would, therefore, need to allocate four additional spaces to be consistent with this measure (10 percent or a total of 22 spaces).

The project would be required to implement Compliance Measure **CAP-1**, detailed below under Compliance Measures, which would increase Clean Air Vehicle parking spaces to 10 percent.

E-1.1: Tree Planting

- *Does the developer provide a 15-gal non-deciduous, umbrella-form tree per 30 linear feet of boundary length, near buildings, or to shade pavement in parking lots and streets?*

Consistent. The project design includes multiple landscaping areas throughout the project site and the incorporation of approximately 98 trees. The landscaping would line the majority of the project site's perimeter and have several areas throughout the parking lots and along the northwestern and southwestern boundary of the building. The incorporation of trees throughout the project site would provide shade to the parking lot and the building and reduce energy demands and associated GHG emissions.

E-1.2: Cool Roof Requirements

- *Does the new non-residential development use roofing materials that have solar reflectance, thermal emittance or Solar Reflectance Index 3 per CALGreen Tier 1 values?*

Consistent. The project would be designed to have a roof with that keeps the inside of the building cooler. The roof would be installed to have either high solar reflectance or high thermal emittance, or a combination of the two. The building would be kept cooler and result in a net energy savings by reducing energy demand. This measure will amend the Municipal Code to require new non-residential developments to require cool roof requirements. Therefore, the project, by installing cool roof features, would be consistent with *Measure E-1.2*.

E-1.3: Energy Efficient Building Standards

- *Does new construction achieve CALGreen Tier 1 energy efficiency standards[1]?*

Potentially Inconsistent. To comply with current CALGreen Tier 1 energy efficiency standards, new development is required to meet the 2016 Title 24 Energy Efficiency Standard (California Energy Commission [CEC] 2015). In addition, the project would need to meet the following Tier 1 Prerequisites:

  - Energy Performance Outdoor lighting power 90% of Part 6 (A5.203.1.1.1); and
  - Energy Budget 95% or 90% of Part 6 calculated value of allowance (A5.203.1.2.1).

Finally, mandatory and prerequisite requirements must be supplemented with one elective measure. Therefore, the project must incorporate an elective measure, as detailed under Compliance Measure CAP-2, to achieve CALGreen Tier 1 energy efficiency standards.

E-3.2: Energy Efficient Street and Traffic Signal Lights

- *Does the project involve the installation of street or traffic signal lights? If so, are they Low Emitting Diode (LED) lights?*

Not applicable. The project would not involve the installation of public street or traffic signal lights; therefore, this measure does not apply.

E-4.1: Landscaping

- *Does the development comply with the City's AB 1881 Landscaping Ordinance?*

Consistent. The project would include approximately 40,170-square feet of landscaping throughout the project site, including along Collier Avenue, lining the perimeter of the building, throughout the parking lot, and surrounding vehicle displays. As stated above in *Measure E-1.1*, 98 trees would be planted with implementation of the project. The trees would provide shade which would increase pedestrian usability and reduce energy demands of the building. The landscape selection would be chosen from drought tolerant species and would be irrigated using water conservation techniques.

E-4.2: Indoor Water Conservation Requirements

- *Does the development reduce indoor water consumption by 30 percent, consistent with CALGreen Tier 1, Section A5.303.2.3.1?*

Potentially Inconsistent. *Measure E-4.2* requires development projects to reduce indoor water consumption by 30 percent (CAP 2011). Currently, the project is designed to reduce both indoor and outdoor water consumption with the following project design features:

[1] Note that Measure E-1.3 intended the City to adopt an ordinance that requires new construction to exceed the CEC requirements based on the 2008 Energy Efficiency standards. These measures have been updated in 2013 and 2016, requiring greater efficiency with each subsequent update.

- Use of reclaimed water for car wash operations which would conserve water and reduce associated GHG emissions;
- Utilize smart irrigation techniques such as drip irrigation, use of flow and rain sensors, and ensure no off-site run-off; and
- Construct a bioswale with basin vegetation, which would reduce stormwater runoff and improve stormwater quality.

The project would be consistent with 2016 CALGreen mandatory requirements and the following Tier 1 prerequisite would be met:

- Water Reduction Tier 1: 12% savings over the "water use baseline" Table A5.303.2.2 or Meet table A5.303.2.3.1 (A5.303.2.3.1).

Additionally, the project would select one elective, as described in CAP-4, to demonstrate consistency with *Measure E-4.2*.

S-1.4: Construction and Demolition Waste Diversion

- *Is the project accompanied by a waste management plan that demonstrates how 65% of the nonhazardous construction and demolition debris generated at the site will be recycled or salvaged?*

Potentially Inconsistent. The project would be required to recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste under 2016 CALGreen Building Standards Code (CBSC 2016). Currently, the project has not provided a plan detailing how construction and demolition waste would be diverted. The project would be required to create a Construction and Demolition Waste Diversion Plan, Compliance Measure CAP-4, to demonstrate consistency with the CAP.

Compliance Measures

The following measures would be required to ensure consistency with the City's CAP.

CAP-1 **Electric Vehicle Spaces**. The project shall designate at least ten percent of the total employee and visitor four additional parking spaces for Clean Air Vehicles. Parking spaces for Clean Air Vehicles may be any combination of low-emitting, fuel-efficient and carpool/vanpool vehicles. Based on the current site plan, this measure would require 22 spaces out of the total of 221 spaces to be designated for Clean Air Vehicles.

CAP-2 **Energy Efficient Building Standards Tier 1 Electives**. The project shall demonstrate consistency with *Measure E-3.1* by selecting one of the following electives from the 2016 CALGreen Tier 1 Checklist (CBSC 2016):

- On-site renewable energy with documentation (A5.211.1 and A5.211.1.1);
- Green power (A5.211.3);
- Elevators with car lights and fan (A5.212.1.1 and A5.212.1.1.1);

- Escalators with controls (A5.212.1.1 and A5.212.1.4); or
- Steel framing (A5.213.1).

CAP-3 **Indoor Water Conservation Tier 1 Electives**. The project shall demonstrate consistency with *Measure E-4.2* by selecting one of the following electives from the 2016 CALGreen Tier 1 Checklist (CBSC 2016):

- Nonpotable water systems for indoor use (A5.303.2.3.4);
- Appliances and fixtures for commercial application (A5.303.3);
- Nonwater supplied urinals (A5.303.4.1);
- Dual plumbing (A5.303.5);
- Outdoor potable water use (A5.304.2);
- Restoration of areas disturbed by construction (A5.304.6);
- Previously developed sites with exception (A5.304.7);
- Graywater irrigation system (A5.304.8);
- Nonpotable water systems (A5.305.1); or
- Irrigation systems (A5.305.2).

CAP-4 **Construction Waste Management Plan**. The project shall provide a Construction Waste Management Plan which demonstrates how the project would recycle and/or salvage for reuse a minimum of 65% of nonhazardous construction and demolition waste.

Greenhouse Gas Emissions

Methodology

The project's GHG emissions were calculated using the California Emission Estimator Model (CalEEMod), Version 2016.3.2. The emission sources include construction (off-road vehicles), mobile (on-road vehicles), area (landscape maintenance equipment), energy, water and wastewater, and solid waste sources. GHG emissions are estimated in terms of total MT of CO_2e, and the modeling included the applicable measures described above as part of the Project-Level CAP consistency assessment.

Trip generation rates were based on the Traffic Impact Analysis prepared by David Evans and Associates, Inc. (DEA 2018), which estimated 1,487 daily trips generated by the project. A complete listing of the assumptions used in the analysis and model output is provided in Attachment C of this report.

Construction Emissions

The construction analysis included modeling of the projected construction equipment that would be used during each construction activity. Construction activities include site preparation, grading, underground utilities, building construction, paving, and architectural coating. For modeling purposes, it was assumed construction activity would begin in September 2018 and last approximately one year. Construction emissions were amortized over 30 years and added to operational emissions (Association

of Environmental Professionals [AEP] 2010; South Coast Air Quality Management District [SCAQMD] 2009).

As shown in Table 1, *Estimated Construction Emissions*, total GHG emissions associated with construction are estimated at 586 MT CO_2e. Therefore, amortized over 30 years, the proposed construction activities would contribute approximately 20 MT CO_2e emissions per year.

Table 1
ESTIMATED CONSTRUCTION EMISSIONS

Source	Emissions (MT CO_2e)
Site Preparation	18
Grading	208
Underground Utilities	3
Building Construction	329
Paving	22
Architectural Coating	3
TOTAL	**586**
Amortized Construction Emissions[1]	20

Source: CalEEMod (output data is provided in Attachment C)
[1] Construction emissions are amortized over 30 years.

Operational Emissions

Operational sources of GHG emissions include: (1) energy use (electricity and natural gas); (2) area sources (landscaping equipment); (3) vehicle use; (4) solid waste generation; and (5) water conveyance and treatment.

As shown in Table 2, *Estimated Project Annual Greenhouse Gas Emissions*, with reductions associated with implementation of the project design features, the project would result in GHG emissions of 1,753 MT CO_2e per year.

Table 2
TOTAL ESTIMATED OPERATIONAL GHG EMISSIONS

Emission Sources	Emissions (MT CO_2e)
	2019
Area Sources	<0.5
Energy Sources	460
Vehicular (Mobile) Sources	1,144
Solid Waste Sources	77
Water Sources	54
Operational Subtotal	*1,734*
Construction (Annualized over 30 years)	20
TOTAL OPERATIONAL EMISSIONS	**1,753**

Source: CalEEMod output data is provided in Attachment C
Note: Totals may not add up exactly due to rounding

Conclusion

As described above, the project would be consistent with the General Plan's land use designation General Commercial and would not trigger a substantial increase to population or employment. Therefore, the project is consistent with the General Plan growth potential and CAP.

The project would be required to implement Compliance Measures CAP-1, CAP-2, CAP-3, and CAP-4. With incorporation of these compliance measures, the project would be consistent with the applicable CAP measures identified in Question 3 of the Worksheet and, therefore, the CAP, and the project's incremental contribution to a cumulative GHG emissions effect would not be cumulatively considerable.

In addition, the project would generate approximately 1,753 MT CO_2e per year from construction and operational emissions, taking into account the applicable measures that the project would incorporate from CAP compliance.

Sincerely,

Chloe Hood
Air Quality Specialist

Joanne M. Dramko, AICP
Senior Air Quality Specialist

Attachment A: Site Plan
Attachment B: Project Level CAP Consistency Worksheet
Attachment C: CalEEMod Output

References

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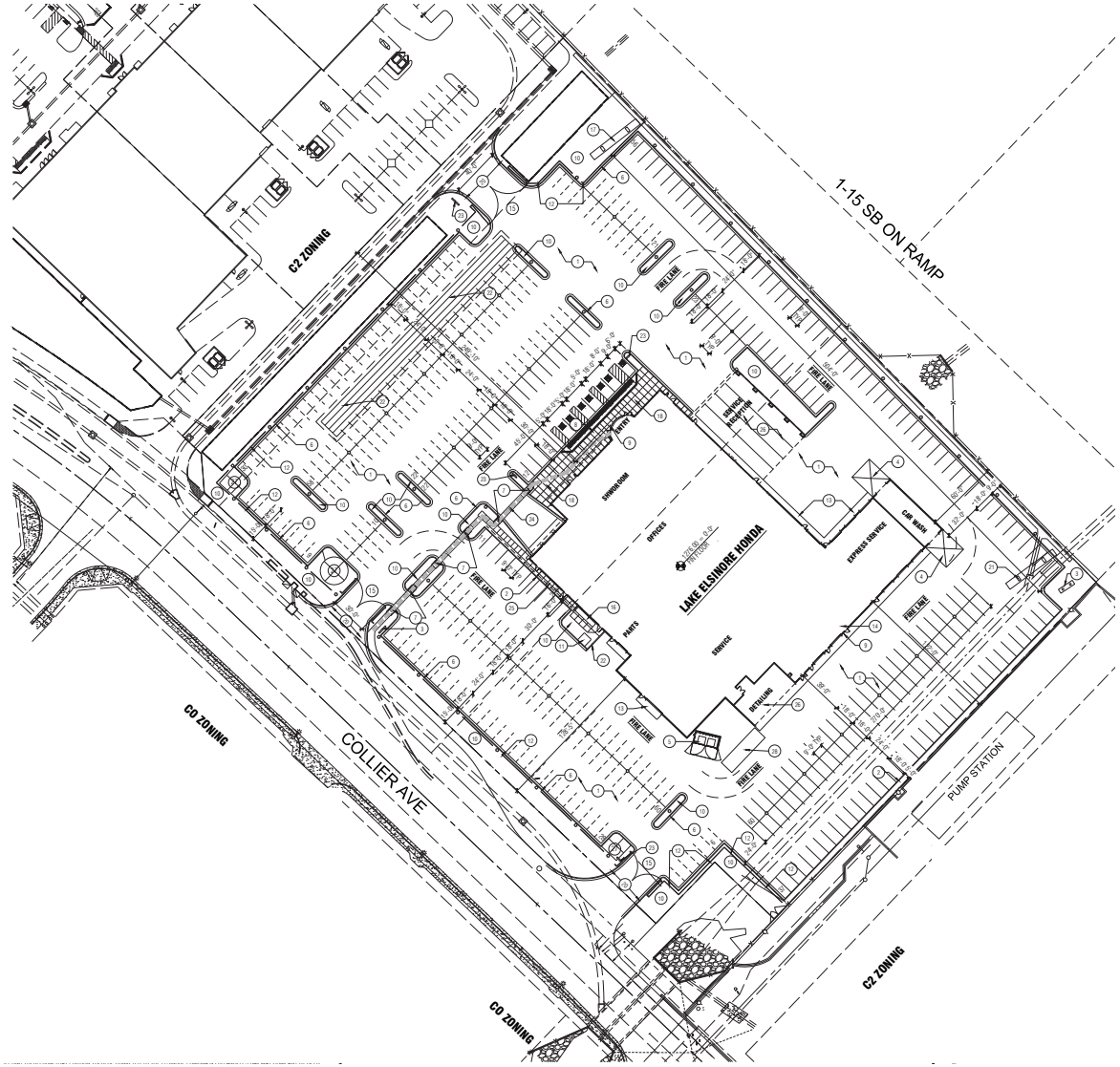
Attachment A

Site Plan



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Source: David Evans and Associates, 2018

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Site Plan

Figure 1

Attachment B

Project Level CAP Consistency Worksheet

Appendix D: Project-Level CAP Consistency Worksheet

The City of Lake Elsinore Climate Action Plan (CAP) is a comprehensive and program-level document to ensure that the City reduces community-wide GHG emissions consistent with AB 32 and Executive Order S-3-05. Once the CAP is adopted following environmental review, later projects consistent with the General Plan growth potential and CAP may tier from and/or incorporate the CAP by reference in their cumulative GHG impact analyses. This appendix is a project level worksheet that an applicant may use to demonstrate consistency with the General Plan growth potential and CAP. In addition, project-level GHG emissions impact analyses can utilize the California Emissions Estimator Model (CalEEMod), or other appropriate software, to determine compliance[1].

1. Is the project consistent with the General Plan land use designation?

2. Is the project consistent with the General Plan population and employment projections for the site, upon which the CAP modeling is based?

3. Does the project incorporate the following CAP measures as binding and enforceable components of the project? Until these measures have been formally adopted by the City and incorporated in to applicable codes, the requirements must be incorporated as mitigation measures applicable to the project (CEQA Guidelines, Section 15183.5(b)(2)).

T-1.2 Pedestrian Infrastructure

- Does the project provide sidewalks along new and reconstructed streets?
- Does the project provide sidewalks or paths to internally link all uses in a project where applicable?
- Does the project provide connections to neighborhood activity centers, major destinations, and transit contiguous to site?

T-1.4 Bicycle Infrastructure

- Where applicable, does the project implement the network of Class I, II and II bikeways, trails and safety features identified in the General Plan, Bike Lane Master Plan, Trails Master Plan and Western Riverside County Non-Motorized Transportation plan?
- Does the project, where applicable, provide connections to the network identified in those plans?

[1] CalEEMod was created by the South Coast Air Quality Management District (SCAQMD) in collaboration with the other California Air Districts to provide an accurate and comprehensive tool for quantifying GHG impacts from land use projects throughout California. This model is available for public download on CalEEMod's website located at http://www.caleemod.com/.

T-1.5 Bicycle Parking

- Does new, non-residential development that is anticipated to generate visitor traffic provide permanently anchored bicycle racks within 200 feet of the visitor entrance, readily visible to passers-by, for 5% of visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack?
- Does the development propose a building with over 10 tenant spaces? If so, does it provide secure bicycle parking for 5% of tenant-occupied motorized vehicle parking capacity, with a minimum of one space?

T-2.1 Designated Parking for Fuel-Efficient Vehicles

- Does a non-residential development designate 10% of its total parking spaces for "Clean Air Vehicles?"

E-1.1 Tree Planting

- Does the developer provide a 15-gal non-deciduous, umbrella-form tree per 30 linear feet of boundary length, near buildings, or to shade pavement in parking lots and streets?

E-1.2 Cool Roof Requirements

- Does the new non-residential development use roofing materials having solar reflectance, thermal emittance or Solar Reflectance Index 3 per CalGreen Tier 1 values?

E-1.3 Energy Efficient Building Standards

- Does new construction achieve CalGreen Tier 1 energy efficiency standards?

E-3.2 Energy Efficient Street and Traffic Signal Lights

- Does the project involve the installation of street or traffic signal lights? If so, are they Low Emitting Diode (LED) lights?

E-4.1 Landscaping

- Does the development comply with the City's AB 1881 Landscaping Ordinance?

E-4.2 Indoor Water Conservation Requirements

- Does the development reduce indoor water consumption by 30%, consistent with CalGreen Tier 1, Section A5.303.2.3.1?

S-1.4: Construction and Demolition Waste Diversion

- Is the project accompanied by a waste management plan that demonstrates how 65% of the nonhazardous construction and demolition debris generated at the site will be recycled or salvaged?

If it is determined that a proposed project does not fall within the assumptions of the General Plan and/or is not consistent with the CAP, incorporating all applicable measures as binding and enforceable components of the project, further CEQA analysis would be required. The applicant must demonstrate to the City's satisfaction how the project will achieve its share of the established targets through the use of alternative design components and/or operational protocols to achieve equivalent reductions, or use permanent, verifiable and enforceable offsets that would result in emissions reductions in the City to achieve remaining reductions. The project would also be required to demonstrate that it would not substantially interfere with implementation of the CAP strategies or measures.

Attachment C

CalEEMod Output

DEA-08 Lake Elsinore Honda

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	53.43	1000sqft	1.23	53,425.00	0
Parking Lot	465.00	Space	4.18	186,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2019
Utility Company	Sierra Pacific Resources				
CO2 Intensity (lb/MWhr)	1328.16	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Site Prep: 9/2018
Grading: 10/2018
Trenching: 12/2018
Building: 2/2019
Operation/completion: 9/2019

Off-road Equipment - Scrapers

Off-road Equipment - Cranes and forklifts

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading -

Architectural Coating - Assume 50 g/L

Vehicle Trips - David Evans and Associates Inc. TIA: 1,487 daily trips

Area Coating - Assume 50 g/L

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation - 50 g/L already accounted for during construction and operation

Water Mitigation - Low flow fixtures, use of reclaimed water in car wash, use of water conservation irrigation (drip, flow and rain sensors, ensuring no run-off) 20% indoor and outdoor water reduction per CALGreen Standards

Waste Mitigation - Consistent with AB-341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50

tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	230.00	140.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	PhaseEndDate	12/6/2019	9/30/2019
tblConstructionPhase	PhaseEndDate	10/11/2019	8/15/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	9/12/2019
tblConstructionPhase	PhaseEndDate	10/26/2018	9/28/2018
tblConstructionPhase	PhaseStartDate	11/9/2019	9/13/2019
tblConstructionPhase	PhaseStartDate	11/24/2018	2/1/2019
tblConstructionPhase	PhaseStartDate	10/27/2018	10/1/2018
tblConstructionPhase	PhaseStartDate	10/12/2019	8/16/2019
tblConstructionPhase	PhaseStartDate	10/13/2018	9/17/2018
tblGrading	MaterialExported	0.00	16.00
tblGrading	MaterialImported	0.00	20,200.00
tblOffRoadEquipment	LoadFactor	0.48	0.48
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	98.00
tblVehicleTrips	ST_TR	23.72	27.83
tblVehicleTrips	SU_TR	11.88	27.83
tblVehicleTrips	WD_TR	23.72	27.83

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.1376	1.8074	0.8866	2.4500e-003	0.2926	0.0697	0.3623	0.1293	0.0642	0.1934	0.0000	228.6890	228.6890	0.0469	0.0000	229.8610
2019	0.4005	2.3692	1.8475	3.9500e-003	0.0936	0.1192	0.2128	0.0252	0.1117	0.1369	0.0000	354.4848	354.4848	0.0651	0.0000	356.1133
Maximum	**0.4005**	**2.3692**	**1.8475**	**3.9500e-003**	**0.2926**	**0.1192**	**0.3623**	**0.1293**	**0.1117**	**0.1934**	**0.0000**	**354.4848**	**354.4848**	**0.0651**	**0.0000**	**356.1133**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.1376	1.8074	0.8866	2.4500e-003	0.1468	0.0697	0.2165	0.0623	0.0642	0.1265	0.0000	228.6889	228.6889	0.0469	0.0000	229.8608
2019	0.4005	2.3692	1.8475	3.9500e-003	0.0936	0.1192	0.2128	0.0252	0.1117	0.1369	0.0000	354.4846	354.4846	0.0651	0.0000	356.1131
Maximum	**0.4005**	**2.3692**	**1.8475**	**3.9500e-003**	**0.1468**	**0.1192**	**0.2165**	**0.0623**	**0.1117**	**0.1369**	**0.0000**	**354.4846**	**354.4846**	**0.0651**	**0.0000**	**356.1131**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**37.76**	**0.00**	**25.35**	**43.35**	**0.00**	**20.27**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-17-2018	12-16-2018	1.8298	1.8298
2	12-17-2018	3-16-2019	0.5816	0.5816
3	3-17-2019	6-16-2019	1.1352	1.1352
4	6-17-2019	9-16-2019	0.9500	0.9500
5	9-17-2019	9-30-2019	0.1253	0.1253
		Highest	1.8298	1.8298

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2194	6.0000e-005	6.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0129	0.0129	3.0000e-005	0.0000	0.0137
Energy	9.3600e-003	0.0851	0.0715	5.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	458.5299	458.5299	9.7600e-003	3.3500e-003	459.7727
Mobile	0.4265	3.2024	3.6172	0.0123	0.7607	0.0132	0.7738	0.2039	0.0124	0.2163	0.0000	1,141.2008	1,141.2008	0.0956	0.0000	1,143.5907
Waste						0.0000	0.0000		0.0000	0.0000	41.4223	0.0000	41.4223	2.4480	0.0000	102.6221
Water						0.0000	0.0000		0.0000	0.0000	1.5945	60.0417	61.6362	0.1651	4.1400e-003	66.9962
Total	**0.6552**	**3.2876**	**3.6953**	**0.0128**	**0.7607**	**0.0196**	**0.7803**	**0.2039**	**0.0189**	**0.2228**	**43.0168**	**1,659.7853**	**1,702.8021**	**2.7185**	**7.4900e-003**	**1,772.9955**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2194	6.0000e-005	6.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0129	0.0129	3.0000e-005	0.0000	0.0137
Energy	9.3600e-003	0.0851	0.0715	5.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	458.5299	458.5299	9.7600e-003	3.3500e-003	459.7727
Mobile	0.4265	3.2024	3.6172	0.0123	0.7607	0.0132	0.7738	0.2039	0.0124	0.2163	0.0000	1,141.2008	1,141.2008	0.0956	0.0000	1,143.5907
Waste						0.0000	0.0000		0.0000	0.0000	31.0668	0.0000	31.0668	1.8360	0.0000	76.9666
Water						0.0000	0.0000		0.0000	0.0000	1.2756	48.0334	49.3089	0.1321	3.3100e-003	53.5970
Total	**0.6552**	**3.2876**	**3.6953**	**0.0128**	**0.7607**	**0.0196**	**0.7803**	**0.2039**	**0.0189**	**0.2228**	**32.3423**	**1,647.7769**	**1,680.1193**	**2.0734**	**6.6600e-003**	**1,733.9407**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**24.81**	**0.72**	**1.33**	**23.73**	**11.08**	**2.20**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	69.3840
Total	**69.3840**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/17/2018	9/28/2018	5	10	
2	Grading	Grading	10/1/2018	11/23/2018	5	40	
3	Building Construction	Building Construction	2/1/2019	8/15/2019	5	140	
4	Paving	Paving	8/16/2019	9/12/2019	5	20	
5	Architectural Coating	Architectural Coating	9/13/2019	9/30/2019	5	12	
6	Underground Utilities	Trenching	12/1/2018	1/25/2019	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 100

Acres of Paving: 4.18

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 80,138; Non-Residential Outdoor: 26,713; Striped Parking Area: 11,160 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Scrapers	2	8.00	367	0.48
Underground Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Underground Utilities	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,527.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	95.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3800	17.3800	5.4100e-003	0.0000	17.5152
Total	**0.0228**	**0.2410**	**0.1124**	**1.9000e-004**	**0.0903**	**0.0129**	**0.1032**	**0.0497**	**0.0119**	**0.0615**	**0.0000**	**17.3800**	**17.3800**	**5.4100e-003**	**0.0000**	**17.5152**

3.2 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.7000e-004	3.8100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8816	0.8816	3.0000e-005	0.0000	0.8822
Total	**4.9000e-004**	**3.7000e-004**	**3.8100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8816**	**0.8816**	**3.0000e-005**	**0.0000**	**0.8822**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3799	17.3799	5.4100e-003	0.0000	17.5152
Total	**0.0228**	**0.2410**	**0.1124**	**1.9000e-004**	**0.0407**	**0.0129**	**0.0535**	**0.0223**	**0.0119**	**0.0342**	**0.0000**	**17.3799**	**17.3799**	**5.4100e-003**	**0.0000**	**17.5152**

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.7000e-004	3.8100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8816	0.8816	3.0000e-005	0.0000	0.8822
Total	**4.9000e-004**	**3.7000e-004**	**3.8100e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8816**	**0.8816**	**3.0000e-005**	**0.0000**	**0.8822**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1748	0.0000	0.1748	0.0721	0.0000	0.0721	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1840	0.6848	1.2000e-003		0.0535	0.0535		0.0492	0.0492	0.0000	109.8214	109.8214	0.0342	0.0000	110.6761
Total	**0.1016**	**1.1840**	**0.6848**	**1.2000e-003**	**0.1748**	**0.0535**	**0.2283**	**0.0721**	**0.0492**	**0.1214**	**0.0000**	**109.8214**	**109.8214**	**0.0342**	**0.0000**	**110.6761**

3.3 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.6100e-003	0.3529	0.0430	9.7000e-004	0.0218	1.3000e-003	0.0231	5.9800e-003	1.2400e-003	7.2300e-003	0.0000	93.4122	93.4122	6.2000e-003	0.0000	93.5672
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1700e-003	1.6400e-003	0.0169	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.1900e-003	0.0000	3.9181	3.9181	1.2000e-004	0.0000	3.9211
Total	**9.7800e-003**	**0.3545**	**0.0599**	**1.0100e-003**	**0.0262**	**1.3300e-003**	**0.0275**	**7.1500e-003**	**1.2700e-003**	**8.4200e-003**	**0.0000**	**97.3303**	**97.3303**	**6.3200e-003**	**0.0000**	**97.4883**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0786	0.0000	0.0786	0.0325	0.0000	0.0325	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1016	1.1840	0.6848	1.2000e-003		0.0535	0.0535		0.0492	0.0492	0.0000	109.8213	109.8213	0.0342	0.0000	110.6760
Total	**0.1016**	**1.1840**	**0.6848**	**1.2000e-003**	**0.0786**	**0.0535**	**0.1322**	**0.0325**	**0.0492**	**0.0817**	**0.0000**	**109.8213**	**109.8213**	**0.0342**	**0.0000**	**110.6760**

3.3 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.6100e-003	0.3529	0.0430	9.7000e-004	0.0218	1.3000e-003	0.0231	5.9800e-003	1.2400e-003	7.2300e-003	0.0000	93.4122	93.4122	6.2000e-003	0.0000	93.5672
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1700e-003	1.6400e-003	0.0169	4.0000e-005	4.4000e-003	3.0000e-005	4.4200e-003	1.1700e-003	3.0000e-005	1.1900e-003	0.0000	3.9181	3.9181	1.2000e-004	0.0000	3.9211
Total	**9.7800e-003**	**0.3545**	**0.0599**	**1.0100e-003**	**0.0262**	**1.3300e-003**	**0.0275**	**7.1500e-003**	**1.2700e-003**	**8.4200e-003**	**0.0000**	**97.3303**	**97.3303**	**6.3200e-003**	**0.0000**	**97.4883**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1962	1.8434	1.3419	2.2400e-003		0.1059	0.1059		0.0992	0.0992	0.0000	196.3123	196.3123	0.0501	0.0000	197.5656
Total	**0.1962**	**1.8434**	**1.3419**	**2.2400e-003**		**0.1059**	**0.1059**		**0.0992**	**0.0992**	**0.0000**	**196.3123**	**196.3123**	**0.0501**	**0.0000**	**197.5656**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2500e-003	0.3151	0.0627	7.1000e-004	0.0172	2.3700e-003	0.0196	4.9800e-003	2.2700e-003	7.2500e-003	0.0000	67.5991	67.5991	5.7600e-003	0.0000	67.7432
Worker	0.0330	0.0241	0.2523	7.0000e-004	0.0731	4.6000e-004	0.0736	0.0194	4.2000e-004	0.0198	0.0000	63.1489	63.1489	1.7300e-003	0.0000	63.1921
Total	**0.0423**	**0.3391**	**0.3150**	**1.4100e-003**	**0.0903**	**2.8300e-003**	**0.0932**	**0.0244**	**2.6900e-003**	**0.0271**	**0.0000**	**130.7481**	**130.7481**	**7.4900e-003**	**0.0000**	**130.9353**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1962	1.8434	1.3419	2.2400e-003		0.1059	0.1059		0.0992	0.0992	0.0000	196.3121	196.3121	0.0501	0.0000	197.5654
Total	**0.1962**	**1.8434**	**1.3419**	**2.2400e-003**		**0.1059**	**0.1059**		**0.0992**	**0.0992**	**0.0000**	**196.3121**	**196.3121**	**0.0501**	**0.0000**	**197.5654**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2500e-003	0.3151	0.0627	7.1000e-004	0.0172	2.3700e-003	0.0196	4.9800e-003	2.2700e-003	7.2500e-003	0.0000	67.5991	67.5991	5.7600e-003	0.0000	67.7432
Worker	0.0330	0.0241	0.2523	7.0000e-004	0.0731	4.6000e-004	0.0736	0.0194	4.2000e-004	0.0198	0.0000	63.1489	63.1489	1.7300e-003	0.0000	63.1921
Total	**0.0423**	**0.3391**	**0.3150**	**1.4100e-003**	**0.0903**	**2.8300e-003**	**0.0932**	**0.0244**	**2.6900e-003**	**0.0271**	**0.0000**	**130.7481**	**130.7481**	**7.4900e-003**	**0.0000**	**130.9353**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	5.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0200**	**0.1524**	**0.1467**	**2.3000e-004**		**8.2500e-003**	**8.2500e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**20.4752**	**20.4752**	**6.4800e-003**	**0.0000**	**20.6371**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.4000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4244	1.4244	4.0000e-005	0.0000	1.4254
Total	**7.5000e-004**	**5.4000e-004**	**5.6900e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4244**	**1.4244**	**4.0000e-005**	**0.0000**	**1.4254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	5.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0200**	**0.1524**	**0.1467**	**2.3000e-004**		**8.2500e-003**	**8.2500e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**20.4752**	**20.4752**	**6.4800e-003**	**0.0000**	**20.6371**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.4000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4244	1.4244	4.0000e-005	0.0000	1.4254
Total	**7.5000e-004**	**5.4000e-004**	**5.6900e-003**	**2.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.4244**	**1.4244**	**4.0000e-005**	**0.0000**	**1.4254**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-003	0.0110	0.0111	2.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	1.5320	1.5320	1.3000e-004	0.0000	1.5352
Total	**0.1384**	**0.0110**	**0.0111**	**2.0000e-005**		**7.7000e-004**	**7.7000e-004**		**7.7000e-004**	**7.7000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.3000e-004**	**0.0000**	**1.5352**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.1000e-004	4.3300e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0826	1.0826	3.0000e-005	0.0000	1.0833
Total	**5.7000e-004**	**4.1000e-004**	**4.3300e-003**	**1.0000e-005**	**1.2500e-003**	**1.0000e-005**	**1.2600e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.0826**	**1.0826**	**3.0000e-005**	**0.0000**	**1.0833**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-003	0.0110	0.0111	2.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	1.5320	1.5320	1.3000e-004	0.0000	1.5352
Total	**0.1384**	**0.0110**	**0.0111**	**2.0000e-005**		**7.7000e-004**	**7.7000e-004**		**7.7000e-004**	**7.7000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.3000e-004**	**0.0000**	**1.5352**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.1000e-004	4.3300e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0826	1.0826	3.0000e-005	0.0000	1.0833
Total	**5.7000e-004**	**4.1000e-004**	**4.3300e-003**	**1.0000e-005**	**1.2500e-003**	**1.0000e-005**	**1.2600e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.0826**	**1.0826**	**3.0000e-005**	**0.0000**	**1.0833**

3.7 Underground Utilities - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7800e-003	0.0275	0.0244	3.0000e-005		1.9500e-003	1.9500e-003		1.7900e-003	1.7900e-003	0.0000	2.9673	2.9673	9.2000e-004	0.0000	2.9903
Total	**2.7800e-003**	**0.0275**	**0.0244**	**3.0000e-005**		**1.9500e-003**	**1.9500e-003**		**1.7900e-003**	**1.7900e-003**	**0.0000**	**2.9673**	**2.9673**	**9.2000e-004**	**0.0000**	**2.9903**

3.7 Underground Utilities - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.3000e-004	1.3300e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3086	0.3086	1.0000e-005	0.0000	0.3088
Total	**1.7000e-004**	**1.3000e-004**	**1.3300e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3086**	**0.3086**	**1.0000e-005**	**0.0000**	**0.3088**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7800e-003	0.0275	0.0244	3.0000e-005		1.9500e-003	1.9500e-003		1.7900e-003	1.7900e-003	0.0000	2.9673	2.9673	9.2000e-004	0.0000	2.9903
Total	**2.7800e-003**	**0.0275**	**0.0244**	**3.0000e-005**		**1.9500e-003**	**1.9500e-003**		**1.7900e-003**	**1.7900e-003**	**0.0000**	**2.9673**	**2.9673**	**9.2000e-004**	**0.0000**	**2.9903**

3.7 Underground Utilities - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.3000e-004	1.3300e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3086	0.3086	1.0000e-005	0.0000	0.3088
Total	**1.7000e-004**	**1.3000e-004**	**1.3300e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.5000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3086**	**0.3086**	**1.0000e-005**	**0.0000**	**0.3088**

3.7 Underground Utilities - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2000e-003	0.0221	0.0218	3.0000e-005		1.4800e-003	1.4800e-003		1.3600e-003	1.3600e-003	0.0000	2.6397	2.6397	8.4000e-004	0.0000	2.6606
Total	**2.2000e-003**	**0.0221**	**0.0218**	**3.0000e-005**		**1.4800e-003**	**1.4800e-003**		**1.3600e-003**	**1.3600e-003**	**0.0000**	**2.6397**	**2.6397**	**8.4000e-004**	**0.0000**	**2.6606**

3.7 Underground Utilities - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0800e-003	0.0000	3.1000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2706	0.2706	1.0000e-005	0.0000	0.2708
Total	**1.4000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**3.2000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2706**	**0.2706**	**1.0000e-005**	**0.0000**	**0.2708**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2000e-003	0.0221	0.0218	3.0000e-005		1.4800e-003	1.4800e-003		1.3600e-003	1.3600e-003	0.0000	2.6397	2.6397	8.4000e-004	0.0000	2.6606
Total	**2.2000e-003**	**0.0221**	**0.0218**	**3.0000e-005**		**1.4800e-003**	**1.4800e-003**		**1.3600e-003**	**1.3600e-003**	**0.0000**	**2.6397**	**2.6397**	**8.4000e-004**	**0.0000**	**2.6606**

3.7 Underground Utilities - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.0800e-003	0.0000	3.1000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2706	0.2706	1.0000e-005	0.0000	0.2708
Total	**1.4000e-004**	**1.0000e-004**	**1.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**3.2000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2706**	**0.2706**	**1.0000e-005**	**0.0000**	**0.2708**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4265	3.2024	3.6172	0.0123	0.7607	0.0132	0.7738	0.2039	0.0124	0.2163	0.0000	1,141.2008	1,141.2008	0.0956	0.0000	1,143.5907
Unmitigated	0.4265	3.2024	3.6172	0.0123	0.7607	0.0132	0.7738	0.2039	0.0124	0.2163	0.0000	1,141.2008	1,141.2008	0.0956	0.0000	1,143.5907

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	1,487.00	1,487.00	1487.00	1,991,914	1,991,914
Parking Lot	0.00	0.00	0.00		
Total	1,487.00	1,487.00	1,487.00	1,991,914	1,991,914

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.533383	0.039495	0.183627	0.126156	0.018688	0.005561	0.017029	0.066607	0.001345	0.001247	0.004677	0.000974	0.001211
Parking Lot	0.533383	0.039495	0.183627	0.126156	0.018688	0.005561	0.017029	0.066607	0.001345	0.001247	0.004677	0.000974	0.001211

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	365.9022	365.9022	7.9900e-003	1.6500e-003	366.5945
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	365.9022	365.9022	7.9900e-003	1.6500e-003	366.5945
NaturalGas Mitigated	9.3600e-003	0.0851	0.0715	5.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	92.6277	92.6277	1.7800e-003	1.7000e-003	93.1782
NaturalGas Unmitigated	9.3600e-003	0.0851	0.0715	5.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	92.6277	92.6277	1.7800e-003	1.7000e-003	93.1782

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	1.73578e+006	9.3600e-003	0.0851	0.0715	5.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	92.6277	92.6277	1.7800e-003	1.7000e-003	93.1782
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**9.3600e-003**	**0.0851**	**0.0715**	**5.1000e-004**		**6.4700e-003**	**6.4700e-003**		**6.4700e-003**	**6.4700e-003**	**0.0000**	**92.6277**	**92.6277**	**1.7800e-003**	**1.7000e-003**	**93.1782**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	1.73578e+006	9.3600e-003	0.0851	0.0715	5.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	92.6277	92.6277	1.7800e-003	1.7000e-003	93.1782
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**9.3600e-003**	**0.0851**	**0.0715**	**5.1000e-004**		**6.4700e-003**	**6.4700e-003**		**6.4700e-003**	**6.4700e-003**	**0.0000**	**92.6277**	**92.6277**	**1.7800e-003**	**1.7000e-003**	**93.1782**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	542264	326.6831	7.1300e-003	1.4800e-003	327.3013
Parking Lot	65100	39.2191	8.6000e-004	1.8000e-004	39.2933
Total		**365.9022**	**7.9900e-003**	**1.6600e-003**	**366.5945**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	542264	326.6831	7.1300e-003	1.4800e-003	327.3013
Parking Lot	65100	39.2191	8.6000e-004	1.8000e-004	39.2933
Total		**365.9022**	**7.9900e-003**	**1.6600e-003**	**366.5945**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2194	6.0000e-005	6.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0129	0.0129	3.0000e-005	0.0000	0.0137
Unmitigated	0.2194	6.0000e-005	6.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0129	0.0129	3.0000e-005	0.0000	0.0137

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2051					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.3000e-004	6.0000e-005	6.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0129	0.0129	3.0000e-005	0.0000	0.0137
Total	**0.2194**	**6.0000e-005**	**6.6800e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0129**	**0.0129**	**3.0000e-005**	**0.0000**	**0.0137**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2051					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.3000e-004	6.0000e-005	6.6800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0129	0.0129	3.0000e-005	0.0000	0.0137
Total	**0.2194**	**6.0000e-005**	**6.6800e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0129**	**0.0129**	**3.0000e-005**	**0.0000**	**0.0137**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.3089	0.1321	3.3100e-003	53.5970
Unmitigated	61.6362	0.1651	4.1400e-003	66.9962

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	5.02581 / 3.08034	61.6362	0.1651	4.1400e-003	66.9962
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**61.6362**	**0.1651**	**4.1400e-003**	**66.9962**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	4.02065 / 2.46427	49.3089	0.1321	3.3100e-003	53.5970
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**49.3089**	**0.1321**	**3.3100e-003**	**53.5970**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.0668	1.8360	0.0000	76.9666
Unmitigated	41.4223	2.4480	0.0000	102.6221

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	204.06	41.4223	2.4480	0.0000	102.6221
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**41.4223**	**2.4480**	**0.0000**	**102.6221**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	153.045	31.0668	1.8360	0.0000	76.9666
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**31.0668**	**1.8360**	**0.0000**	**76.9666**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	69.3840	0.0000	0.0000	69.3840

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	98	69.3840	0.0000	0.0000	69.3840
Total		**69.3840**	**0.0000**	**0.0000**	**69.3840**