California State University

California State University, Channel Islands Campus Master Plan

Addendum Final Environmental Impact Report

Student Housing Phase 3 - Santa Rosa Village

rincon

September 2014

Environmental Scientists Planners Engineers

Addendum to the
Final Environmental Impact Report
for the
California State University, Channel Islands
Campus Master Plan

Student Housing Phase 3 – Santa Rosa Village

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September 2014

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California State University, Channel Islands
Campus Master Plan
Addendum to the Final EIR for the
Student Housing Phase 3 – Santa Rosa Village Project

Table of Contents

Page

List of Plates

Appendices

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INTRODUCTION

This document is an Addendum to the California State University, Channel Islands (CSUCI) Master Plan Final Environmental Impact Report (SCH# 98021053).

In accordance with Section 15164 of the State CEQA Guidelines, the Lead Agency shall prepare an Addendum to an EIR if some changes or additions are necessary that will not have significant new impacts or substantially increase previously identified significant impacts. Specifically, the Guidelines state:

- *The lead agency or responsible agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred (Section 15164 (a));*
- *An addendum need not be circulated for public review but can be included in or attached to the final EIR or adopted negative declaration (Section 15164 (c));*
- *The decision-making body shall consider the addendum with the final EIR or adopted negative declaration prior to making a decision on the project (Section 15164 (d)); and*
- *A brief explanation of the decision not to prepare a subsequent EIR pursuant to Section 15162 should be included in an addendum to an EIR, the lead agency's findings on the project, or elsewhere in the record. The explanation must be supported by substantial evidence (Section 15164 (e)).*

This Addendum has been prepared in accordance with relevant provisions of the California Environmental Quality Act (CEQA) of 1970 (as amended) and the State CEQA Guidelines.

According to Section 15164 of the State CEQA Guidelines, an addendum to a previously certified EIR or Negative Declaration is the appropriate environmental document in instances when "only minor technical changes or additions are necessary" and when the new information does not involve new significant environmental effects beyond those identified in the previous EIR.

This Addendum describes the details of the Student Housing Phase 3 - Santa Rosa Village project (hereafter referred to as the proposed project) and compares its impacts to those identified in prior Campus Master Plan CEQA documents. The analysis will demonstrate that the proposed project is consistent with CSUCI's Campus Master Plan, as amended, and with the certified CEQA documents from 1998 through 2009.

The proposed project includes demolition of an existing building and wing of a building and construction of student housing on a previously developed site. Included as part of the proposed project are standard construction practices for storm-water management; dust and noise control during construction; and solid-waste diversion of construction waste.

BACKGROUND

Project Site Location. The project site is located in southern Ventura County at the eastern edge of the Oxnard Plain and at the western flank of the Santa Monica Mountains. The CSUCI campus lies 3 miles south of the City of Camarillo, northeast of the intersection of Lewis

and Potrero Roads and east of Calleguas Creek. Primary access to the site is provided via Lewis Road (State Route 34) from the north and south. Regional access is provided by U.S. Highway 101 to the north of the project site and Hueneme Road and State Route 1 from the southwest.

The project site is located in the southwest corner of the South Quad. The South Quad is located north of Potrero Road and Santa Paula Avenue between Ventura and Camarillo Streets. See Figure 1 for the project site location.

CSUCI Campus Master Plan Entitlement History. In September 1998, the Board of Trustees of the CSU certified a Final EIR (hereafter referred to as the 1998 FEIR) and adopted a concept Long Range Development Plan for the CSUCI campus. That plan, hereafter referred to as the 1998 Campus Master Plan, provided for land transfer and reuse of the former California State Developmental Hospital in Camarillo to the CSU. (Note: currently the Campus Master Plan is referred to as the Campus Vision Plan.)

The 1998 Campus Master Plan envisioned a combination of demolition and renovation of core campus area buildings and construction of new academic and research and development space in the campus core. The 1998 Campus Master Plan also included development of 900 residential units within the East Campus. The academic campus was planned to grow into a four-year university serving 15,000 full time equivalent students (FTES) and approximately 1,500 faculty and staff by the year 2025. A total of 11,750 FTES were to be served on site, while 3,250 FTES would be served off site.

In August 1999, the first 100,000 square feet of classroom space was opened, facilitating the move of the CSU Northridge Off-Campus Center from Ventura to the CSUCI campus. Following certification of the 1998 FEIR, a CSU-directed planning team was established to work on refining the plans for the physical infrastructure and programs on the campus. The ongoing planning has led to revisions to the original vision, which have been addressed in a series of supplemental planning documents and CEQA review documents. The supplemental CEQA documentation prepared subsequent to the 1998 FEIR is listed below.

- **CSUCI Revised Campus Master Plan 15,000 FTES Supplemental EIR** (June 2000, referred to as 2000 SEIR), accommodating: land acquisitions; on-campus site plan modifications; definition of density and type of residential uses; and development of the K-8 school on the east campus.

- **CSUCI 2004 Campus Master Plan Amendment Supplemental EIR** (January 2004, referred to as 2004 SEIR), accommodating: expansion of land acquisition area from 75 to 154 acres to accommodate proposed access roads, parking, athletic fields and wetland mitigation areas; an anaerobic digester and chiller plant; modifications to west quadrangle and academic core; relocation of the town center facility; and construction of the Chumash demonstration village.

- **CSUCI 2009 Facilities Projects Supplemental EIR** (February 2009, referred to as 2009 SEIR), accommodating: an approximately 370-acre open space conveyance from the County of Ventura to CSUCI; an electrical substation; and detailed design modifications to a new campus entry road.

None of the subsequent tiered CEQA documents involve any changes to the Year 2025 15,000 FTES enrollment target.

PROJECT DESCRIPTION

The proposed project would involve the following components:

- *Demolition of the existing Building 14;*
- *Demolition of the south wing of Building 8;*
- *Construction of a four-story, 118,475 gross square foot (GSF), 79,215 assignable square foot (ASF) student housing complex, providing approximately 600 beds, common study, lounge, multi-purpose and recreation rooms as well as support spaces (bathrooms, storage, etc.);*
- *Renovation of 1,630 gross square feet (GSF) of the existing "Day Room" between the existing buildings 8 and 9 as a passageway from the Southern Quad to the proposed Santa Rosa Village; and*
- *Infrastructure improvements to support the project.*

Figure 2 shows the proposed demolition plan and Figure 3 shows the proposed site plan for the proposed project. Overall, the proposed project would add on-campus housing for 600 FTEs in dormitory beds and add four administrative offices when compared to existing conditions. The proposed project would also involve future development of two 2-bedroom faculty/staff apartments in Building 8.

The general building form of the proposed new student housing building would be 40-bed "pods" that are organized in 21 room clusters, each "L" shaped and sharing a circulation and service core. Three residential clusters would be located at the ground floor, while the remaining twelve clusters would be located on levels two through four. Typical pods would include bathrooms and common family rooms. The height of the roof of the buildings would be approximately 42 feet from grade. The maximum height of the buildings' architectural features would be 59 feet from grade.

The proposed site plan would include three distinct courtyard spaces. The northeastern courtyard would be the primary entry court and provide a formal entrance to Santa Rosa Village from the South Quad and the ground-floor community room. The west and south courtyards would face Santa Paula Street and the campus surrounds. The primary exterior finish material would be stucco on wood framing with accents of ceramic tiles on select facades. The roofs would be clay tile, similar to existing campus structures, and the windows would be aluminum framed Brick Red, UC43355 per University Standard. Figure 4 illustrates the proposed building elevations and Figure 5 provides a rendering of the proposed building.

CSUCI requires new housing space to meet current and future enrollment demands, as well as provide adequate office space for administration of that housing. The proposed project would increase on-site campus dormitory capacity by 600 FTES and would add two faculty/staff apartments and four administrative offices compared to existing conditions. Assuming that the proposed new student housing would house new students and not currently enrolled students

that live off-campus, the proposed project would at most increase enrollment by 600 FTES. Currently, CSUCI has an enrollment of 4,472 FTES (2013/2014 school term). Therefore, enrollment with the proposed project would be approximately 5,072 FTES. This would be far below the on-site enrollment of 11,750 FTES anticipated and analyzed as part of the 1998 FEIR and subsequent EIRs. In addition, the proposed addition of 600 beds would increase the number of beds on campus to approximately 1,400 beds, which is well below the maximum of 2,000 beds as provided for in the 2000 SEIR.

DECISION NOT TO PREPARE SUBSEQUENT EIR

As outlined in Section 15164 (Addendum to an EIR or Negative Declaration) of the State CEQA Guidelines, the lead agency shall prepare an addendum to a previously certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred.

As discussed in detail in the following sections, the proposed project is consistent with the Campus Master Plan. As such, it is within the parameters considered in the 1998 FEIR and subsequent tiered CEQA documents. In addition, as supported by the following analysis, the proposed project would have no new significant environmental effects beyond those identified in the 1998 FEIR or the subsequent CEQA documents. Based on these findings, substantial evidence has been provided to support the decision not to prepare a subsequent EIR pursuant to Section 15162 and as such this Addendum is the appropriate environmental documentation under CEQA. This Addendum will be considered by the decision-making body, in this case the Board of Trustees of the CSU, along with the 1998 FEIR and subsequent CEQA documents prior to making a decision on the project, as required by Section 15164 of the State CEQA Guidelines.

As discussed below, mitigation measures identified in the 1998 FEIR, 2000 SEIR, 2004 SEIR, and 2009 SEIR would apply to the current proposal, as would the adopted Mitigation Monitoring and Reporting Programs for those EIRs.

ENVIRONMENTAL IMPACTS OF STUDENT HOUSING PHASE 3 – SANTA ROSA VILLAGE PROJECT

This section addresses each of the environmental issues discussed in the 1998 FEIR and subsequent CEQA documents to determine whether or not the current proposal has the potential to create new significant impacts or a result in a substantial increase in the severity of a significant impact as compared to what was identified in the 1998 FEIR and subsequent CEQA documents. Additionally, impacts will be compared to existing on the ground conditions.

Aesthetics

Public Viewsheds. The 1998 FEIR identifies a significant, but mitigable impact related to the potential for the project to alter public viewsheds from Potrero Road (AES-1). The proposed project would involve demolition and construction of a student housing building within sight of Potrero Road. Mitigation measures AES-1(g), AES-1(h), and AES-1(k) address the siting and

design of buildings located within sight of or near Potrero Road, and would apply to the proposed project:

AES-1(g) *Buildings and facilities built along the Potrero Road edge of the core campus area shall be set back from the Potrero Road right-of-way a minimum of 40 feet. Heights of any building within 100 feet of the Potrero Road right-of-way shall be limited to 30 feet (1998 FEIR, page B-7).*

AES-1(h) *Highly reflective façade building materials such as glass or polished metals shall not be allowed to exceed 20 percent of the façade areas visible to Potrero Road travelers (1998 FEIR, page B-7).*

AES-1(k) *Landscaping within the Potrero Road viewshed shall, when feasible, incorporate existing trees into the new design. When they must be removed, trees should be either relocated or replaced at a 1:1 ratio with tree species of a like variety to those being removed (1998 FEIR, page B-8).*

The proposed project would be set back 100 feet from the Potrero Road right-of-way; therefore, the height restrictions outlined in measure AES-1(g) would not apply to the proposed project. The proposed project includes removal of approximately 15 trees, but would add trees throughout the project site. Implementation of these mitigation measures would ensure that the proposed project would not create any new significant viewshed impacts or increase the severity of significant impacts previously identified in the 1998 FEIR.

Visual Character. The 1998 FEIR and 2000 SEIR identify a significant, but mitigable impact related to altering the aesthetic condition of the Campus Master Plan site through demolition, construction of new buildings and roadways, and landscaping (AES-2). Similar to what is described for many development activities in the 1998 FEIR and 2000 SEIR, the proposed project would involve demolition and construction of new buildings on campus. Mitigation measures AES-2(a), AES-2(b), and AES-2(d) from the 1998 FEIR would apply to the proposed project and address potential impacts resulting from alteration of the visual character of the project site:

AES-2(a) *All new structures shall be limited to four levels and 60 feet in parapet height. Building design plans shall incorporate design details as recommended by the campus master plan architect to minimize its bulk and to ensure design compatibility with campus structures. Design features to be considered in the design of buildings and building complexes shall include:*

- *Incorporation of courtyards and plazas;*
- *Perimeter landscaping along facades;*
- *Massing, roofing, and façade materials that complement the core campus design;*
- *Setback of third and fourth stories; and*
- *Use of arcades, colonnades, and cupolas (1998 FEIR, page B-8).*

AES-2(b) *Site lines of new structures in the core campus area shall orient to the grid pattern established by the existing design. Site lines of visually prominent features such as the central cupola, Round Mountain, and surrounding ridgelines shall be considered in the design of new buildings (1998 FEIR, page B-8).*

AES-2(d) *All mature trees with trunk measurements of 6" or greater when measured 4.5 feet above the ground shall be incorporated into site design when feasible. If their removal is required for the construction of new structures, roadways, or parking areas, they shall be replaced at a one-to-one ratio with a like species or moved to a suitable location. Planting locations shall be determined by a qualified landscape architect in consultation with the building architect (1998 FEIR, pages B-8 to B-9).*

The proposed project would be four-stories in height and the maximum height of the architectural features would be 59 feet from grade. The proposed project would involve three courtyards and landscaping around all building façades (see Figure 3) and would include building materials that are consistent with surrounding buildings and the core campus design. With implementation of these mitigation measures, the façade materials, massing, and building height would be compatible with the existing visual character of the campus. Consequently, the proposed project would not create any new significant visual character impacts or increase the severity of significant visual character impacts previously identified in the 1998 FEIR.

Light and Glare. The 1988 FEIR (Impact AES-3) and 2000 SEIR (Impact S-AES-3) identify significant, but mitigable impacts related to light and glare from the construction of new buildings, lighting for sports facilities, and new parking areas. The 2009 SEIR identified a significant impact related to light and glare through modifications to planting standards for new surface parking lots, installation of athletic fields lighting at the Potrero Road fields, an electrical substation, and lighting along access roads and bike paths along the old and new levees (09-Impact AES-2). The proposed project involves construction of a new building but would not involve lighting for sports facilities, new parking areas, or along the levees. Therefore, only mitigation measures S-AES-3(a), as amended in the 2009 SEIR, and 09-AES-2(d), would apply to the proposed project as these address potential impacts resulting from the lighting of the new building:

S-AES-3(a) *Prior to development, proposed lighting shall be indicated on site plans that demonstrate that spillover of lighting would not affect surrounding areas. Nighttime lighting standards shall be limited to 33-feet in height. The lighting plan shall incorporate lighting that directs light pools downward or otherwise shields adjacent areas from glare. Light fixtures that shield excessive brightness at night shall be included in the lighting plan. Non-glare lighting shall be used (2009 SEIR, pages 4.1-4 to 4.1-5).*

09-AES-2(d) *All outdoor lighting shall implement the following "dark sky friendly" lighting design specifications by the International Dark-Sky Association to protect the nighttime environment from light pollution including sky glow, glare, light trespass, light clutter, decreased visibility, and energy waste.*

- *Low glare lighting equipment shall be incorporated. Area lighting, such as for parking lots, shall utilize full cutoff luminaries. Pedestrian and entry lighting shall utilize full cutoff luminaries. Pedestrian and entry lighting shall utilize full cutoff luminaries or low wattage luminaries. Façade/architectural lighting shall be aimed from the top down or otherwise make certain that any uplight does not escape the lines of the building.*

- *Landscape and security lighting shall be fully shielded so that the majority of light hits the target and is shielded from normal viewing angles and does not cause glare.*
- *Areas shall not be over-lit. Lighting levels shall be kept low so as not to create reflected light that may contribute to sky glow. Projects shall target lower lighting levels and better uniformity for improved safety and security lighting.*
- *Lights shall be turned off when not needed. Landscape and façade lighting shall be turned off after midnight or earlier. Parking lot luminaries shall also be turned off after midnight or earlier.*
- *Project shall consult a certified lighting designer prior to design selection regarding design techniques and dark sky friendly lighting.*

With implementation of these mitigation measures, the proposed project would not create any new significant impacts related to light and glare or increase the severity of significant impacts previously identified in the 2000 SEIR and 2009 SEIR.

Agricultural Resources

Conversion of Farmland. The 2000 and 2004 SEIRs identify a significant and unavoidable impact related to conversion of Prime farmland and farmland of Statewide Importance (Supplemental Effect AG-1, 2004 Impact AG-1). The proposed project would not involve the removal of agricultural land. Therefore, the proposed project would not create any new significant impacts related to conversion of agriculture resources, or increase the severity of significant impacts previously identified in the 2000 and 2004 SEIRs.

Land Use Conflicts. The 2000 and 2004 SEIRs identify a significant, but mitigable impact related to land use conflicts with adjacent agricultural operations (Supplemental Effect AG-2 and 2004 Impact AG-3). Mitigation measure 03-AG-3(a), as amended in the 2004 SEIR, addresses land use conflicts and would apply to the proposed project:

03-AG-3(a) ***Use Buffer for Buildings and Athletic Fields.*** *A minimum 150-foot setback (in conjunction with a vegetative buffer) or 300-foot setback (without vegetative buffer) between any occupied campus structures, uses or athletic facilities and agricultural production shall be provided. The buffer may include roads and landscaped areas. Said buffer shall be located on the project site, and not on the adjacent agricultural development. If a minimum 150-foot setback with vegetative buffer is selected, said buffer shall consist of two staggered rows of bushes with 50 to 75% porosity (i.e., approximately 50 to 75% of the vegetation is air space) to effectively minimize pesticide drift or dust effects. To provide adequate coverage, the two staggered rows should be located 5 feet apart and consist of a minimum of 5-gallon plants planted 10 feet on center. The plant species shall be a noninvasive species that would not harbor agricultural pests. Recommended plant species can include a mix of native California plants, such as Toyon (*Heteromeles arbutifolia*), Sugarbush (*Rhus ovata*), Laurel sumac (*Malosma laurina*) or other species with the indicated characteristics to reduce*

irrigation and maintenance needs. Italian cypress or similar plants may also be provided in a more urban setting (2004 SEIR, pages 4.2-13 to 4.2-14).

The proposed project would be setback 150 feet from the agricultural operations south of Potrero Road and would include a vegetative buffer in the strip of land between Potrero Road and Santa Paula Avenue (see Figure 3). Therefore, the proposed project would not create any new significant impacts or increase the severity of significant impacts previously identified in the 2000 and 2004 SEIRs.

Air Quality

Construction Impacts. The 1998 FEIR and 2009 SEIR identify construction-related air quality impacts as less than significant since emissions would be temporary in nature (AQ-1, 09-Impact AQ-1). The proposed project would involve construction activity that would generate emissions of ROG, NOx, CO, and particulate matter. The Ventura County Air Pollution Control District (VCAPCD) has not adopted significance thresholds for construction-related emissions, since such emissions are temporary.[1] Nonetheless, the 1998 FEIR recommended the following measures to reduce construction-related emissions:

AQ-1(a) ***Dust Control Measures****: Dust generation produced during grading and construction activities shall be controlled by the following activities:*

- *Throughout grading and construction operations, fugitive dust shall be controlled with the use of water trucks generally at least three times per day (except immediately after rainfall). If available, reclaimed water from Camrosa Water District shall be used.*
- *All exposed soil areas, including unpaved on-site roadways and material stock piles shall be watered and/or treated with APCD approved Soil Stabilization materials and roll compacted unless recent rainfall provides sufficient dust control. Completed grading shall be monitored weekly for dust stabilization.*
- *All trucks exporting fill from the site shall use tarpaulins to cover the load in compliance with State Vehicle Code Section 23114. Material transported on-site shall be sufficiently watered or secured to prevent fugitive dust.*
- *All construction traffic on-site along dirt roads shall be limited to 15 miles per hour or less.*
- *APCD-approved soil stabilizers, such as water and roll compaction, Magnesium Chloride additives (DUST-OFF or DTC or equivalent) shall be applied to portions of the construction site that are inactive for over four days.*
- *During periods of high winds (i.e., wind speed exceeding 20 mph averaged over one hour) all clearing, grading, earth moving, and excavation operations shall be curtailed to the degree necessary to prevent fugitive dust from the project site from becoming a nuisance or hazard. The Site Superintendent shall use his/her discretion in conjunction with the Ventura*

[1] Ventura County Air Quality Assessment Guidelines. October 2003. Accessed on September 2, 2014. Accessed at http://www.vcapcd.org/pubs/Planning/VCAQGuidelines.pdf

County APCD in determining when winds exceed 20 mph averaged over one hour.
- *Streets shall be swept at the end of each day during construction if visible soil material is carried over to adjacent roads.*
- *Employees involved in grading operations shall be advised to wear face masks during dry periods to reduce inhalation of dust (1998 FEIR, page B-10).*

AQ-1(b) ***Ozone Precursor Control Measures****:*
- *Equipment engines should be maintained in good condition and in proper tune as per manufacturer's specifications;*
- *Lengthen construction periods during the smog season so as to minimize the number of vehicles and equipment operating simultaneously; and*
- *Use new technologies to control ozone precursor emissions as they become available (1998 FEIR, page B-11).*

The proposed project would involve construction activity that would generate emissions of Reactive Organic Gases (ROG), Nitrogen Oxides (NO_X), Carbon Monoxide (CO) and particulate matter (PM_{10} and $PM_{2.5}$). The proposed project would contribute to the temporary, less than significant impact for construction emissions already identified in the 1998 FEIR and 2009 SEIR. As discussed previously, the proposed project would not increase the square footage of anticipated buildings on campus beyond what was considered in the 1998 FEIR and 2009 SEIR. Additionally, implementation of the measures listed above would further reduce already less than significant impacts from construction emissions. Therefore, the proposed project would not create any new significant impacts.

Operational Impacts. The 1998 FEIR identifies a significant and unavoidable impact related to operational emissions exceeding VCAPCD significance thresholds for ROG and NO_x (Impact AQ-2). The 2009 SEIR identified a less than significant impact with respect to operational air quality impacts (09-Impact AQ-2). The 1998 FEIR included the following mitigation measures that would apply to the proposed project:

AQ-2(e) *On-site landscaping shall be designed so as to provide natural cooling and minimize the costs associated with upkeep by reducing the need for maintenance and reducing the need for motorized lawn care equipment.*

AQ-2(f) *All new structures on-site shall be designed to exceed California Code of Regulations, Title 24 energy standards by at least 20%.* [2]

The VCAPCD considers operational air quality impacts to be significant if a project would generate more than 25 pounds per day of ROG or NO_x. The proposed project would involve development of a student housing building on the CSUCI campus, which would emit ROG and NOx during operation. Table 1 shows the estimated maximum daily air pollutant emissions during operation of the proposed project.

[2] Note that the reference to Title 24 of the California Code of Regulations refers to the version of the Code that was in place at the time of certification of the 1998 FEIR.

Table 1
Estimated Maximum Daily Air Pollutant Emissions During Operation

	Emissions (lbs/day)				
	ROG	**NO_x**	**CO**	**Total PM_{10}**	**Total $PM_{2.5}$**
Maximum lbs/day	7.77	10.72	43.13	7.78	2.19
VCAPCD Threshold	*25*	*25*	*n/a*	*n/a*	*n/a*
Exceed Threshold?	**No**	**No**	**n/a**	**n/a**	**n/a**

Source: CalEEMod, see Appendix A for calculations
Notes: VCAPCD does not currently have daily thresholds in place for CO, Total PM_{10} and Total $PM_{2.5}$.

As shown in Table 1, operation of the proposed project would not exceed VCAPCD thresholds. However, the proposed project would contribute to the overall generation of ROG and NO_x by the campus, which was identified as a significant and unavoidable impact in the 1998 FEIR. The 1998 FEIR analyzed the potential impacts of all facilities associated with an enrollment of 15,000 FTES. The FTES added by the proposed project would be within the anticipated FTES identified in the Campus Master Plan. Consequently, the current proposal would not increase building square footage or facilities on campus that would exceed the impacts identified in the 1998 FEIR. Therefore, the proposed project would not generate any new significant impacts or increase the severity of significant impacts previously identified in the 1998 FEIR.

Carbon Monoxide (CO) Hot Spots. The 1998 FEIR identifies a less than significant impact with respect to creation of CO "hot spots" where CO concentrations exceed state and/or federal standards (Impact AQ-3). CO hot spots are primarily related to traffic congestion and, as discussed under *Transportation and Traffic*, the proposed project would not generate traffic impacts beyond those already identified in the 1998 FEIR. Therefore, the proposed project would not create any new significant CO impacts.

County's Air Quality Management Plan. The 1998 FEIR identifies a significant and unavoidable impact with respect to inconsistency of the Campus Master Plan with the County's Air Quality Management Plan, primarily because anticipated population increases associated with the Campus Master Plan were found to exceed population forecasts for the area (Impact AQ-4). The proposed project would not generate increased student enrollment beyond what is planned under the Campus Master Plan; therefore, the proposed project would not create any new significant impacts or increase the severity of significant impacts already identified in the 1998 FEIR.

Biological Resources

Biologically Sensitive Communities. The 1998 FEIR identifies a significant, but mitigable impact with regard to the amount of plant and wildlife habitat that would be disturbed by buildout of the Campus Master Plan as well as in regard to decreases in locally and regionally significant biological sensitive communities (Impact BIO-1). The 2009 SEIR identifies a significant, but mitigable impact with respect to impacts to sensitive species due to the reduction in habitat (09-Impact BIO-1). The 1998 FEIR included mitigation to maintain

biological resources in open space portions of the campus (BIO-1(a)), replace lost wetland habitats (BIO-1(b)), post signs prohibiting indiscriminate access to the surrounding hillsides (BIO-1(c)), and for the CSU to prepare a landscaping plan for the open space buffers between the developed portions of campus and the open space vegetation (BIO-1(d)). The 2009 SEIR also included mitigation related to preserving biological resources in the Open Space Conveyance Area and in the riparian habitat along Long Grade Canyon Creek (09-BIO-1(a) and 09-BIO-1(b)). The 2009 SEIR also includes a mitigation measure to reduce lighting impacts on species (09-BIO-1(c)).

The project site is not located near open space or riparian habitat and does not involve the removal of wetlands. The project site is located in a developed area of campus and no sensitive species or native habitat exist onsite. Therefore, mitigation measures included in the 1998 FEIR do not apply. The proposed project would not create any new significant impacts or increase the severity of significant impacts previously identified in the 1998 FEIR.

Sensitive Plant and Wildlife Species. The 1998 FEIR identifies a less than significant impact with respect to sensitive plant species (Impact BIO-2), a significant, but mitigable impact with respect to sensitive fish and wildlife resources (Impact BIO-3), and a less than significant impact with respect to interruption of wildlife corridors or habitat linkages (Impact BIO-4). The 2000 and 2009 SEIRs identify a significant, but mitigable impact with regard to nesting bird habitat (Supplemental Impact BIO-4, 09-Impact BIO-2). The proposed project involves removal of approximately 15 trees. Nesting birds may be present in the existing trees on the project site; therefore, removal of existing trees may affect nesting bird habitat. Mitigation measure 09-BIO-2, as amended in the 2009 SEIR, would apply to the proposed project if site clearance activities occur during the nesting bird season (February 1 to August 31):

09-BIO-2 *If vegetation clearing (including tree pruning and removal) or other project construction is to be initiated during the bird breeding season (February 1 through August 31), pre-construction/grading surveys shall be conducted by a qualified ornithologist. Surveys would begin 30 days prior to initial disturbance activities and would continue once per week, with the last survey being conducted no more than three days prior to the initiation of clearance/construction work. If a nesting bird or special-status species is located, consultation with the local CDFG representative would occur to determine what avoidance actions may be taken. If any active non-raptor bird nests are found, a suitable buffer area (varying from 25-300 feet) depending on the particular species found is established from the nest, and that area is avoided until the nest becomes inactive (vacated). If any active raptor bird nests are found, a suitable buffer area of typically 250-500 feet from the nest is established, and that area is avoided until the nest becomes inactive (vacated). Limits of construction to avoid a nest should be established in the field with flagging and stakes or construction fencing. Construction personnel should be instructed on the sensitivity of the area. The applicant should record the results of the recommended protective measures described above to document compliance with applicable State and federal laws pertaining to the protection of nesting birds (2009 SEIR, pages 4.3-31 to 4.3-32).*

With implementation of the mitigation measure identified in the 2009 SEIR, the proposed project would not have an effect on plant or wildlife species, nesting birds or wildlife corridors or habitat linkages. Consequently, the proposed project would not create any new significant impacts or increase the severity of significant impacts previously identified in the 1998 FEIR or 2000 and 2009 SEIRs.

Native Vegetation. The 1998 FEIR identifies a significant, but mitigable impact related to development located adjacent to native vegetation that has a high potential for wildlife (BIO-5). Fuel modification zones and wildfire suppression efforts can alter the diversity of the vegetation in the long term. The proposed project would be located over 800 feet from the undisturbed coastal sage scrub east of Camarillo Street. Therefore, the proposed project would not create any new significant impacts or increase the severity of significant impacts already identified in the 1998 FEIR.

Cultural Resources

Archaeological Resources. The 1998 FEIR identifies a significant, but mitigable impact to archaeological resources due to the potential for disturbance of as yet undiscovered resources during excavation and grading activities (Impact C-1). The following mitigation measure was required:

> ***C-1*** *Should unanticipated cultural resource remains be encountered during construction or land modification activities, work must stop, and the University shall contact an archaeologist to provide qualified assessment of the nature, extent, and possible significance of any cultural remains. If significant resources are encountered or inadvertently damaged, the University shall implement the recommendations of the archaeologist with respect to documenting and safeguarding the resources, and restoring or repairing any damaged artifacts or resources (1998 FEIR, page B-17).*

This mitigation measure would apply to the proposed project and would ensure that construction activity would not create any new significant archaeological resource impacts or increase the severity of significant impacts already identified in the 1998 FEIR.

The 1998 FEIR also identified a less than significant impact with respect to growth and activities at Round Mountain (Impact C-2). The proposed project would not be located on or near Round Mountain. The proposed project would not create any new significant impacts.

Historic Resources. The 1998 FEIR identifies significant, but mitigable impact with respect to demolition and alteration of historical relationships and physical characteristics of historic resources associated with the Camarillo State Developmental Hospital (Impact C-3). In addition, the 1998 FEIR found that the adaptive reuse of the majority of historic buildings within the site would be considered a potentially beneficial effect of the proposed project. The 2000 SEIR identifies a significant and unavoidable impact related to the alteration of physical characteristics and physical relationships of historic resources. The buildings in the South Quad Complex (building numbers 1 through 18 and courtyards) were constructed between 1934 and 1937 and are considered historically significant in the 1998 FEIR and 2000 SEIR. Mitigation

measures S-C-2(a) through (d) from the 2000 SEIR are applicable to the proposed project, and would be applied. These are as follows:

S-C-2(a) *The Secretary of the Interior's Standards for Rehabilitation shall be applied to all construction projects on contributing historic resources. The project site qualifies to use the State Historical Building and Safety Code (SHBSC), a performance based code that offers greater flexibility in designing solutions to achieve life safety requirements. The SHSBC shall be used on all rehabilitation projects (2000 SEIR, page 4.4-9).*

S-C-2(b) *Campus facilities historic preservation repair and maintenance guidelines, focused on repair and maintenance techniques appropriate to historic features and materials, shall be developed and implemented to complement the Campus Architectural Design Guidelines. These maintenance guidelines shall be based on the Secretary of Interior Guidelines discussed above and on the SHSBC (2000 SEIR, page 4.4-9).*

S-C-2(c) *Infill structures shall be compatible in design, materials, massing and scale with the Spanish Colonial Revival style architecture. Design alternatives to taller (3 stories above ground) structures shall be considered. Placement of infill buildings in both quadrangles and within courtyards shall be designed to ensure retention of view corridors into courtyards and quadrangles as well as retention of visual access to significant exterior architectural features. Specifically:*

- *Infill buildings shall be designed to maintain visual access to significant historic exterior architectural features of existing buildings such as exterior stairs, arches and porches.*
- *Infill buildings shall be oriented to allow retention of original doors and windows of adjacent historic buildings (2000 SEIR, page 4.4-9).*

S-C-2(d) *Documentation, including photography, of original quadrangles and courtyard and adjacent architecture shall be conducted. Specifically,*

- *Photodocumentation (to Historic American Building Standards –HABS) shall be conducted for South and North Quadrangles and courtyards. Site plans (to scale) and narrative descriptions of quadrangles and courtyards shall be developed by qualified professionals with knowledge of architectural history, cultural geology and landscape architecture. Original copies of photographs and documentation shall be filed with the CSUCI Library, the California State Library, the California Office of Historic Preservation, the City of Camarillo Library, and the Ventura County Library.*
- *A University Archive shall be established at CSUCI Library. Campus histories and site documentation (such as referenced above), extant documents from the Camarillo State Hospital relating to its history and physical development, construction documents, and plans from current and future projects shall be deposited in this University Archive (2000 SEIR, pages 4.4-9 to 4.4-10).*

The proposed project would involve the demolition of an existing two-story building (Building 14) and two-story wing of another building (Building 8) in the South Quad complex as well as renovations to Building 8. The proposed project would also involve construction of a four-story building, which is higher than the historic one-and two-story buildings that comprise the South

Quad complex. The Secretary of the Interior's Standards call for structures to "be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment." Application of these standards to renovation and rehabilitation projects would reduce impacts to historic character-defining features and historic exterior building fabric. However, according to the 2000 SEIR, impacts associated with construction of new buildings in the South Quad would remain significant even after application of the required mitigation measures. This significant and unavoidable impact was discussed in the 2000 SEIR, and the proposed project would not create any new significant historic resource impacts or increase the severity of historic resource impacts previously identified in the 2000 SEIR.

Geology and Soils

Ground Shaking. The 1998 FEIR identifies a significant, but mitigable impact related to the introduction of new buildings that could increase the risk of structural damage and injury due to seismic ground shaking. As discussed in the 1998 FEIR, future seismic events could produce median ground accelerations up to about 0.53 g on the CSUCI campus. The proposed project would incrementally contribute to this impact by introducing a new building on the CSUCI campus. However, by replacing an existing older building with a new building constructed to current seismic standards, the proposed project may actually reduce the risk of structural damage and injury associated with ground shaking.

The proposed project would be constructed to comply with the most recent California Building Code (CBC) and the Uniform Building Code (UBC) standards. In addition, the proposed project would be subject to mitigation measures GEO-1(a), GEO-1(b), and GEO-1(c) in the 1998 FEIR, as follows:

GEO-1(a) *Building-specific seismic studies shall be required for new University structures. These studies will determine the applicable standards to be implemented per CSU standards. Mitigation measures identified within these site specific studies shall be implemented for new construction (1998 FEIR, page B-18).*

GEO-1(b) *Seismic design for proposed buildings of four stories or more in height, or 6,000 square feet or more in ground floor space, shall be reviewed by a licensed structural engineer (1998 FEIR, page B-18).*

GEO-1(c) *Those buildings or structures requiring a permit from the County shall be designed to meet County criteria and be inspected by County building inspectors (1998 FEIR, page B-19).*

With incorporation of these measures, the project would not create any new significant impacts with regards to ground shaking or increase the severity of significant impacts previously identified in the 1998 FEIR.

Liquefaction. The 1998 FEIR identifies a significant, but mitigable impact related to the introduction of new buildings that could be subject to liquefaction hazards. The proposed project would incrementally contribute to this impact by introducing a four-story building to the site that could potentially be subject to impacts from liquefaction. However, by replacing an

existing older building with a new building constructed to current standards, the proposed project may actually reduce the risk associated with potential liquefaction.

Mitigation measure GEO-2 in the 1998 FEIR requires a geotechnical study to be prepared for new structural development:

> ***GEO-2*** *A geotechnical study shall be prepared for those areas proposed for new structural development. This report shall include an analysis of the liquefaction potential of the underlying materials. If the site is confirmed to be in an area prone to seismically-induced liquefaction, suitable measures shall be proscribed and implemented (1998 FEIR, page B-19).*

A geotechnical study was prepared for the project site by Fugro West, Inc. in June 2007.[3] The report found that the sandy zones beneath the groundwater level of about 23 feet appear to have potentially liquefiable zones. Liquefaction-related settlement was estimated to range from about 1.5 to 3 inches on the project site. The geotechnical study includes recommendations to reduce liquefaction risk. In accordance with Mitigation measure GEO-2, these recommendations would be required to be implemented and would ensure that the proposed project would not create any new significant liquefaction impacts or increase the severity of significant impacts previously identified in the 1998 FEIR.

Soil Stability. The 1998 FEIR identifies a significant, but mitigable impact related to the introduction of new buildings that could potentially be subject to soil instability due to landslides, debris flows, or rock falls. However, the concern for soil instability is localized in the area of the former powerhouse, which is located over 1,000 feet northwest of the project site. The proposed project would not create any new significant impacts related to soil instability or increase the severity of significant impacts previously identified in the 1998 FEIR.

Subsidence. The 1998 FEIR identifies a significant, but mitigable impact related to the introduction of new buildings that could potentially be subject to subsidence. The proposed project would incrementally contribute to this impact by introducing new buildings on the CSUCI campus. However, by replacing an existing older building with new buildings constructed to current standards, the proposed project may actually reduce the risk associated with potential subsidence. Further, mitigation measures GEO-4(a) and GEO-4(b) from the 1998 FEIR would apply:

> ***GEO-4(a)*** *A geotechnical evaluation shall be required prior to site development. This report shall address the potential for static and seismically-induced soil subsidence. All recommended mitigation measures necessary to reduce this impact shall be implemented (1998 FEIR, page B-19).*
>
> ***GEO-4(b)*** *If a structure is identified to be in a high soil subsidence zone as a result of the geotechnical report, foundations shall be designed by a structural engineer to withstand the existing conditions, or the site shall be graded in such a manner as to mitigate the potential impact (1998 FEIR, page B-19).*

[3] Fugro West, Inc. June 20, 2007. *Geotechnical Study Phase 3 Student Housing, Santa Rosa Village, California State University Channel Islands Camarillo, California.*

Implementation of these mitigation measures would ensure that the proposed project would not create any new significant impacts related to subsidence or increase the severity of significant impacts beyond those identified in the 1998 FEIR.

Greenhouse Gas Emissions

The 1998 FEIR and subsequent SEIRs did not discuss greenhouse gas emissions as the inclusion of this issue was not yet required under CEQA at the time these documents were prepared. Therefore, a discussion of greenhouse gas emissions is provided herein to supplement the 1998 FEIR and subsequent SEIRs.

Gases that absorb and re-emit infrared radiation in the atmosphere are called greenhouse gases (GHGs), in reference to the fact that greenhouses retain heat. Common GHGs include water vapor, carbon dioxide (CO_2), methane (CH_4), nitrous oxides (NO_x), fluorinated gases, and ozone. GHGs are emitted by both natural processes and human activities. Of these gases, CO_2 and CH_4 are emitted in the greatest quantities from human activities. Emissions of CO_2 are largely by-products of fossil fuel combustion, whereas CH_4 results from off-gassing associated with agricultural practices and landfills. Man-made GHGs, many of which have greater heat-absorption potential than CO_2, include fluorinated gases, such as hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Different types of GHGs have varying global warming potential (GWP). The GWP of a GHG is the potential of a gas or aerosol to trap heat in the atmosphere. Because GHGs absorb different amounts of heat, a common reference gas (CO_2) is used to relate the amount of heat absorbed to the amount of the gas emissions, referred to as "carbon dioxide equivalent" (CO_2E), and is the amount of a GHG emitted multiplied by its GWP. CO_2 has a GWP of one. By contrast, CH_4 has a GWP of 21, meaning its global warming effect is 21 times greater than CO_2 on a molecule per molecule basis.

The accumulation of GHGs in the atmosphere regulates the earth's temperature. Without the natural heat trapping effect of GHGs, the Earth's surface would be about 34°C cooler. However, it is believed that emissions from human activities, particularly the consumption of fossil fuels for electricity production and transportation, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations.

The proposed project would not increase vehicle trips beyond what was previously considered in the 1998 FEIR as it would not increase student enrollment beyond what is already included in the Campus Master Plan. Therefore, no net increase in air pollutant emissions during operation of the proposed project would occur from what would be expected from buildout of the Campus Master Plan. Construction activities would be temporary and would not substantially increase GHG emissions.

Quantitative significance thresholds for this topic have not been adopted by the VCAPCD. It should be noted that the Ventura County General Plan does not currently have a GHG or Climate Change element. To date, the Bay Area Air Quality Management District (BAAQMD), the South Coast Air Quality Management District (SCAQMD), and the San Joaquin Air Pollution Control District (SJVAPCD) have adopted quantitative significance thresholds for

GHGs.[4] In addition, the California Air Resources Board (CARB) has provided draft interim guidelines with quantitative significance thresholds. Pursuant to the requirements of SB 97, the Resources Agency adopted amendments to the State CEQA Guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions. The adopted State CEQA Guidelines provide regulatory guidance on the analysis and mitigation of GHG emissions in CEQA documents, while giving lead agencies the discretion to set quantitative or qualitative thresholds for the assessment and mitigation of GHGs and Climate Change impacts. In addition, in an effort to guide professional planners, land use officials and CEQA practitioners, OPR prepared the document, *CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA)*. This document offers informal guidance regarding the steps lead agencies should take to address climate change in CEQA documents. This guidance was developed in cooperation with the Resources Agency, Cal EPA, and the CARB.

In lieu of approved VCAPCD significance thresholds, the neighboring SCAQMD proposed significance thresholds are considered appropriate for use in assessing the impact of this project. Although not yet adopted, SCAQMD has proposed a plan-based threshold of 6.6 metric tons CO_2E per service population (defined to include both residents and employees) per year or 3,000 metric tons CO_2E /year for all land use types for use in the South Coast region (SCAQMD, "Proposed Tier 4 Performance Standards, September 2010). Since the project does not include an increased service population, the proposed project will be analyzed against the proposed 3,000 metric tons CO_2E year SCAQMD threshold to determine impacts.

The California Emissions Estimator Model (CalEEMod) version 2013.2.2 was used to quantify GHG emissions associated with the proposed project (see Appendix A for complete modeling results). The estimated total operational GHG emissions from the proposed project would be approximately 1,777 metric tons CO_2E /year. Therefore, the proposed project would not exceed the 3,000 metric tons CO_2E /year threshold and would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. The proposed project would not create any new significant GHG impacts.

Hazards

The 2009 SEIR identifies significant, but mitigable impact related to exposure in the new access road area and the future conveyance area (09-Impact HAZ-1, 09-Impact HAZ-2, 09-Impact HAZ-2). The proposed project does not involve development in these areas and mitigation measures related to these impacts (mitigation measures 09-HAZ-1, 09-HAZ-2, and 09-HAZ-3) would not apply. The proposed project would not create any new significant impacts or

[4] On March 5, 2012 the Alameda County Superior Court issued a judgment finding that the BAAQMD had failed to comply with CEQA when it adopted the thresholds contained in the BAAQMD's 2010 CEQA Guidelines. The BAAQMD has been ordered to set aside the thresholds and is no longer recommending that these thresholds be used as a general measure of a project's significant air quality impacts. In August 2013, the First District Court of Appeal overturned the trial court and held that the thresholds of significance adopted by the BAAQMD were not subject to CEQA review. The California Supreme Court has agreed to hear an appeal of this case. The case is currently being briefed and the matter is still pending. Thus, BAAQMD will not issue a further recommendation until this litigation is complete.

increase the severity of significant impacts previously identified in the 1998 FEIR and subsequent CEQA documents.

Hydrology and Water Quality

Drainage System Capacity. The 1998 FEIR identifies a less than significant impact related to the capacity of the drainage system within the campus core (Impact HYD-1). The 1998 FEIR states that there would be no additional load impact to the existing storm drain system; however, potential surface flow into the streets may occur for a short duration (approximately 10-15 minutes). The proposed project would replace an existing building and the wing of a building with new student housing. The site is currently occupied by a buildings, walkways, and landscaping.

The proposed project would be constructed to the most recent National Pollutant Discharge Elimination System (NPDES) MS4 requirements issued to the County of Ventura by the Los Angeles Regional Water Quality Control Board (RWQCB), which require a substantial increase in the amount of flow retained and treated onsite prior to outfall into a storm drain. Therefore, the proposed project would not create any new significant impacts.

It should be noted that the 1998 FEIR discusses flooding potential in the area of the proposed parking garage located on the northwest side of the campus core (Impact HYD-2). Additionally, the 2000 SEIR discusses potential flooding from the construction of a road in the northern drainage and from converting the debris basin to recreational fields. The proposed project is not located in either of these areas. Therefore, no new impacts would occur with regard to flooding.

Also, the 1998 FEIR discusses a significant, but mitigable impact regarding expansion of residential uses in the East Campus resulting in storm water flows that would exceed existing drainage system capacity (Impact HYD-3). The proposed project is not located in the area identified as prone to drainage system incapacity; therefore, the proposed project would not contribute to this impact.

Pollutants. The 1998 FEIR identifies a significant, but mitigable impact related to runoff of various pollutants from parking lots, rooftops, and landscaping that could affect drainages and aquifers. The proposed project would incrementally contribute to this impact. This impact is further discussed in the 2004 SEIR concerning the proposed development of the additional parking lot and recreational fields (2004 Impact HYD-3). However, mitigation measures HYD-4(a) and HYD-4(c) in the 1998 FEIR require each project on the CSUCI campus to prepare a Stormwater Pollution Prevention Plan (SWPPP) containing specific Best Management Practices (BMPs) to reduce potential pollutant runoff during construction, including constructing oil and grease traps within catch basins and/or perimeter infiltration trenches. The mitigation measures also require the University to limit the use of pesticides and inorganic fertilizers applied to landscaping. The following mitigation measures would apply to the proposed project:

HYD-4(a) *The University shall require the contractor for each new facility subject to NPDES requirements to prepare a SWPPP containing Best Management Practices to be instituted during site construction (1998 FEIR, page B-21).*

HYD-4(c) *The University shall limit the use of pesticides and inorganic fertilizers applied to the landscaping to those quantities necessary to treat specific problems (1998 FEIR, page B-21).*

With implementation of these measures, the proposed project would not create any new significant water quality impacts or increase the severity of significant impacts previously identified in the 1998 FEIR.

Surface and Groundwater Quality. The 1998 FEIR identifies a significant, but mitigable impact related to the discharge of urban pollutants during construction and operation of individual Campus Master Plan area developments (Impact HYD-5). The 1998 FEIR states that the quality of surface water and groundwater would potentially decrease due to conversion of part of the campus to a golf course. As discussed in the 2000 SEIR, the golf course is no longer being contemplated. However, the mitigation measure applicable to the golf course would now be applicable to recreational fields. The proposed project is not located on recreational fields, nor is it proposed to be converted to recreational fields. Therefore, the proposed project would not create any new significant water quality impacts or increase the severity of significant impacts previously identified in the 1998 FEIR and subsequent CEQA documents.

Land Use and Planning

Construction Conflicts. The 1998 FEIR identifies a temporary significant, but mitigable impact regarding construction conflicts with external compatibility (Impact LU-1). However, as identified in the 1998 FEIR, these temporary impacts would be reduced to a less than significant level through implementation of mitigation measures for air quality and noise. The proposed project would involve construction which could temporarily create conflicts. However, the proposed project would be required to comply with mitigation measures identified in the Air Quality and Noise sections of the 1998 FEIR. With implementation of applicable measures, the proposed project would not create any new significant construction land use conflicts or increase the severity of land use conflicts previously identified in the 1998 FEIR.

Operational Compatibility. The proposed project involves construction of student housing in the southern portion of the South Quad, which has been planned for student housing for many years in the Campus Master Plan. Therefore, the project would implement the land use goals of the Campus Master Plan, assisting in achieving the core land use function of the University, and would not create any new significant operational land use conflicts.

Noise

Construction Noise. The 1998 FEIR identifies a significant, but mitigable impact related to temporary noise increases associated with individual construction projects within the CSUCI campus (Impact N-1). The proposed project would contribute to this impact insofar as it would involve demolition of an existing building and construction of a four-story, nearly 120,000 GSF building at the CSUCI campus. Construction noise associated with the proposed development would be audible at nearby receptor locations, including student housing. As shown in Table 2, on-site noise levels were measured to be between approximately 42 and 45 dBA Leq.

Table 2
Noise Measurements

Measurement	Location	Noise Level (dBA Leq)
1	Southern boundary of project site near parking lot and Santa Paula Street	42.7
2	Northern boundary of project site, southwest corner of South Quad near basketball courts	45.1

Source: 15-minute noise measurements were taken onsite using an ANSI Type II noise meter on August 28, 2014. See Appendix B for noise measurement results.

During construction activities, noise levels on campus would likely exceed existing measured noise levels. However, these impacts would be temporary. In addition, onsite construction activity would be subject to Measures N-1(a) through (c) from the 1998 FEIR, which specify a range of requirements pertaining to construction activity. These include:

N-1(a) *Grading activities that involve heavy equipment should be scheduled during the summer months when there is reduced activity on the campus or at other times when there is less activity on the campus (1998 FEIR, page B-24).*

N-1(b) *Construction activity within the campus core, including at the parking garages, shall be limited to day time hours of 7:00 AM to 6:00 PM Monday through Friday and no construction on State recognized holidays (1998 FEIR, page B-24).*

N-1(c) *Air compressors and generators used for construction within the campus core shall be surrounded by temporary acoustical shelters if within 300 feet of a sensitive receptor (1998 FEIR, page B-24).*

Implementation of these measures would ensure that the proposed project would not create any new significant construction noise impacts or increase the severity of significant impacts previously identified in the 1998 FEIR.

Traffic-Related Noise. The 1998 FEIR identifies a significant and unavoidable impact related to noise associated with long-term increases in automobile and truck traffic (Impact N-3). The proposed project would increase traffic-related noise during construction, due to worker trips, hauling, and other construction related trips. However, these impacts would be temporary. During operation, the proposed project would not generate automobile or truck traffic exceeding the levels identified in the 1998 FEIR as it would not involve an increase in student enrollment (see discussion under Transportation and Traffic). Additionally, the use of the proposed building for residential uses would be consistent with the noise levels of other institutional and residential land uses on campus. Consequently, the proposed project would not create any new significant impacts related to traffic noise, nor would it increase the severity of significant impacts previously identified in the 1998 FEIR.

Public Services

Water. The 2000 SEIR identifies a significant, but mitigable impact regarding increases in potable water demand associated with the buildout of the Campus Master Plan, with the largest single demand for water from the ballfields (Supplemental Effect WW-1). The proposed project

does not involve ballfields or play fields. As the proposed project would not increase the number of students or faculty members on the campus beyond what was planned for in the Campus Master Plan, water demand on campus would not exceed the volume analyzed in the 2000 SEIR. Therefore, the proposed project would not create any new significant impacts or increase the severity of significant impacts previously identified in the 2000 SEIR.

Wastewater. The 2000 SEIR identifies a significant, but mitigable impact regarding increases in wastewater associated with buildout of the Campus Master Plan (Supplemental Effect WW-2). As the proposed project would not increase the number of students or faculty members on campus beyond what was planned for in the Campus Master Plan, wastewater generation on campus would not exceed the volume analyzed in the 2000 SEIR. Therefore, the proposed project would not create any new significant impacts or increase the severity of significant impacts previously identified in the 2000 SEIR.

Solid Waste. The 1998 FEIR identifies a significant, but mitigable impact regarding increases in solid waste associated with buildout of the Campus Master Plan (Impact PS-2). As the proposed project would not increase the number of students or faculty members on campus beyond what was planned for in the Campus Master Plan, solid waste generation on campus would not exceed the amount analyzed in the 1998 FEIR. In addition, the proposed project would be required to adhere to mitigation measures PS-2(a) through (e) from the 1998 FEIR, which require a range of solid waste reduction activities. These include:

PS-2(a) *A long-term plan for recycling shall be developed with specific collection goals for each recyclable material category and a method to track quantities of materials. A source reduction plan should include such policies as training custodial staff for recycling as part of their jobs (1998 FEIR, page B-25).*

PS-2(b) *A source reduction plan shall be developed and integrated with a long-term recycling plan. A source reduction plan should include measures to eliminate single use items, encourage reuse of materials, use of more durable materials, and eliminate unnecessary usage. Use of reusable mugs and drink discounts have been shown to reduce the solid waste stream significantly (by as much as 30% at University of Colorado) (1998 FEIR, page B-25).*

PS-2(c) *The University shall promote the use of materials with recycled material content in them such as paper products. Disposable products that are used should be made of materials that can be easily collected on campus and recycled. For example, the plastics that are marked with numbers "1" or "2" are more readily recyclable than those plastic products marked with higher numbers (1998 FEIR, page B-25).*

PS-2(d) *As part of the construction and demolition contracts, the University shall require that contractors purchase and utilize materials with a recycle content during the construction of University facilities (1998 FEIR, page B-26).*

PS-2(e) *The University shall prepare and implement an organics recycling plan which would identify methods of recycling or reducing green waste collected from the project site through mulching or small-scale composting activities. Space allocation for on-site mulching and composting activities should be provided at the facilities maintenance yard. Any composting shall meet recent new standards concerning the control of pathogens (1998 FEIR, page B-26).*

Implementation of these measures would ensure that the proposed project would not create any new significant impacts or increase the severity of significant impacts identified in the 1998 FEIR.

Transportation and Traffic

Circulation System Capacity. The 1998 FEIR identifies a significant and unavoidable impact regarding increases in trips associated with buildout of the Campus Master Plan along with associated impacts to street segments and intersections in the Campus Master Plan area (Impacts T-1 through T-4). As the proposed project would not increase the number of students or faculty members on campus compared to the number of students and associated facilities analyzed in the 1998 FEIR, there would be no increase in trips compared to what was analyzed in the 1998 FEIR. In addition, the proposed project involves development of on-campus student housing. With more students able to live on campus, trips to and from the campus from students living off-campus would be reduced. Therefore, off-site traffic impacts would be reduced. Also, subsequent to 1998 when the Master Plan was adopted, traffic conditions in the area of the campus have improved as a result of the widening of Lewis Road and the completion of the entrance road. Therefore, the proposed project would not create any new significant impacts, or increase the severity of significant impacts previously identified in the 1998 FEIR.

CONCLUSION

As discussed in detail in the preceding sections, the proposed Student Housing Phase 3 – Santa Rosa Village project is consistent with the CSUCI Campus Master Plan. As such, it is within the parameters considered in the CSUCI Campus Master Plan Final Program EIR that was certified in September 1998 and the subsequent tiered CEQA documents. In addition, as supported by the analysis above, the proposed project would have no new significant environmental effects beyond those identified in the CSUCI Campus Master Plan Final Program EIR or the subsequent CEQA documents nor would it increase the severity of significant impacts previosuly identified. Based on these findings, substantial evidence has been provided to support the decision not to prepare a subsequent EIR pursuant to Section 15162 and as such this Addendum is the appropriate environmental documentation under CEQA. This Addendum will be considered by the decision-making body, in this case the Board of Trustees of the CSU, along with the 1998 CSUCI Campus Master Plan Final Program EIR and subsequent CEQA tiered CEQA documents prior to making a decision on the project, as required by Section 15164 of the State CEQA Guidelines.

As discussed above, mitigation measures identified in the 1998 CSUCI Campus Master Plan Final Program EIR, 2000 Revised Campus Master Plan 15,000 FTES Final Supplemental EIR, the 2004 Campus Mater Plan Amendment Final Supplemental EIR, and the 2009 Facilities Projects Final Supplemental EIR would apply to the current proposal, as would the adopted Mitigation Monitoring and Reporting Programs for those EIRs.

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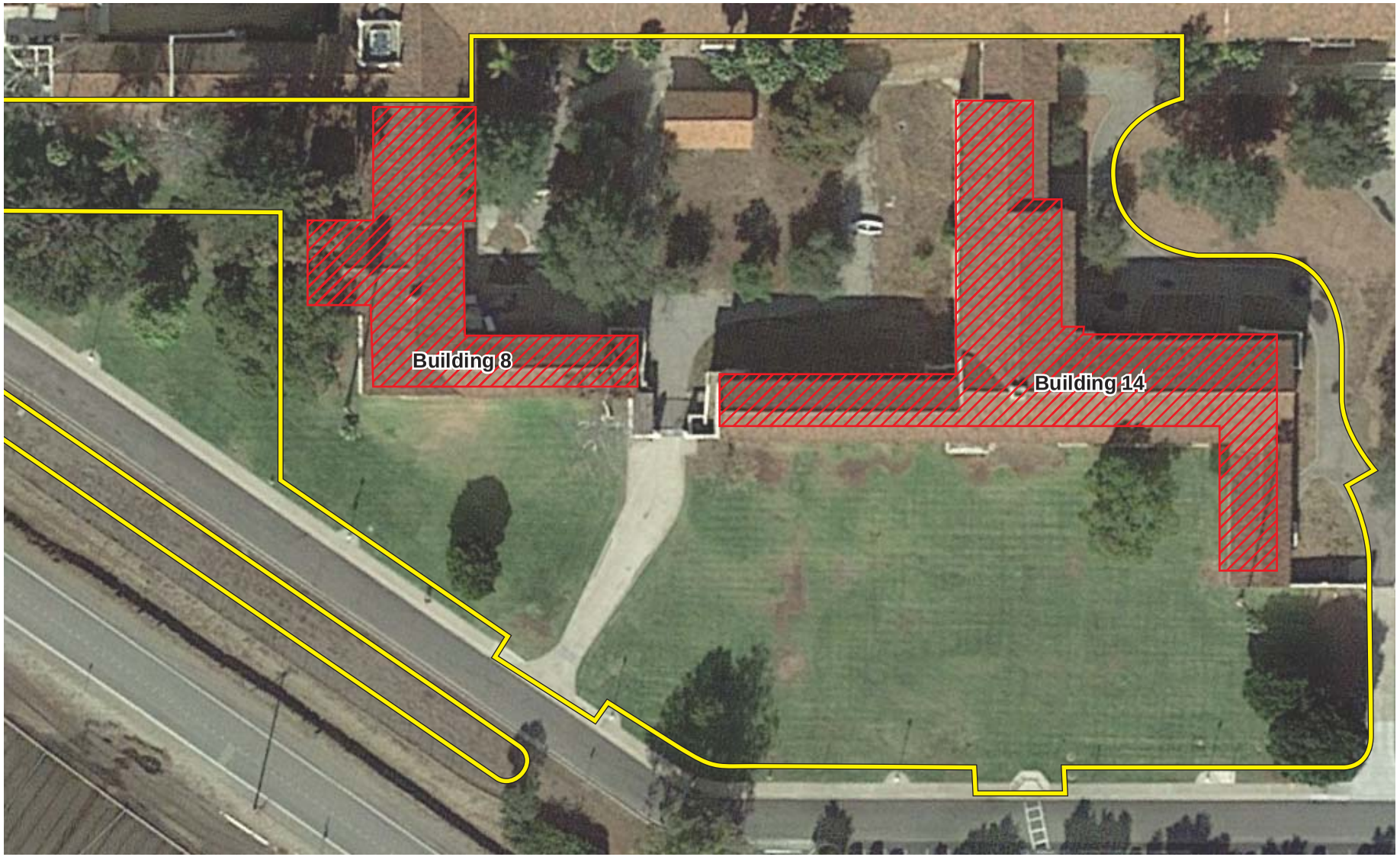
Project Site
(Approximate)

0 100 200
Feet

N

Project Site Map

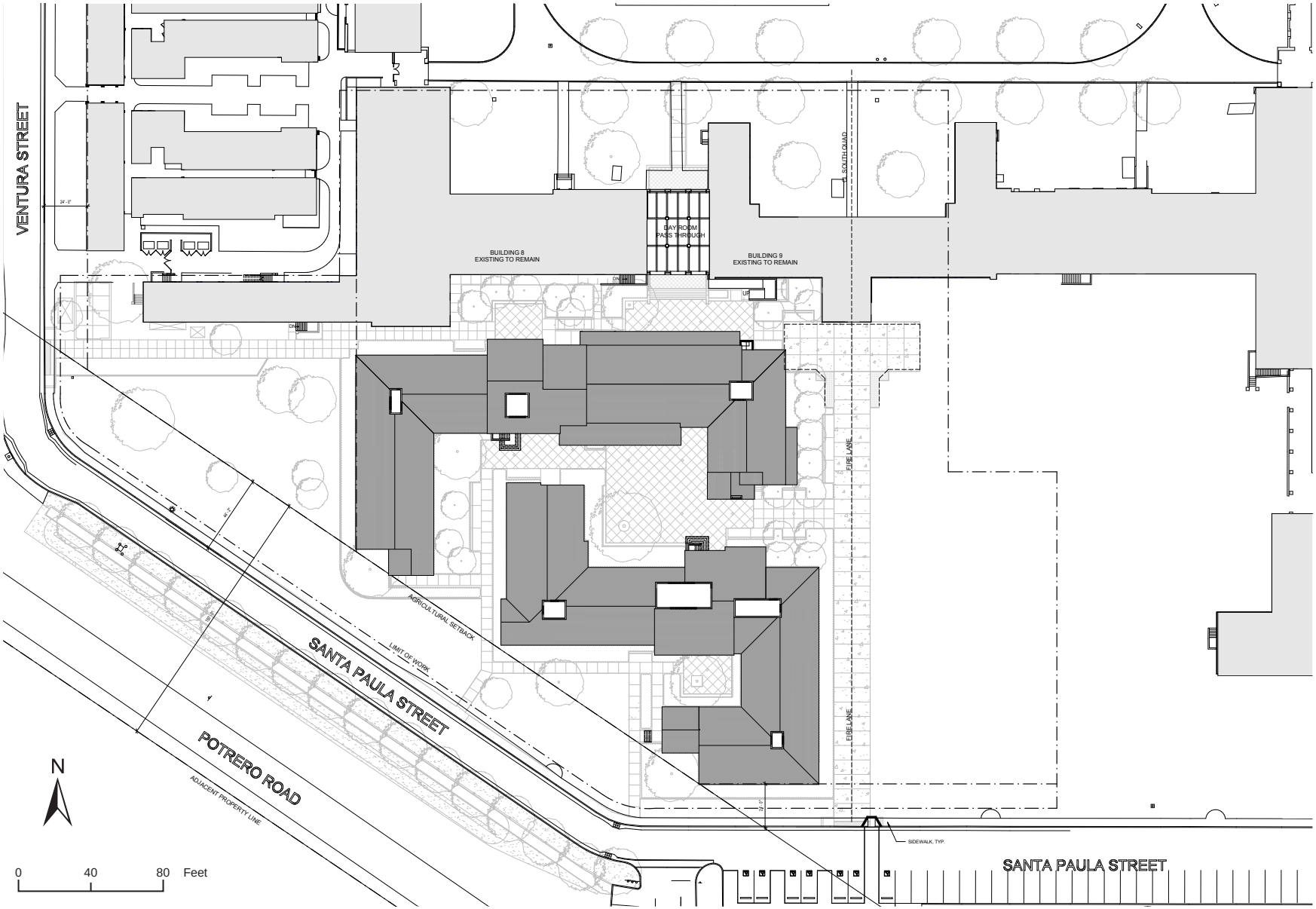
Figure 1



Demolition Plan

Figure 2

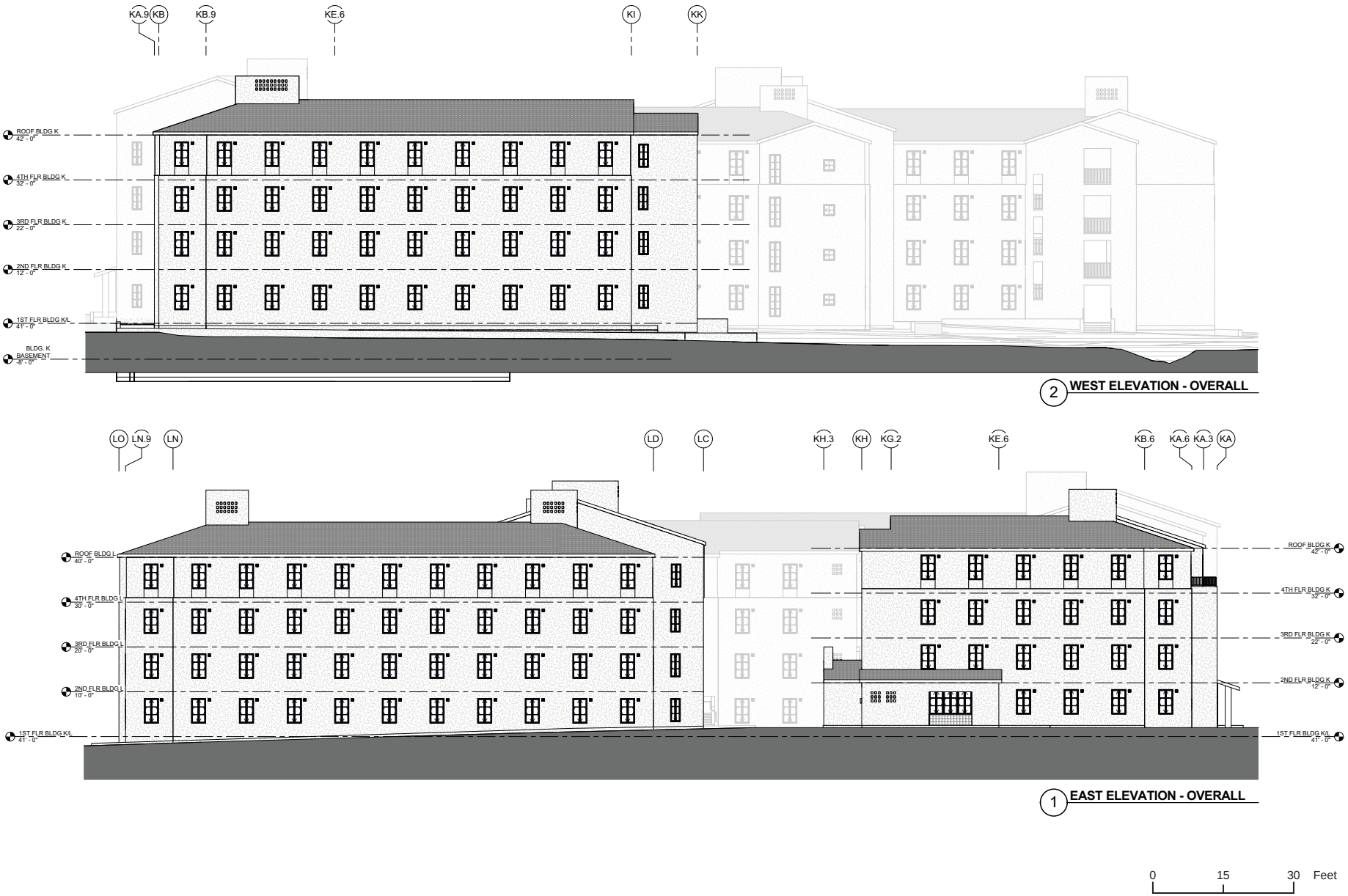
Source: Solomon Cordwell Buenz (SCB) architects, August 2014



Site Plan

Figure 3

Source: Solomon Cordwell Buenz (SCB) architects, August 2014



Source: Solomon Cordwell Buenz (SCB) architects, August 2014

Overall Building Elevations

Figure 4

Source: Solomon Cordwell Buenz (SCB) architects, August 2014

Rendering

Figure 5

APPENDIX A

AIR QUALITY MODELING

Student Housing Phase 3 - Santa Rosa Village

Ventura County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	600.00	Student	2.53	118,475.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 118,475 gsf

Demolition -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	110,278.48	118,475.00
tblProjectCharacteristics	OperationalYear	2014	2017

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2015	275.0160	32.5089	23.2841	0.0338	6.6345	1.8793	8.3876	3.3893	1.7600	5.0021	0.0000	3,193.5087	3,193.5087	0.7523	0.0000	3,209.3078
2016	274.9738	2.4160	2.3179	3.9000e-003	0.0822	0.1973	0.2794	0.0218	0.1972	0.2190	0.0000	359.3276	359.3276	0.0372	0.0000	360.1093
Total	**549.9898**	**34.9249**	**25.6020**	**0.0377**	**6.7166**	**2.0765**	**8.6670**	**3.4111**	**1.9572**	**5.2211**	**0.0000**	**3,552.8364**	**3,552.8364**	**0.7896**	**0.0000**	**3,569.4171**

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	lb/day										lb/day					
2015	275.0160	32.5089	23.2841	0.0338	6.6345	1.8793	8.3876	3.3893	1.7600	5.0021	0.0000	3,193.5087	3,193.5087	0.7523	0.0000	3,209.3078
2016	274.9738	2.4160	2.3179	3.9000e-003	0.0822	0.1973	0.2794	0.0218	0.1972	0.2190	0.0000	359.3276	359.3276	0.0372	0.0000	360.1093
Total	**549.9898**	**34.9249**	**25.6020**	**0.0377**	**6.7166**	**2.0765**	**8.6670**	**3.4111**	**1.9572**	**5.2211**	**0.0000**	**3,552.8364**	**3,552.8364**	**0.7896**	**0.0000**	**3,569.4171**

	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**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	3.2936	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Energy	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
Mobile	4.7776	11.0444	46.7063	0.1018	7.6110	0.1284	7.7394	2.0289	0.1182	2.1471		8,624.9605	8,624.9605	0.3492		8,632.2942
Total	**8.1268**	**11.5497**	**47.1926**	**0.1048**	**7.6110**	**0.1670**	**7.7780**	**2.0289**	**0.1568**	**2.1857**		**9,230.7368**	**9,230.7368**	**0.3612**	**0.0111**	**9,241.7640**

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	lb/day										lb/day					
Area	3.2936	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Energy	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
Mobile	4.7776	11.0444	46.7063	0.1018	7.6110	0.1284	7.7394	2.0289	0.1182	2.1471		8,624.9605	8,624.9605	0.3492		8,632.2942
Total	**8.1268**	**11.5497**	**47.1926**	**0.1048**	**7.6110**	**0.1670**	**7.7780**	**2.0289**	**0.1568**	**2.1857**		**9,230.7368**	**9,230.7368**	**0.3612**	**0.0111**	**9,241.7640**

	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	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/2/2015	5	3	
3	Grading	Grading	2/3/2015	2/10/2015	5	6	
4	Building Construction	Building Construction	2/11/2015	12/15/2015	5	220	
5	Paving	Paving	12/16/2015	12/29/2015	5	10	
6	Architectural Coating	Architectural Coating	12/30/2015	1/12/2016	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 177,713; Non-Residential Outdoor: 59,238 (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
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Scrapers	1	8.00	361	0.48
Building Construction	Welders	3	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
Demolition	5	13.00	0.00	45.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	50.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4983	0.0000	0.4983	0.0755	0.0000	0.0755			0.0000			0.0000
Off-Road	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104
Total	**3.0666**	**29.6778**	**22.0566**	**0.0245**	**0.4983**	**1.8651**	**2.3634**	**0.0755**	**1.7469**	**1.8224**		**2,509.0599**	**2,509.0599**	**0.6357**		**2,522.4104**

3.2 Demolition - 2015

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	lb/day										lb/day					
Hauling	0.0484	0.7915	0.5981	1.6200e-003	0.0390	0.0133	0.0523	0.0107	0.0122	0.0229		165.0361	165.0361	1.2300e-003		165.0620
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
Worker	0.0552	0.0634	0.6294	1.2100e-003	0.1068	8.7000e-004	0.1077	0.0283	7.9000e-004	0.0291		104.9608	104.9608	5.7400e-003		105.0814
Total	**0.1035**	**0.8549**	**1.2275**	**2.8300e-003**	**0.1458**	**0.0142**	**0.1600**	**0.0390**	**0.0130**	**0.0520**		**269.9969**	**269.9969**	**6.9700e-003**		**270.1434**

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	lb/day										lb/day					
Fugitive Dust					0.4983	0.0000	0.4983	0.0755	0.0000	0.0755			0.0000			0.0000
Off-Road	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469	0.0000	2,509.0599	2,509.0599	0.6357		2,522.4104
Total	**3.0666**	**29.6778**	**22.0566**	**0.0245**	**0.4983**	**1.8651**	**2.3634**	**0.0755**	**1.7469**	**1.8224**	**0.0000**	**2,509.0599**	**2,509.0599**	**0.6357**		**2,522.4104**

3.2 Demolition - 2015

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	lb/day										lb/day					
Hauling	0.0484	0.7915	0.5981	1.6200e-003	0.0390	0.0133	0.0523	0.0107	0.0122	0.0229		165.0361	165.0361	1.2300e-003		165.0620
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
Worker	0.0552	0.0634	0.6294	1.2100e-003	0.1068	8.7000e-004	0.1077	0.0283	7.9000e-004	0.0291		104.9608	104.9608	5.7400e-003		105.0814
Total	**0.1035**	**0.8549**	**1.2275**	**2.8300e-003**	**0.1458**	**0.0142**	**0.1600**	**0.0390**	**0.0130**	**0.0520**		**269.9969**	**269.9969**	**6.9700e-003**		**270.1434**

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695		2,508.1983	2,508.1983	0.7488		2,523.9231
Total	**2.8203**	**32.4699**	**18.6797**	**0.0239**	**1.5908**	**1.5973**	**3.1881**	**0.1718**	**1.4695**	**1.6413**		**2,508.1983**	**2,508.1983**	**0.7488**		**2,523.9231**

3.3 Site Preparation - 2015

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	lb/day										lb/day					
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
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
Worker	0.0339	0.0390	0.3873	7.5000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		64.5913	64.5913	3.5300e-003		64.6655
Total	**0.0339**	**0.0390**	**0.3873**	**7.5000e-004**	**0.0657**	**5.3000e-004**	**0.0663**	**0.0174**	**4.9000e-004**	**0.0179**		**64.5913**	**64.5913**	**3.5300e-003**		**64.6655**

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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695	0.0000	2,508.1983	2,508.1983	0.7488		2,523.9231
Total	**2.8203**	**32.4699**	**18.6797**	**0.0239**	**1.5908**	**1.5973**	**3.1881**	**0.1718**	**1.4695**	**1.6413**	**0.0000**	**2,508.1983**	**2,508.1983**	**0.7488**		**2,523.9231**

3.3 Site Preparation - 2015

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	lb/day										lb/day					
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
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
Worker	0.0339	0.0390	0.3873	7.5000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		64.5913	64.5913	3.5300e-003		64.6655
Total	**0.0339**	**0.0390**	**0.3873**	**7.5000e-004**	**0.0657**	**5.3000e-004**	**0.0663**	**0.0174**	**4.9000e-004**	**0.0179**		**64.5913**	**64.5913**	**3.5300e-003**		**64.6655**

3.4 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122		2,164.1012	2,164.1012	0.6461		2,177.6687
Total	**2.9656**	**31.2611**	**20.2019**	**0.0206**	**6.5523**	**1.7524**	**8.3048**	**3.3675**	**1.6122**	**4.9797**		**2,164.1012**	**2,164.1012**	**0.6461**		**2,177.6687**

3.4 Grading - 2015

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	lb/day										lb/day					
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
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
Worker	0.0424	0.0488	0.4841	9.3000e-004	0.0822	6.7000e-004	0.0828	0.0218	6.1000e-004	0.0224		80.7391	80.7391	4.4200e-003		80.8319
Total	**0.0424**	**0.0488**	**0.4841**	**9.3000e-004**	**0.0822**	**6.7000e-004**	**0.0828**	**0.0218**	**6.1000e-004**	**0.0224**		**80.7391**	**80.7391**	**4.4200e-003**		**80.8319**

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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122	0.0000	2,164.1012	2,164.1012	0.6461		2,177.6687
Total	**2.9656**	**31.2611**	**20.2019**	**0.0206**	**6.5523**	**1.7524**	**8.3048**	**3.3675**	**1.6122**	**4.9797**	**0.0000**	**2,164.1012**	**2,164.1012**	**0.6461**		**2,177.6687**

3.4 Grading - 2015

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	lb/day										lb/day					
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
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
Worker	0.0424	0.0488	0.4841	9.3000e-004	0.0822	6.7000e-004	0.0828	0.0218	6.1000e-004	0.0224		80.7391	80.7391	4.4200e-003		80.8319
Total	**0.0424**	**0.0488**	**0.4841**	**9.3000e-004**	**0.0822**	**6.7000e-004**	**0.0828**	**0.0218**	**6.1000e-004**	**0.0224**		**80.7391**	**80.7391**	**4.4200e-003**		**80.8319**

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	**4.0268**	**25.8389**	**17.0465**	**0.0249**		**1.7597**	**1.7597**		**1.6870**	**1.6870**		**2,364.0797**	**2,364.0797**	**0.5662**		**2,375.9701**

3.5 Building Construction - 2015

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	lb/day										lb/day					
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
Vendor	0.2205	2.1564	2.8424	4.2200e-003	0.1249	0.0381	0.1629	0.0355	0.0350	0.0705		425.7335	425.7335	3.3600e-003		425.8040
Worker	0.2121	0.2438	2.4207	4.6600e-003	0.4107	3.3300e-003	0.4141	0.1090	3.0500e-003	0.1120		403.6955	403.6955	0.0221		404.1594
Total	**0.4327**	**2.4002**	**5.2631**	**8.8800e-003**	**0.5356**	**0.0414**	**0.5770**	**0.1444**	**0.0381**	**0.1825**		**829.4290**	**829.4290**	**0.0255**		**829.9633**

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	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870	0.0000	2,364.0797	2,364.0797	0.5662		2,375.9701
Total	**4.0268**	**25.8389**	**17.0465**	**0.0249**		**1.7597**	**1.7597**		**1.6870**	**1.6870**	**0.0000**	**2,364.0797**	**2,364.0797**	**0.5662**		**2,375.9701**

3.5 Building Construction - 2015

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	lb/day										lb/day					
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
Vendor	0.2205	2.1564	2.8424	4.2200e-003	0.1249	0.0381	0.1629	0.0355	0.0350	0.0705		425.7335	425.7335	3.3600e-003		425.8040
Worker	0.2121	0.2438	2.4207	4.6600e-003	0.4107	3.3300e-003	0.4141	0.1090	3.0500e-003	0.1120		403.6955	403.6955	0.0221		404.1594
Total	**0.4327**	**2.4002**	**5.2631**	**8.8800e-003**	**0.5356**	**0.0414**	**0.5770**	**0.1444**	**0.0381**	**0.1825**		**829.4290**	**829.4290**	**0.0255**		**829.9633**

3.6 Paving - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9443**	**19.7532**	**12.2652**	**0.0176**		**1.2418**	**1.2418**		**1.1437**	**1.1437**		**1,823.2763**	**1,823.2763**	**0.5345**		**1,834.5006**

3.6 Paving - 2015

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	lb/day										lb/day					
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
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
Worker	0.0636	0.0731	0.7262	1.4000e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.1087	121.1087	6.6300e-003		121.2478
Total	**0.0636**	**0.0731**	**0.7262**	**1.4000e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**121.1087**	**121.1087**	**6.6300e-003**		**121.2478**

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	lb/day										lb/day					
Off-Road	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437	0.0000	1,823.2763	1,823.2763	0.5345		1,834.5006
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9443**	**19.7532**	**12.2652**	**0.0176**		**1.2418**	**1.2418**		**1.1437**	**1.1437**	**0.0000**	**1,823.2763**	**1,823.2763**	**0.5345**		**1,834.5006**

3.6 Paving - 2015

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	lb/day										lb/day					
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
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
Worker	0.0636	0.0731	0.7262	1.4000e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		121.1087	121.1087	6.6300e-003		121.2478
Total	**0.0636**	**0.0731**	**0.7262**	**1.4000e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**121.1087**	**121.1087**	**6.6300e-003**		**121.2478**

3.7 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	274.5670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	**274.9736**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**		**281.4481**	**281.4481**	**0.0367**		**282.2177**

3.7 Architectural Coating - 2015

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	lb/day										lb/day					
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
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
Worker	0.0424	0.0488	0.4841	9.3000e-004	0.0822	6.7000e-004	0.0828	0.0218	6.1000e-004	0.0224		80.7391	80.7391	4.4200e-003		80.8319
Total	**0.0424**	**0.0488**	**0.4841**	**9.3000e-004**	**0.0822**	**6.7000e-004**	**0.0828**	**0.0218**	**6.1000e-004**	**0.0224**		**80.7391**	**80.7391**	**4.4200e-003**		**80.8319**

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	lb/day										lb/day					
Archit. Coating	274.5670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	**274.9736**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**	**0.0000**	**281.4481**	**281.4481**	**0.0367**		**282.2177**

3.7 Architectural Coating - 2015

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	lb/day										lb/day					
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
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
Worker	0.0424	0.0488	0.4841	9.3000e-004	0.0822	6.7000e-004	0.0828	0.0218	6.1000e-004	0.0224		80.7391	80.7391	4.4200e-003		80.8319
Total	**0.0424**	**0.0488**	**0.4841**	**9.3000e-004**	**0.0822**	**6.7000e-004**	**0.0828**	**0.0218**	**6.1000e-004**	**0.0224**		**80.7391**	**80.7391**	**4.4200e-003**		**80.8319**

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	274.5670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	**274.9354**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**		**281.4481**	**281.4481**	**0.0332**		**282.1449**

3.7 Architectural Coating - 2016

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	lb/day										lb/day					
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
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
Worker	0.0384	0.0438	0.4340	9.3000e-004	0.0822	6.3000e-004	0.0828	0.0218	5.8000e-004	0.0224		77.8796	77.8796	4.0400e-003		77.9645
Total	**0.0384**	**0.0438**	**0.4340**	**9.3000e-004**	**0.0822**	**6.3000e-004**	**0.0828**	**0.0218**	**5.8000e-004**	**0.0224**		**77.8796**	**77.8796**	**4.0400e-003**		**77.9645**

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	lb/day										lb/day					
Archit. Coating	274.5670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
Total	**274.9354**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**	**0.0000**	**281.4481**	**281.4481**	**0.0332**		**282.1449**

3.7 Architectural Coating - 2016

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	lb/day										lb/day					
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
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
Worker	0.0384	0.0438	0.4340	9.3000e-004	0.0822	6.3000e-004	0.0828	0.0218	5.8000e-004	0.0224		77.8796	77.8796	4.0400e-003		77.9645
Total	**0.0384**	**0.0438**	**0.4340**	**9.3000e-004**	**0.0822**	**6.3000e-004**	**0.0828**	**0.0218**	**5.8000e-004**	**0.0224**		**77.8796**	**77.8796**	**4.0400e-003**		**77.9645**

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	lb/day										lb/day					
Mitigated	4.7776	11.0444	46.7063	0.1018	7.6110	0.1284	7.7394	2.0289	0.1182	2.1471		8,624.9605	8,624.9605	0.3492		8,632.2942
Unmitigated	4.7776	11.0444	46.7063	0.1018	7.6110	0.1284	7.7394	2.0289	0.1182	2.1471		8,624.9605	8,624.9605	0.3492		8,632.2942

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
University/College (4Yr)	1,428.00	780.00	0.00	2,857,571	2,857,571
Total	1,428.00	780.00	0.00	2,857,571	2,857,571

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
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.474465	0.063133	0.180505	0.158349	0.070139	0.010387	0.013452	0.017129	0.000779	0.000670	0.005599	0.000320	0.005072

4.4 Fleet Mix

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	lb/day										lb/day					
NaturalGas Mitigated	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
NaturalGas Unmitigated	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308

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	lb/day										lb/day					
University/College (4Yr)	5147.98	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
Total		**0.0555**	**0.5047**	**0.4240**	**3.0300e-003**		**0.0384**	**0.0384**		**0.0384**	**0.0384**		**605.6450**	**605.6450**	**0.0116**	**0.0111**	**609.3308**

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	lb/day										lb/day					
University/College (4Yr)	5.14798	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
Total		**0.0555**	**0.5047**	**0.4240**	**3.0300e-003**		**0.0384**	**0.0384**		**0.0384**	**0.0384**		**605.6450**	**605.6450**	**0.0116**	**0.0111**	**609.3308**

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	lb/day										lb/day					
Mitigated	3.2936	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Unmitigated	3.2936	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390

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	lb/day										lb/day					
Architectural Coating	0.7522					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5354					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0200e-003	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Total	**3.2936**	**5.9000e-004**	**0.0624**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1313**	**0.1313**	**3.7000e-004**		**0.1390**

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	lb/day										lb/day					
Architectural Coating	0.7522					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5354					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0200e-003	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Total	**3.2936**	**5.9000e-004**	**0.0624**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1313**	**0.1313**	**3.7000e-004**		**0.1390**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Student Housing Phase 3 - Santa Rosa Village

Ventura County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	600.00	Student	2.53	118,475.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 118,475 gsf

Demolition -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	110,278.48	118,475.00
tblProjectCharacteristics	OperationalYear	2014	2017

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2015	275.0128	32.5032	23.1529	0.0340	6.6345	1.8792	8.3876	3.3893	1.7599	5.0021	0.0000	3,217.3061	3,217.3061	0.7523	0.0000	3,233.1052
2016	274.9710	2.4097	2.3137	3.9500e-003	0.0822	0.1973	0.2794	0.0218	0.1972	0.2190	0.0000	363.2510	363.2510	0.0372	0.0000	364.0327
Total	**549.9838**	**34.9128**	**25.4666**	**0.0380**	**6.7166**	**2.0765**	**8.6670**	**3.4111**	**1.9571**	**5.2211**	**0.0000**	**3,580.5571**	**3,580.5571**	**0.7896**	**0.0000**	**3,597.1378**

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	lb/day										lb/day					
2015	275.0128	32.5032	23.1529	0.0340	6.6345	1.8792	8.3876	3.3893	1.7599	5.0021	0.0000	3,217.3061	3,217.3061	0.7523	0.0000	3,233.1052
2016	274.9710	2.4097	2.3137	3.9500e-003	0.0822	0.1973	0.2794	0.0218	0.1972	0.2190	0.0000	363.2510	363.2510	0.0372	0.0000	364.0327
Total	**549.9838**	**34.9128**	**25.4666**	**0.0380**	**6.7166**	**2.0765**	**8.6670**	**3.4111**	**1.9571**	**5.2211**	**0.0000**	**3,580.5571**	**3,580.5571**	**0.7896**	**0.0000**	**3,597.1378**

	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**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	lb/day										lb/day					
Area	3.2936	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Energy	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
Mobile	4.4249	10.2142	42.6457	0.1058	7.6110	0.1277	7.7387	2.0289	0.1175	2.1464		8,963.9801	8,963.9801	0.3490		8,971.3090
Total	**7.7740**	**10.7195**	**43.1321**	**0.1089**	**7.6110**	**0.1663**	**7.7773**	**2.0289**	**0.1561**	**2.1850**		**9,569.7564**	**9,569.7564**	**0.3610**	**0.0111**	**9,580.7789**

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	lb/day										lb/day					
Area	3.2936	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Energy	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
Mobile	4.4249	10.2142	42.6457	0.1058	7.6110	0.1277	7.7387	2.0289	0.1175	2.1464		8,963.9801	8,963.9801	0.3490		8,971.3090
Total	**7.7740**	**10.7195**	**43.1321**	**0.1089**	**7.6110**	**0.1663**	**7.7773**	**2.0289**	**0.1561**	**2.1850**		**9,569.7564**	**9,569.7564**	**0.3610**	**0.0111**	**9,580.7789**

	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	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/2/2015	5	3	
3	Grading	Grading	2/3/2015	2/10/2015	5	6	
4	Building Construction	Building Construction	2/11/2015	12/15/2015	5	220	
5	Paving	Paving	12/16/2015	12/29/2015	5	10	
6	Architectural Coating	Architectural Coating	12/30/2015	1/12/2016	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 177,713; Non-Residential Outdoor: 59,238 (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
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Scrapers	1	8.00	361	0.48
Building Construction	Welders	3	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
Demolition	5	13.00	0.00	45.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	50.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4983	0.0000	0.4983	0.0755	0.0000	0.0755			0.0000			0.0000
Off-Road	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469		2,509.0599	2,509.0599	0.6357		2,522.4104
Total	**3.0666**	**29.6778**	**22.0566**	**0.0245**	**0.4983**	**1.8651**	**2.3634**	**0.0755**	**1.7469**	**1.8224**		**2,509.0599**	**2,509.0599**	**0.6357**		**2,522.4104**

3.2 Demolition - 2015

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	lb/day										lb/day					
Hauling	0.0430	0.7634	0.4762	1.6300e-003	0.0390	0.0132	0.0523	0.0107	0.0122	0.0228		165.4362	165.4362	1.2100e-003		165.4617
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
Worker	0.0510	0.0542	0.6201	1.2700e-003	0.1068	8.7000e-004	0.1077	0.0283	7.9000e-004	0.0291		110.2426	110.2426	5.7400e-003		110.3632
Total	**0.0940**	**0.8175**	**1.0963**	**2.9000e-003**	**0.1458**	**0.0141**	**0.1599**	**0.0390**	**0.0130**	**0.0520**		**275.6788**	**275.6788**	**6.9500e-003**		**275.8249**

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	lb/day										lb/day					
Fugitive Dust					0.4983	0.0000	0.4983	0.0755	0.0000	0.0755			0.0000			0.0000
Off-Road	3.0666	29.6778	22.0566	0.0245		1.8651	1.8651		1.7469	1.7469	0.0000	2,509.0599	2,509.0599	0.6357		2,522.4104
Total	**3.0666**	**29.6778**	**22.0566**	**0.0245**	**0.4983**	**1.8651**	**2.3634**	**0.0755**	**1.7469**	**1.8224**	**0.0000**	**2,509.0599**	**2,509.0599**	**0.6357**		**2,522.4104**

3.2 Demolition - 2015

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	lb/day										lb/day					
Hauling	0.0430	0.7634	0.4762	1.6300e-003	0.0390	0.0132	0.0523	0.0107	0.0122	0.0228		165.4362	165.4362	1.2100e-003		165.4617
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
Worker	0.0510	0.0542	0.6201	1.2700e-003	0.1068	8.7000e-004	0.1077	0.0283	7.9000e-004	0.0291		110.2426	110.2426	5.7400e-003		110.3632
Total	**0.0940**	**0.8175**	**1.0963**	**2.9000e-003**	**0.1458**	**0.0141**	**0.1599**	**0.0390**	**0.0130**	**0.0520**		**275.6788**	**275.6788**	**6.9500e-003**		**275.8249**

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695		2,508.1983	2,508.1983	0.7488		2,523.9231
Total	**2.8203**	**32.4699**	**18.6797**	**0.0239**	**1.5908**	**1.5973**	**3.1881**	**0.1718**	**1.4695**	**1.6413**		**2,508.1983**	**2,508.1983**	**0.7488**		**2,523.9231**

3.3 Site Preparation - 2015

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	lb/day										lb/day					
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
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
Worker	0.0314	0.0333	0.3816	7.8000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		67.8416	67.8416	3.5300e-003		67.9158
Total	**0.0314**	**0.0333**	**0.3816**	**7.8000e-004**	**0.0657**	**5.3000e-004**	**0.0663**	**0.0174**	**4.9000e-004**	**0.0179**		**67.8416**	**67.8416**	**3.5300e-003**		**67.9158**

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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.8203	32.4699	18.6797	0.0239		1.5973	1.5973		1.4695	1.4695	0.0000	2,508.1983	2,508.1983	0.7488		2,523.9231
Total	**2.8203**	**32.4699**	**18.6797**	**0.0239**	**1.5908**	**1.5973**	**3.1881**	**0.1718**	**1.4695**	**1.6413**	**0.0000**	**2,508.1983**	**2,508.1983**	**0.7488**		**2,523.9231**

3.3 Site Preparation - 2015

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	lb/day										lb/day					
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
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
Worker	0.0314	0.0333	0.3816	7.8000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		67.8416	67.8416	3.5300e-003		67.9158
Total	**0.0314**	**0.0333**	**0.3816**	**7.8000e-004**	**0.0657**	**5.3000e-004**	**0.0663**	**0.0174**	**4.9000e-004**	**0.0179**		**67.8416**	**67.8416**	**3.5300e-003**		**67.9158**

3.4 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122		2,164.1012	2,164.1012	0.6461		2,177.6687
Total	**2.9656**	**31.2611**	**20.2019**	**0.0206**	**6.5523**	**1.7524**	**8.3048**	**3.3675**	**1.6122**	**4.9797**		**2,164.1012**	**2,164.1012**	**0.6461**		**2,177.6687**

3.4 Grading - 2015

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	lb/day										lb/day					
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
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
Worker	0.0392	0.0417	0.4770	9.8000e-004	0.0822	6.7000e-004	0.0828	0.0218	6.1000e-004	0.0224		84.8020	84.8020	4.4200e-003		84.8948
Total	**0.0392**	**0.0417**	**0.4770**	**9.8000e-004**	**0.0822**	**6.7000e-004**	**0.0828**	**0.0218**	**6.1000e-004**	**0.0224**		**84.8020**	**84.8020**	**4.4200e-003**		**84.8948**

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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.9656	31.2611	20.2019	0.0206		1.7524	1.7524		1.6122	1.6122	0.0000	2,164.1012	2,164.1012	0.6461		2,177.6687
Total	**2.9656**	**31.2611**	**20.2019**	**0.0206**	**6.5523**	**1.7524**	**8.3048**	**3.3675**	**1.6122**	**4.9797**	**0.0000**	**2,164.1012**	**2,164.1012**	**0.6461**		**2,177.6687**

3.4 Grading - 2015

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	lb/day										lb/day					
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
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
Worker	0.0392	0.0417	0.4770	9.8000e-004	0.0822	6.7000e-004	0.0828	0.0218	6.1000e-004	0.0224		84.8020	84.8020	4.4200e-003		84.8948
Total	**0.0392**	**0.0417**	**0.4770**	**9.8000e-004**	**0.0822**	**6.7000e-004**	**0.0828**	**0.0218**	**6.1000e-004**	**0.0224**		**84.8020**	**84.8020**	**4.4200e-003**		**84.8948**

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870		2,364.0797	2,364.0797	0.5662		2,375.9701
Total	**4.0268**	**25.8389**	**17.0465**	**0.0249**		**1.7597**	**1.7597**		**1.6870**	**1.6870**		**2,364.0797**	**2,364.0797**	**0.5662**		**2,375.9701**

3.5 Building Construction - 2015

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	lb/day										lb/day					
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
Vendor	0.1849	2.0938	2.0921	4.2400e-003	0.1249	0.0375	0.1624	0.0355	0.0345	0.0700		429.2165	429.2165	3.2600e-003		429.2849
Worker	0.1960	0.2083	2.3850	4.8900e-003	0.4107	3.3300e-003	0.4141	0.1090	3.0500e-003	0.1120		424.0099	424.0099	0.0221		424.4738
Total	**0.3808**	**2.3021**	**4.4771**	**9.1300e-003**	**0.5356**	**0.0409**	**0.5765**	**0.1444**	**0.0376**	**0.1820**		**853.2264**	**853.2264**	**0.0254**		**853.7587**

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	lb/day										lb/day					
Off-Road	4.0268	25.8389	17.0465	0.0249		1.7597	1.7597		1.6870	1.6870	0.0000	2,364.0797	2,364.0797	0.5662		2,375.9701
Total	**4.0268**	**25.8389**	**17.0465**	**0.0249**		**1.7597**	**1.7597**		**1.6870**	**1.6870**	**0.0000**	**2,364.0797**	**2,364.0797**	**0.5662**		**2,375.9701**

3.5 Building Construction - 2015

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	lb/day										lb/day					
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
Vendor	0.1849	2.0938	2.0921	4.2400e-003	0.1249	0.0375	0.1624	0.0355	0.0345	0.0700		429.2165	429.2165	3.2600e-003		429.2849
Worker	0.1960	0.2083	2.3850	4.8900e-003	0.4107	3.3300e-003	0.4141	0.1090	3.0500e-003	0.1120		424.0099	424.0099	0.0221		424.4738
Total	**0.3808**	**2.3021**	**4.4771**	**9.1300e-003**	**0.5356**	**0.0409**	**0.5765**	**0.1444**	**0.0376**	**0.1820**		**853.2264**	**853.2264**	**0.0254**		**853.7587**

3.6 Paving - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437		1,823.2763	1,823.2763	0.5345		1,834.5006
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9443**	**19.7532**	**12.2652**	**0.0176**		**1.2418**	**1.2418**		**1.1437**	**1.1437**		**1,823.2763**	**1,823.2763**	**0.5345**		**1,834.5006**

3.6 Paving - 2015

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	lb/day										lb/day					
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
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
Worker	0.0588	0.0625	0.7155	1.4700e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		127.2030	127.2030	6.6300e-003		127.3421
Total	**0.0588**	**0.0625**	**0.7155**	**1.4700e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**127.2030**	**127.2030**	**6.6300e-003**		**127.3421**

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	lb/day										lb/day					
Off-Road	1.9443	19.7532	12.2652	0.0176		1.2418	1.2418		1.1437	1.1437	0.0000	1,823.2763	1,823.2763	0.5345		1,834.5006
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.9443**	**19.7532**	**12.2652**	**0.0176**		**1.2418**	**1.2418**		**1.1437**	**1.1437**	**0.0000**	**1,823.2763**	**1,823.2763**	**0.5345**		**1,834.5006**

3.6 Paving - 2015

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	lb/day										lb/day					
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
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
Worker	0.0588	0.0625	0.7155	1.4700e-003	0.1232	1.0000e-003	0.1242	0.0327	9.2000e-004	0.0336		127.2030	127.2030	6.6300e-003		127.3421
Total	**0.0588**	**0.0625**	**0.7155**	**1.4700e-003**	**0.1232**	**1.0000e-003**	**0.1242**	**0.0327**	**9.2000e-004**	**0.0336**		**127.2030**	**127.2030**	**6.6300e-003**		**127.3421**

3.7 Architectural Coating - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	274.5670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	**274.9736**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**		**281.4481**	**281.4481**	**0.0367**		**282.2177**

3.7 Architectural Coating - 2015

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	lb/day										lb/day					
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
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
Worker	0.0392	0.0417	0.4770	9.8000e-004	0.0822	6.7000e-004	0.0828	0.0218	6.1000e-004	0.0224		84.8020	84.8020	4.4200e-003		84.8948
Total	**0.0392**	**0.0417**	**0.4770**	**9.8000e-004**	**0.0822**	**6.7000e-004**	**0.0828**	**0.0218**	**6.1000e-004**	**0.0224**		**84.8020**	**84.8020**	**4.4200e-003**		**84.8948**

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	lb/day										lb/day					
Archit. Coating	274.5670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209	0.0000	281.4481	281.4481	0.0367		282.2177
Total	**274.9736**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**	**0.0000**	**281.4481**	**281.4481**	**0.0367**		**282.2177**

3.7 Architectural Coating - 2015

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	lb/day										lb/day					
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
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
Worker	0.0392	0.0417	0.4770	9.8000e-004	0.0822	6.7000e-004	0.0828	0.0218	6.1000e-004	0.0224		84.8020	84.8020	4.4200e-003		84.8948
Total	**0.0392**	**0.0417**	**0.4770**	**9.8000e-004**	**0.0822**	**6.7000e-004**	**0.0828**	**0.0218**	**6.1000e-004**	**0.0224**		**84.8020**	**84.8020**	**4.4200e-003**		**84.8948**

3.7 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	274.5670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	**274.9354**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**		**281.4481**	**281.4481**	**0.0332**		**282.1449**

3.7 Architectural Coating - 2016

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	lb/day										lb/day					
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
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
Worker	0.0356	0.0374	0.4298	9.8000e-004	0.0822	6.3000e-004	0.0828	0.0218	5.8000e-004	0.0224		81.8030	81.8030	4.0400e-003		81.8878
Total	**0.0356**	**0.0374**	**0.4298**	**9.8000e-004**	**0.0822**	**6.3000e-004**	**0.0828**	**0.0218**	**5.8000e-004**	**0.0224**		**81.8030**	**81.8030**	**4.0400e-003**		**81.8878**

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	lb/day										lb/day					
Archit. Coating	274.5670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
Total	**274.9354**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**	**0.0000**	**281.4481**	**281.4481**	**0.0332**		**282.1449**

3.7 Architectural Coating - 2016

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	lb/day										lb/day					
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
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
Worker	0.0356	0.0374	0.4298	9.8000e-004	0.0822	6.3000e-004	0.0828	0.0218	5.8000e-004	0.0224		81.8030	81.8030	4.0400e-003		81.8878
Total	**0.0356**	**0.0374**	**0.4298**	**9.8000e-004**	**0.0822**	**6.3000e-004**	**0.0828**	**0.0218**	**5.8000e-004**	**0.0224**		**81.8030**	**81.8030**	**4.0400e-003**		**81.8878**

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	lb/day										lb/day					
Mitigated	4.4249	10.2142	42.6457	0.1058	7.6110	0.1277	7.7387	2.0289	0.1175	2.1464		8,963.9801	8,963.9801	0.3490		8,971.3090
Unmitigated	4.4249	10.2142	42.6457	0.1058	7.6110	0.1277	7.7387	2.0289	0.1175	2.1464		8,963.9801	8,963.9801	0.3490		8,971.3090

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
University/College (4Yr)	1,428.00	780.00	0.00	2,857,571	2,857,571
Total	1,428.00	780.00	0.00	2,857,571	2,857,571

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
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.474465	0.063133	0.180505	0.158349	0.070139	0.010387	0.013452	0.017129	0.000779	0.000670	0.005599	0.000320	0.005072

4.4 Fleet Mix

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	lb/day										lb/day					
NaturalGas Mitigated	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
NaturalGas Unmitigated	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308

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	lb/day										lb/day					
University/College (4Yr)	5147.98	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
Total		**0.0555**	**0.5047**	**0.4240**	**3.0300e-003**		**0.0384**	**0.0384**		**0.0384**	**0.0384**		**605.6450**	**605.6450**	**0.0116**	**0.0111**	**609.3308**

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	lb/day										lb/day					
University/College (4Yr)	5.14798	0.0555	0.5047	0.4240	3.0300e-003		0.0384	0.0384		0.0384	0.0384		605.6450	605.6450	0.0116	0.0111	609.3308
Total		**0.0555**	**0.5047**	**0.4240**	**3.0300e-003**		**0.0384**	**0.0384**		**0.0384**	**0.0384**		**605.6450**	**605.6450**	**0.0116**	**0.0111**	**609.3308**

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	lb/day										lb/day					
Mitigated	3.2936	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Unmitigated	3.2936	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390

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	lb/day										lb/day					
Architectural Coating	0.7522					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5354					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0200e-003	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Total	**3.2936**	**5.9000e-004**	**0.0624**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1313**	**0.1313**	**3.7000e-004**		**0.1390**

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	lb/day										lb/day					
Architectural Coating	0.7522					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5354					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0200e-003	5.9000e-004	0.0624	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1313	0.1313	3.7000e-004		0.1390
Total	**3.2936**	**5.9000e-004**	**0.0624**	**0.0000**		**2.3000e-004**	**2.3000e-004**		**2.3000e-004**	**2.3000e-004**		**0.1313**	**0.1313**	**3.7000e-004**		**0.1390**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Student Housing Phase 3 - Santa Rosa Village

Ventura County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	600.00	Student	2.53	118,475.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	31
Climate Zone	8			**Operational Year**	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 118,475 gsf

Demolition -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	110,278.48	118,475.00
tblProjectCharacteristics	OperationalYear	2014	2017

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					
2015	0.8166	3.6571	2.8000	4.1900e-003	0.0874	0.2310	0.3183	0.0274	0.2203	0.2477	0.0000	363.1929	363.1929	0.0702	0.0000	364.6661
2016	1.0999	9.6600e-003	9.2300e-003	2.0000e-005	3.2000e-004	7.9000e-004	1.1100e-003	9.0000e-005	7.9000e-004	8.7000e-004	0.0000	1.3062	1.3062	1.4000e-004	0.0000	1.3090
Total	**1.9165**	**3.6668**	**2.8092**	**4.2100e-003**	**0.0877**	**0.2318**	**0.3194**	**0.0275**	**0.2211**	**0.2486**	**0.0000**	**364.4990**	**364.4990**	**0.0703**	**0.0000**	**365.9751**

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					
2015	0.8166	3.6571	2.8000	4.1900e-003	0.0874	0.2310	0.3183	0.0274	0.2203	0.2477	0.0000	363.1925	363.1925	0.0702	0.0000	364.6657
2016	1.0999	9.6600e-003	9.2300e-003	2.0000e-005	3.2000e-004	7.9000e-004	1.1100e-003	9.0000e-005	7.9000e-004	8.7000e-004	0.0000	1.3062	1.3062	1.4000e-004	0.0000	1.3090
Total	**1.9165**	**3.6668**	**2.8092**	**4.2100e-003**	**0.0877**	**0.2318**	**0.3194**	**0.0275**	**0.2211**	**0.2486**	**0.0000**	**364.4987**	**364.4987**	**0.0703**	**0.0000**	**365.9747**

	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**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.6005	5.0000e-005	5.6200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0114
Energy	0.0101	0.0921	0.0774	5.5000e-004		7.0000e-003	7.0000e-003		7.0000e-003	7.0000e-003	0.0000	576.6172	576.6172	0.0238	6.3700e-003	579.0916
Mobile	0.6413	1.5775	6.3906	0.0148	1.0775	0.0184	1.0959	0.2877	0.0170	0.3046	0.0000	1,134.4580	1,134.4580	0.0456	0.0000	1,135.4159
Waste						0.0000	0.0000		0.0000	0.0000	22.2275	0.0000	22.2275	1.3136	0.0000	49.8133
Water						0.0000	0.0000		0.0000	0.0000	0.4076	11.1752	11.5828	0.0424	1.0900e-003	12.8120
Total	**1.2520**	**1.6696**	**6.4736**	**0.0153**	**1.0775**	**0.0255**	**1.1029**	**0.2877**	**0.0240**	**0.3116**	**22.6351**	**1,722.2611**	**1,744.8962**	**1.4254**	**7.4600e-003**	**1,777.1441**

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	0.6005	5.0000e-005	5.6200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0114
Energy	0.0101	0.0921	0.0774	5.5000e-004		7.0000e-003	7.0000e-003		7.0000e-003	7.0000e-003	0.0000	576.6172	576.6172	0.0238	6.3700e-003	579.0916
Mobile	0.6413	1.5775	6.3906	0.0148	1.0775	0.0184	1.0959	0.2877	0.0170	0.3046	0.0000	1,134.4580	1,134.4580	0.0456	0.0000	1,135.4159
Waste						0.0000	0.0000		0.0000	0.0000	22.2275	0.0000	22.2275	1.3136	0.0000	49.8133
Water						0.0000	0.0000		0.0000	0.0000	0.4076	11.1752	11.5828	0.0424	1.0900e-003	12.8113
Total	**1.2520**	**1.6696**	**6.4736**	**0.0153**	**1.0775**	**0.0255**	**1.1029**	**0.2877**	**0.0240**	**0.3116**	**22.6351**	**1,722.2611**	**1,744.8962**	**1.4254**	**7.4600e-003**	**1,777.1434**

	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**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	1/28/2015	5	20	
2	Site Preparation	Site Preparation	1/29/2015	2/2/2015	5	3	
3	Grading	Grading	2/3/2015	2/10/2015	5	6	
4	Building Construction	Building Construction	2/11/2015	12/15/2015	5	220	
5	Paving	Paving	12/16/2015	12/29/2015	5	10	
6	Architectural Coating	Architectural Coating	12/30/2015	1/12/2016	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 177,713; Non-Residential Outdoor: 59,238 (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
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Scrapers	1	8.00	361	0.48
Building Construction	Welders	3	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
Demolition	5	13.00	0.00	45.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	50.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2015

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					4.9800e-003	0.0000	4.9800e-003	7.5000e-004	0.0000	7.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.2968	0.2206	2.4000e-004		0.0187	0.0187		0.0175	0.0175	0.0000	22.7618	22.7618	5.7700e-003	0.0000	22.8829
Total	**0.0307**	**0.2968**	**0.2206**	**2.4000e-004**	**4.9800e-003**	**0.0187**	**0.0236**	**7.5000e-004**	**0.0175**	**0.0182**	**0.0000**	**22.7618**	**22.7618**	**5.7700e-003**	**0.0000**	**22.8829**

3.2 Demolition - 2015

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	4.6000e-004	7.9600e-003	5.4300e-003	2.0000e-005	3.8000e-004	1.3000e-004	5.2000e-004	1.1000e-004	1.2000e-004	2.3000e-004	0.0000	1.4993	1.4993	1.0000e-005	0.0000	1.4995
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	5.1000e-004	6.1000e-004	6.1400e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9598	0.9598	5.0000e-005	0.0000	0.9609
Total	**9.7000e-004**	**8.5700e-003**	**0.0116**	**3.0000e-005**	**1.4300e-003**	**1.4000e-004**	**1.5800e-003**	**3.9000e-004**	**1.3000e-004**	**5.2000e-004**	**0.0000**	**2.4591**	**2.4591**	**6.0000e-005**	**0.0000**	**2.4604**

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					4.9800e-003	0.0000	4.9800e-003	7.5000e-004	0.0000	7.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.2968	0.2206	2.4000e-004		0.0187	0.0187		0.0175	0.0175	0.0000	22.7618	22.7618	5.7700e-003	0.0000	22.8829
Total	**0.0307**	**0.2968**	**0.2206**	**2.4000e-004**	**4.9800e-003**	**0.0187**	**0.0236**	**7.5000e-004**	**0.0175**	**0.0182**	**0.0000**	**22.7618**	**22.7618**	**5.7700e-003**	**0.0000**	**22.8829**

3.2 Demolition - 2015

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	4.6000e-004	7.9600e-003	5.4300e-003	2.0000e-005	3.8000e-004	1.3000e-004	5.2000e-004	1.1000e-004	1.2000e-004	2.3000e-004	0.0000	1.4993	1.4993	1.0000e-005	0.0000	1.4995
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	5.1000e-004	6.1000e-004	6.1400e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9598	0.9598	5.0000e-005	0.0000	0.9609
Total	**9.7000e-004**	**8.5700e-003**	**0.0116**	**3.0000e-005**	**1.4300e-003**	**1.4000e-004**	**1.5800e-003**	**3.9000e-004**	**1.3000e-004**	**5.2000e-004**	**0.0000**	**2.4591**	**2.4591**	**6.0000e-005**	**0.0000**	**2.4604**

3.3 Site Preparation - 2015

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2300e-003	0.0487	0.0280	4.0000e-005		2.4000e-003	2.4000e-003		2.2000e-003	2.2000e-003	0.0000	3.4131	3.4131	1.0200e-003	0.0000	3.4345
Total	**4.2300e-003**	**0.0487**	**0.0280**	**4.0000e-005**	**2.3900e-003**	**2.4000e-003**	**4.7900e-003**	**2.6000e-004**	**2.2000e-003**	**2.4600e-003**	**0.0000**	**3.4131**	**3.4131**	**1.0200e-003**	**0.0000**	**3.4345**

3.3 Site Preparation - 2015

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	5.0000e-005	6.0000e-005	5.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0886	0.0886	0.0000	0.0000	0.0887
Total	**5.0000e-005**	**6.0000e-005**	**5.7000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0886**	**0.0886**	**0.0000**	**0.0000**	**0.0887**

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2300e-003	0.0487	0.0280	4.0000e-005		2.4000e-003	2.4000e-003		2.2000e-003	2.2000e-003	0.0000	3.4131	3.4131	1.0200e-003	0.0000	3.4345
Total	**4.2300e-003**	**0.0487**	**0.0280**	**4.0000e-005**	**2.3900e-003**	**2.4000e-003**	**4.7900e-003**	**2.6000e-004**	**2.2000e-003**	**2.4600e-003**	**0.0000**	**3.4131**	**3.4131**	**1.0200e-003**	**0.0000**	**3.4345**

3.3 Site Preparation - 2015

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	5.0000e-005	6.0000e-005	5.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0886	0.0886	0.0000	0.0000	0.0887
Total	**5.0000e-005**	**6.0000e-005**	**5.7000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0886**	**0.0886**	**0.0000**	**0.0000**	**0.0887**

3.4 Grading - 2015

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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9000e-003	0.0938	0.0606	6.0000e-005		5.2600e-003	5.2600e-003		4.8400e-003	4.8400e-003	0.0000	5.8897	5.8897	1.7600e-003	0.0000	5.9266
Total	**8.9000e-003**	**0.0938**	**0.0606**	**6.0000e-005**	**0.0197**	**5.2600e-003**	**0.0249**	**0.0101**	**4.8400e-003**	**0.0149**	**0.0000**	**5.8897**	**5.8897**	**1.7600e-003**	**0.0000**	**5.9266**

3.4 Grading - 2015

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	1.2000e-004	1.4000e-004	1.4200e-003	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.2215	0.2215	1.0000e-005	0.0000	0.2218
Total	**1.2000e-004**	**1.4000e-004**	**1.4200e-003**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2215**	**0.2215**	**1.0000e-005**	**0.0000**	**0.2218**

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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9000e-003	0.0938	0.0606	6.0000e-005		5.2600e-003	5.2600e-003		4.8400e-003	4.8400e-003	0.0000	5.8897	5.8897	1.7600e-003	0.0000	5.9266
Total	**8.9000e-003**	**0.0938**	**0.0606**	**6.0000e-005**	**0.0197**	**5.2600e-003**	**0.0249**	**0.0101**	**4.8400e-003**	**0.0149**	**0.0000**	**5.8897**	**5.8897**	**1.7600e-003**	**0.0000**	**5.9266**

3.4 Grading - 2015

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	1.2000e-004	1.4000e-004	1.4200e-003	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.2215	0.2215	1.0000e-005	0.0000	0.2218
Total	**1.2000e-004**	**1.4000e-004**	**1.4200e-003**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2215**	**0.2215**	**1.0000e-005**	**0.0000**	**0.2218**

3.5 Building Construction - 2015

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	0.4430	2.8423	1.8751	2.7400e-003		0.1936	0.1936		0.1856	0.1856	0.0000	235.9123	235.9123	0.0565	0.0000	237.0988
Total	**0.4430**	**2.8423**	**1.8751**	**2.7400e-003**		**0.1936**	**0.1936**		**0.1856**	**0.1856**	**0.0000**	**235.9123**	**235.9123**	**0.0565**	**0.0000**	**237.0988**

3.5 Building Construction - 2015

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	0.0223	0.2391	0.2751	4.7000e-004	0.0135	4.1500e-003	0.0177	3.8500e-003	3.8200e-003	7.6700e-003	0.0000	42.6857	42.6857	3.3000e-004	0.0000	42.6926
Worker	0.0215	0.0260	0.2597	5.2000e-004	0.0444	3.7000e-004	0.0447	0.0118	3.4000e-004	0.0121	0.0000	40.6079	40.6079	2.2000e-003	0.0000	40.6542
Total	**0.0437**	**0.2650**	**0.5349**	**9.9000e-004**	**0.0579**	**4.5200e-003**	**0.0624**	**0.0156**	**4.1600e-003**	**0.0198**	**0.0000**	**83.2936**	**83.2936**	**2.5300e-003**	**0.0000**	**83.3468**

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	0.4430	2.8423	1.8751	2.7400e-003		0.1936	0.1936		0.1856	0.1856	0.0000	235.9120	235.9120	0.0565	0.0000	237.0985
Total	**0.4430**	**2.8423**	**1.8751**	**2.7400e-003**		**0.1936**	**0.1936**		**0.1856**	**0.1856**	**0.0000**	**235.9120**	**235.9120**	**0.0565**	**0.0000**	**237.0985**

3.5 Building Construction - 2015

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	0.0223	0.2391	0.2751	4.7000e-004	0.0135	4.1500e-003	0.0177	3.8500e-003	3.8200e-003	7.6700e-003	0.0000	42.6857	42.6857	3.3000e-004	0.0000	42.6926
Worker	0.0215	0.0260	0.2597	5.2000e-004	0.0444	3.7000e-004	0.0447	0.0118	3.4000e-004	0.0121	0.0000	40.6079	40.6079	2.2000e-003	0.0000	40.6542
Total	**0.0437**	**0.2650**	**0.5349**	**9.9000e-004**	**0.0579**	**4.5200e-003**	**0.0624**	**0.0156**	**4.1600e-003**	**0.0198**	**0.0000**	**83.2936**	**83.2936**	**2.5300e-003**	**0.0000**	**83.3468**

3.6 Paving - 2015

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	9.7200e-003	0.0988	0.0613	9.0000e-005		6.2100e-003	6.2100e-003		5.7200e-003	5.7200e-003	0.0000	8.2702	8.2702	2.4200e-003	0.0000	8.3212
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.7200e-003**	**0.0988**	**0.0613**	**9.0000e-005**		**6.2100e-003**	**6.2100e-003**		**5.7200e-003**	**5.7200e-003**	**0.0000**	**8.2702**	**8.2702**	**2.4200e-003**	**0.0000**	**8.3212**

3.6 Paving - 2015

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	2.9000e-004	3.5000e-004	3.5400e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5537	0.5537	3.0000e-005	0.0000	0.5544
Total	**2.9000e-004**	**3.5000e-004**	**3.5400e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.7000e-004**	**0.0000**	**0.5537**	**0.5537**	**3.0000e-005**	**0.0000**	**0.5544**

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	9.7200e-003	0.0988	0.0613	9.0000e-005		6.2100e-003	6.2100e-003		5.7200e-003	5.7200e-003	0.0000	8.2702	8.2702	2.4200e-003	0.0000	8.3211
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.7200e-003**	**0.0988**	**0.0613**	**9.0000e-005**		**6.2100e-003**	**6.2100e-003**		**5.7200e-003**	**5.7200e-003**	**0.0000**	**8.2702**	**8.2702**	**2.4200e-003**	**0.0000**	**8.3211**

3.6 Paving - 2015

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	2.9000e-004	3.5000e-004	3.5400e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5537	0.5537	3.0000e-005	0.0000	0.5544
Total	**2.9000e-004**	**3.5000e-004**	**3.5400e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.7000e-004**	**0.0000**	**0.5537**	**0.5537**	**3.0000e-005**	**0.0000**	**0.5544**

3.7 Architectural Coating - 2015

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	0.2746					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-004	2.5700e-003	1.9000e-003	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560
Total	**0.2750**	**2.5700e-003**	**1.9000e-003**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.2553**	**0.2553**	**3.0000e-005**	**0.0000**	**0.2560**

3.7 Architectural Coating - 2015

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	4.0000e-005	5.0000e-005	4.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0738	0.0738	0.0000	0.0000	0.0739
Total	**4.0000e-005**	**5.0000e-005**	**4.7000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0738**	**0.0738**	**0.0000**	**0.0000**	**0.0739**

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	0.2746					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-004	2.5700e-003	1.9000e-003	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560
Total	**0.2750**	**2.5700e-003**	**1.9000e-003**	**0.0000**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.2553**	**0.2553**	**3.0000e-005**	**0.0000**	**0.2560**

3.7 Architectural Coating - 2015

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	4.0000e-005	5.0000e-005	4.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0738	0.0738	0.0000	0.0000	0.0739
Total	**4.0000e-005**	**5.0000e-005**	**4.7000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0738**	**0.0738**	**0.0000**	**0.0000**	**0.0739**

3.7 Architectural Coating - 2016

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	1.0983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4700e-003	9.4900e-003	7.5400e-003	1.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	1.0213	1.0213	1.2000e-004	0.0000	1.0238
Total	**1.0997**	**9.4900e-003**	**7.5400e-003**	**1.0000e-005**		**7.9000e-004**	**7.9000e-004**		**7.9000e-004**	**7.9000e-004**	**0.0000**	**1.0213**	**1.0213**	**1.2000e-004**	**0.0000**	**1.0238**

3.7 Architectural Coating - 2016

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	1.7000e-004	1.7000e-003	0.0000	3.2000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2849	0.2849	1.0000e-005	0.0000	0.2852
Total	**1.4000e-004**	**1.7000e-004**	**1.7000e-003**	**0.0000**	**3.2000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2849**	**0.2849**	**1.0000e-005**	**0.0000**	**0.2852**

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	1.0983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4700e-003	9.4900e-003	7.5400e-003	1.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	1.0213	1.0213	1.2000e-004	0.0000	1.0238
Total	**1.0997**	**9.4900e-003**	**7.5400e-003**	**1.0000e-005**		**7.9000e-004**	**7.9000e-004**		**7.9000e-004**	**7.9000e-004**	**0.0000**	**1.0213**	**1.0213**	**1.2000e-004**	**0.0000**	**1.0238**

3.7 Architectural Coating - 2016

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	1.7000e-004	1.7000e-003	0.0000	3.2000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2849	0.2849	1.0000e-005	0.0000	0.2852
Total	**1.4000e-004**	**1.7000e-004**	**1.7000e-003**	**0.0000**	**3.2000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2849**	**0.2849**	**1.0000e-005**	**0.0000**	**0.2852**

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	0.6413	1.5775	6.3906	0.0148	1.0775	0.0184	1.0959	0.2877	0.0170	0.3046	0.0000	1,134.4580	1,134.4580	0.0456	0.0000	1,135.4159
Unmitigated	0.6413	1.5775	6.3906	0.0148	1.0775	0.0184	1.0959	0.2877	0.0170	0.3046	0.0000	1,134.4580	1,134.4580	0.0456	0.0000	1,135.4159

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
University/College (4Yr)	1,428.00	780.00	0.00	2,857,571	2,857,571
Total	1,428.00	780.00	0.00	2,857,571	2,857,571

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
University/College (4Yr)	9.50	7.30	7.30	6.40	88.60	5.00	91	9	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.474465	0.063133	0.180505	0.158349	0.070139	0.010387	0.013452	0.017129	0.000779	0.000670	0.005599	0.000320	0.005072

4.4 Fleet Mix

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	476.3459	476.3459	0.0219	4.5300e-003	478.2101
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	476.3459	476.3459	0.0219	4.5300e-003	478.2101
NaturalGas Mitigated	0.0101	0.0921	0.0774	5.5000e-004		7.0000e-003	7.0000e-003		7.0000e-003	7.0000e-003	0.0000	100.2713	100.2713	1.9200e-003	1.8400e-003	100.8816
NaturalGas Unmitigated	0.0101	0.0921	0.0774	5.5000e-004		7.0000e-003	7.0000e-003		7.0000e-003	7.0000e-003	0.0000	100.2713	100.2713	1.9200e-003	1.8400e-003	100.8816

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					
University/College (4Yr)	1.87901e+006	0.0101	0.0921	0.0774	5.5000e-004		7.0000e-003	7.0000e-003		7.0000e-003	7.0000e-003	0.0000	100.2713	100.2713	1.9200e-003	1.8400e-003	100.8816
Total		**0.0101**	**0.0921**	**0.0774**	**5.5000e-004**		**7.0000e-003**	**7.0000e-003**		**7.0000e-003**	**7.0000e-003**	**0.0000**	**100.2713**	**100.2713**	**1.9200e-003**	**1.8400e-003**	**100.8816**

5.2 Energy by Land Use - NaturalGas

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					
University/College (4Yr)	1.87901e+006	0.0101	0.0921	0.0774	5.5000e-004		7.0000e-003	7.0000e-003		7.0000e-003	7.0000e-003	0.0000	100.2713	100.2713	1.9200e-003	1.8400e-003	100.8816
Total		**0.0101**	**0.0921**	**0.0774**	**5.5000e-004**		**7.0000e-003**	**7.0000e-003**		**7.0000e-003**	**7.0000e-003**	**0.0000**	**100.2713**	**100.2713**	**1.9200e-003**	**1.8400e-003**	**100.8816**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
University/College (4Yr)	1.66457e+006	476.3459	0.0219	4.5300e-003	478.2101
Total		**476.3459**	**0.0219**	**4.5300e-003**	**478.2101**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
University/College (4Yr)	1.66457e+006	476.3459	0.0219	4.5300e-003	478.2101
Total		**476.3459**	**0.0219**	**4.5300e-003**	**478.2101**

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	0.6005	5.0000e-005	5.6200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0114
Unmitigated	0.6005	5.0000e-005	5.6200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0114

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	0.1373					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4627					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4000e-004	5.0000e-005	5.6200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0114
Total	**0.6005**	**5.0000e-005**	**5.6200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0107**	**0.0107**	**3.0000e-005**	**0.0000**	**0.0114**

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	0.1373					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4627					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.4000e-004	5.0000e-005	5.6200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0114
Total	**0.6005**	**5.0000e-005**	**5.6200e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0107**	**0.0107**	**3.0000e-005**	**0.0000**	**0.0114**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.5828	0.0424	1.0900e-003	12.8113
Unmitigated	11.5828	0.0424	1.0900e-003	12.8120

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
University/College (4Yr)	1.28466 / 2.00934	11.5828	0.0424	1.0900e-003	12.8120
Total		**11.5828**	**0.0424**	**1.0900e-003**	**12.8120**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
University/College (4Yr)	1.28466 / 2.00934	11.5828	0.0424	1.0900e-003	12.8113
Total		**11.5828**	**0.0424**	**1.0900e-003**	**12.8113**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.2275	1.3136	0.0000	49.8133
Unmitigated	22.2275	1.3136	0.0000	49.8133

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
University/College (4Yr)	109.5	22.2275	1.3136	0.0000	49.8133
Total		**22.2275**	**1.3136**	**0.0000**	**49.8133**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
University/College (4Yr)	109.5	22.2275	1.3136	0.0000	49.8133
Total		**22.2275**	**1.3136**	**0.0000**	**49.8133**

9.0 Operational Offroad

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

10.0 Vegetation

APPENDIX B

NOISE MEASUREMENT RESULTS

Measurement Location 1

LAeq	LAE	LAmax	LAmin	LA10	LA33	LA50	LA90	LA95
42.7	45.7	43.4	42.7	43.3	43.1	43	42.8	42.8

Lppeak	Over	Under	Pause
78.8	-		

Measurement Location 2

LAeq	LAE	LAmax	LAmin	LA10	LA33	LA50	LA90	LA95
45.1	74.7	60.1	41.2	46.9	44.4	43.7	42.3	42

Lppeak	Over	Under	Pause
89.5	-		