

# **Appendix A**

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**El Dorado County Air Quality Management  
District Best Management Practices**



EL DORADO COUNTY AIR QUALITY MANAGEMENT DISTRICT

**RULE 223-1 FUGITIVE DUST - CONSTRUCTION, BULK MATERIAL HANDLING, BLASTING, OTHER EARTHMOVING ACTIVITIES AND CARRYOUT AND TRACKOUT PREVENTION**

*(Adopted 7/19/2005, Amended 10/18/2005)*

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### **223-1.1 GENERAL**

- A. **PURPOSE:** The purpose of this rule is to limit fugitive dust emissions from construction, and construction related activities.
- B. **APPLICABILITY:** This rule applies to any construction or construction related activities, including, but not limited to, land clearing, grubbing, scraping, travel on site, and travel on access roads. This rule also applies to all sites that are subject to this rule where carryout or trackout has occurred or may occur on paved public roads or the paved shoulders of a paved public road. This rule also applies to the construction of new landfill disposal sites or modification to existing landfill disposal sites prior to commencement of landfilling activities.
- C. **DISCOVERY OF NATURALLY OCCURRING ASBESTOS:** If owner/operator discovers any naturally occurring asbestos, serpentine, or ultramafic rock after the project has commenced, then:
  - 1. If naturally-occurring asbestos, serpentine, or ultramafic rock is discovered by the owner/operator, a Professional Geologist, or the Air Pollution Control Officer in the area to be disturbed after the start of any construction or construction related activity, the owner/operator must report the discovery to the EDCAQMD no later than the next business day; and
  - 2. The project must comply with applicable provisions of Rule 223-2 and the State of California Asbestos Airborne Toxic Control Measure (ATCM) for Construction, Grading, Quarrying, and Surface Mining Operations (CCR Title 17, Section 93105).

### **223-1.2 EXEMPTIONS**

- A. **GENERAL:** Exemptions as defined in EDCAQMD Rule 223.2.A through F shall apply to this rule.
- B. **BULK MATERIAL HANDLING:** Activities listed in Rule 223-1.2.B are exempt from Rule 223-1.
  - 1. Any outdoor storage, handling or transport of bulk materials which would be damaged by wetting with water or by the application of chemical/organic dust suppressants, provided owners/operators demonstrate to the satisfaction of the Air Pollution Control Officer that none of the control measures specified in Table 2 of this Rule can be implemented.
  - 2. Transport of a bulk material in an outdoor area for a distance of twelve feet or less with the use of chute or conveyor device.
  - 3. Outdoor storage of any bulk material at a single site where no material is actively being added or removed at the end of the workday or overnight and where the total material stored is less than 100 cubic yards.

### **223-1.3 DEFINITIONS**

The definitions of terms in EDCAQMD Rule 223 (General Requirements) shall apply to this rule.

#### **223-1.4 GENERAL REQUIREMENTS**

- A. Visible emissions shall not exceed the shade designated as No. 0 on the Ringelmann Chart, or 0% opacity as determined in accordance with US EPA Method 9, at 50 feet from the point-of-origin and at the property line. Visible emissions shall not exceed the shade designated as No. 1 on the Ringelmann Chart, or 20% opacity as determined in accordance with US EPA Method 9 at the point-of-origin. Applicable Best Management Practices included in Table 1 through 4 of this Rule or similar effective measures shall be utilized to comply with fugitive dust standards of this rule from each fugitive dust source type within the active operation.
- B. Vehicle Speed Limitations and Posting of Speed Limit Signs
  - 1. An owner/operator shall limit the speed of vehicles traveling within construction sites if necessary to prevent visible dust emissions in excess of the standards in Section 223-1.4 A.
- C. When sustained wind speeds result in visible dust emissions in excess of the standards in Section 223-1.4 A, despite the application of dust mitigation measures, grading and earthmoving operations except water trucks shall be suspended.

#### **223-1.5 ADMINISTRATIVE REQUIREMENTS**

##### **A. Fugitive Dust Control Plan**

- 1. An owner/operator shall submit a Fugitive Dust Control Plan to the Air Pollution Control Officer prior to the start of any construction activity for which a grading permit was issued by El Dorado County or an incorporated city within El Dorado County. An updated Fugitive Dust Control Plan must be submitted if the project is significantly modified, a new grading permit is issued, the owner/operator changes, or at the request of the Air Pollution Control Officer.

Construction activities shall not commence until the Air Pollution Control Officer has approved or conditionally approved the Fugitive Dust Control Plan. An owner/operator shall provide written notification to the Air Pollution Control Officer at least 10 days prior to the initial commencement of earthmoving activities via fax or mail. The requirement to submit a Fugitive Dust Control Plan shall apply to all such activities conducted for residential and non-residential (e.g., commercial, industrial, or institutional) purposes or conducted by any governmental entity.

- 2. An owner/operator may submit one Fugitive Dust Plan covering multiple construction stages within same project, provided the plan includes description of activities and control measures for all stages of the project. The Fugitive Dust Control Plan shall specify the expected start and final completion date of each project.
- 3. The Fugitive Dust Control Plan shall describe all fugitive dust control measures to be implemented before, during and after any dust generating activity.
- 4. A Fugitive Dust Control Plan shall contain all the information described in Section 223-1.5.B. The Air Pollution Control Officer shall approve, disapprove or conditionally approve the Fugitive Dust Control Plan within 30 days of plan submittal.
- 5. An owner/operator shall retain a copy of an approved Fugitive Dust Control Plan at the project site. The approved Fugitive Dust Control Plan shall remain valid until the termination of all dust

generating activities. Failure to comply with the provisions of an approved Fugitive Dust Control Plan is deemed to be a violation of this rule. Regardless of whether an approved Fugitive Dust Control Plan is in place or not, or even when the owner/operator responsible for the plan is complying with an approved Fugitive Dust Control Plan, the owner/operator shall comply with all requirements of Rules 223 and 223-1 at all times.

B. A Fugitive Dust Control Plan shall contain all of the following information:

1. Name(s), address(es), and phone number(s) of person(s) and owner(s)/operator(s) responsible for the preparation, submittal, and implementation of the Fugitive Dust Control Plan and responsible for the dust generating operation and the application of dust control measures.
2. A plot plan which shows the type and location of each project.
3. The total area of land surface to be disturbed, and total area in acres of the entire project site.:
4. The expected start and completion dates of dust generating and soil disturbance activities to be performed on the site.
5. The actual and potential sources of fugitive dust emissions on the site and the location of bulk material handling and storage areas, paved and unpaved roads; entrances and exits where carryout/trackout may occur; and traffic areas.
6. Best Management Practice (Rule 223-1, Table 1 through 4) or other effective measures for:
  - a. Construction
  - b. Bulk Material Handling
  - c. Carryout and Trackout Management
  - d. Blasting Activities
7. Large Operations must include Dust Control Measures (Rule 223-1, Table 5 and 6).
8. If chemical dust suppressants are to be applied, the following information must be included: product specifications; manufacturer's usage instructions (method, frequency, and intensity of application); type, number, and capacity of application equipment; and information on environmental impacts and approvals or certifications related to appropriate and safe use for ground application.
9. Specific surface treatment(s) and/or control measures utilized to control material carryout, trackout, and sedimentation where unpaved and/or access points join paved roads.

#### **223-1.6 REQUIREMENTS FOR TRACKOUT MANAGEMENT**

- A. An owner/operator shall prevent or cleanup carryout and trackout as specified in Section 223-1.6.A. The use of blower devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner/operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

1. Owners/operators shall prevent carryout and trackout, or immediately remove carryout and trackout when it extends 50 feet or more from the nearest unpaved surface exit point of a site and at the minimum remove all other visible carryout and trackout at the end of each workday.
  2. Cleanup of carryout and trackout shall be accomplished by:
    - a. Manually sweeping and picking-up; or
    - b. Operating a rotary brush or broom accompanied or preceded by sufficient wetting; or
    - c. Operating a PM10-efficient street sweeper.
    - d. Flushing with water, if curbs or gutters are not present, and where the use of water will not result in a source of trackout material or result in adverse impacts on storm water drainage systems or violate any National Pollutant Discharge Elimination System permit program.
- B. An owner/operator of any site with 150 or more vehicle trips per day, or 20 or more vehicle trips per day by vehicles with three or more axles shall in addition to the requirements in Section 223-1.6.A, take the following preventative actions for carryout and trackout:
1. Installing and maintaining a trackout control device (grizzlies, gravel pads or paved surfaces) designed and maintained to control trackout at all access points to paved public roads; or
  2. Utilizing a carryout and trackout prevention procedure which has been demonstrated to the satisfaction of the Air Pollution Control Officer as achieving an equivalent or greater level of control.
- C. Control for disturbed surface area and storage piles shall comply with all applicable requirements of this Rule.

#### **223-1.7. ADDITIONAL REQUIREMENTS FOR LARGE OPERATIONS**

- A. Any person who conducts or authorizes the conducting of a large operation subject to this Rule shall implement the applicable actions specified in Table 5 of this Rule at all times and shall implement the applicable actions specified in Table 6 of this Rule when the applicable performance standards can not be met through use of Table 5 actions; and shall:
1. Submit a Large Operation Notification to the Air Pollution Control Officer within 7 days of qualifying as a large operation;
  2. Maintain daily records to document the specific dust control actions taken, retain such records for a period of not less than two years; and make such records available to the Air Pollution Control Officer upon request;
  3. Identify a dust control supervisor that:
    - a. is employed by or contracted with the property owner or developer;
    - b. is on the site or available on-site within 30 minutes during working hours;
    - c. has the authority to expeditiously employ sufficient dust mitigation measures to ensure compliance with all Rule requirements;

#### **223-1.8 AIR MONITORING**

Ambient air monitoring shall be conducted at the request of the Air Pollution Control Officer.

## **223-1.9 RECORDKEEPING**

### **A. Recordkeeping**

1. A person or owner/operator shall maintain records and any other supporting documents to demonstrate compliance with the requirements of EDCAQMD Rules 223-1 only for those days that a control measure was implemented.
2. Such records shall include the type of control measure(s) used, the location and extent of coverage, and the date, amount, and frequency of application of dust suppressant, manufacturer's dust suppressant product information sheet that identifies the name of the dust suppressant and application instructions.
3. Except where noted otherwise in this rule, records shall be retained for two years following project completion that results in the termination of all dust generating activities. Records shall be made available to the Air Pollution Control Officer upon request.

## **223-1.10 TEST METHODS**

### **A. Surface Crusting: "Measurement of the stability of surface crusting on horizontal surfaces" shall be as follows:**

1. Where a visible crust exists, drop a steel ball with a diameter of 15.9 millimeters (0.625 inches) and a mass ranging from 16 to 17 grams from a distance of 30 centimeters (one foot) directly above at a 90 degree angle (perpendicular) to the ground surface. If blowsand (thin deposits of loose grains covering less than 50 percent of the surface that have not originated from the surface being tested) is present, clear the blowsand from the surfaces to be tested before dropping the steel ball.
2. A sufficient crust is determined to exist if, when the ball is dropped according to Section 223-1.10.A.1, the ball does not sink into the surface so that it is partially or fully surrounded by loose grains and, upon removing the ball, the surface on which it was dropped has not been pulverized so that loose grains are visible.
3. Drop the ball three times each in three representative test areas within a survey area measuring 1 foot by 1 foot that represents a random portion of the surface being evaluated. The test area shall be deemed to have passed if at least two of the three times the ball was dropped, the results met the criteria in Section 223-1.10.A.1. If all three test areas pass, the area shall be deemed to be "sufficiently crusted".

B. Adequately Wetted: Field determination of “adequately wetted” shall be as follows:

1. If the district-approved asbestos dust mitigation plan has specified a percent moisture content for specific materials the determination shall be as specified in the district-approved asbestos dust mitigation plan; or
2. If no moisture threshold is specified in a district-approved asbestos dust mitigation plan, a sample of at least one (1) quart in volume shall be taken from the top three (3) inches of a road, or bare area or from the surface of a stockpile. The sample shall be poured out from a height of four (4) feet onto a clean hard surface. The material shall be considered to be adequately wetted if there is no observable dust emitted when the material is dropped.

**RULE 223-1 TABLE 1**  
**BEST MANAGEMENT PRACTICE**  
**(Construction and Other Earthmoving Activities)**

Source Category	Control Measure	Guidance
Backfilling	A1 Stabilize backfill material when not actively handling; <u>and</u> A2 Stabilize backfill material during handling; <u>and</u> A3 Stabilize soil at completion of activity.	<input type="checkbox"/> Mix backfill soil with water prior to moving <input type="checkbox"/> Dedicate water truck or high capacity hose to backfilling equipment. <input type="checkbox"/> Empty loader bucket slowly so that no dust plumes are generated. <input type="checkbox"/> Minimize drop height from loader bucket.
Clearing and grubbing	B1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; <u>and</u> B2 Stabilize soil during clearing and grubbing activities; <u>and</u> B3 Stabilize soil immediately after clearing and grubbing activities.	<input type="checkbox"/> Maintain live perennial vegetation where possible. <input type="checkbox"/> Apply water in sufficient quantity to prevent generation of dust plumes.
Clearing forms	C1 Use water spray to clear forms; or C2 Use sweeping and water spray to clear forms; <u>or</u> C3 Use vacuum system to clear forms.	<input type="checkbox"/> Use of high pressure air to clear forms may cause exceedance of Rule requirements.
Crushing	D1 Stabilize surface soils prior to operation of support equipment; <u>and</u> D2 Stabilize material after crushing.	<input type="checkbox"/> Follow permit conditions for crushing equipment. <input type="checkbox"/> Pre-water material prior to loading into crusher. <input type="checkbox"/> Monitor crusher emissions opacity. <input type="checkbox"/> Apply water to crushed material to prevent dust plumes.
Cut and fill	E1 Pre-water soils prior to cut and fill activities; <u>and</u> E2 Stabilize soil during and after cut and fill activities	<input type="checkbox"/> For large sites, pre-water with sprinklers or water trucks and allow time for penetration. <input type="checkbox"/> Use water as necessary to keep dust down.
Demolition – mechanical/manual	F1 Stabilize wind erodible surfaces to reduce dust; <u>and</u> F2 Stabilize surface soil where support equipment and vehicles will operate; <u>and</u> F3 Stabilize loose soil and demolition debris.	<input type="checkbox"/> Apply water in sufficient quantities to prevent the generation of visible dust plumes.

**RULE 223-1 TABLE 1**  
**BEST MANAGEMENT PRACTICE**  
**(Construction and Other Earthmoving Activities)**

Source Category	Control Measure	Guidance
Disturbed soil	G1 Stabilize disturbed soil throughout the construction site; <u>and</u> G2 Stabilize disturbed soil between structures	<input type="checkbox"/> Limit vehicular traffic and disturbances on soils where possible. <input type="checkbox"/> If interior block walls are planned, install as early as possible. <input type="checkbox"/> Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes.
Earth-moving activities	H1 Pre-apply water; <u>and</u> H2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 50 feet or beyond property line in any direction; <u>and</u> H3 Stabilize soils once earth-moving activities are complete.	<input type="checkbox"/> Grade each project phase separately, timed to coincide with construction phase. <input type="checkbox"/> Upwind fencing can prevent material movement on site. <input type="checkbox"/> Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes.
Importing/exporting of bulk materials	I1 Stabilize or adequately wet material while loading to reduce fugitive dust emissions; <u>and</u> I2 Maintain at least six inches of freeboard on haul vehicles traveling offsite; <u>and</u> I3 Stabilize or adequately wet material while transporting to reduce fugitive dust emissions; <u>and</u> I4 Stabilize material while unloading to reduce fugitive dust emissions.	<input type="checkbox"/> Use tarps or other suitable enclosures on haul trucks. <input type="checkbox"/> Comply with track-out prevention/mitigation requirements. <input type="checkbox"/> Provide water while loading and unloading to reduce visible dust plumes.
Landscaping	J1 Stabilize soils, materials and slopes.	<input type="checkbox"/> Apply water to materials to stabilize. <input type="checkbox"/> Maintain materials in a crusted condition. <input type="checkbox"/> Maintain effective cover over materials <input type="checkbox"/> Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes <input type="checkbox"/> Hydroseed prior to rainy season.
Road shoulder maintenance	K1 Apply water to unpaved shoulders prior to clearing; <u>and</u> K2 Apply chemical dust suppressants and/or other appropriate material in accordance with DOT specifications to maintain a stabilized surface after completing road shoulder maintenance.	<input type="checkbox"/> Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs. <input type="checkbox"/> Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs.

**RULE 223-1 TABLE 1**  
**BEST MANAGEMENT PRACTICE**  
**(Construction and Other Earthmoving Activities)**

Source Category	Control Measure	Guidance
Screening	L1 Pre-water material prior to screening; <u>and</u> L2 Limit fugitive dust emissions to opacity and plume length standards; <u>and</u> L3 Stabilize material immediately after screening.	<input type="checkbox"/> Dedicate water truck or high capacity hose to screening operation. <input type="checkbox"/> Drop material through the screen slowly and minimize drop height. <input type="checkbox"/> Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point.
Staging areas	M1 Stabilize staging areas during use; <u>and</u> M2 Stabilize staging area soils at project completion.	<input type="checkbox"/> Limit size of staging area. <input type="checkbox"/> Limit vehicle speeds to prevent visible dust in excess of standards per 223-1.4.A. <input type="checkbox"/> Limit number and size of staging area entrances/exits.
Stockpiles/Bulk Material Handling	N1 Stabilize stockpiled materials. N2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	<input type="checkbox"/> Add or remove material from the downwind portion of the storage pile. <input type="checkbox"/> Maintain storage piles to avoid slides.
Traffic areas for construction activities	O1 Stabilize or maintain adequate moisture on all off-road traffic and parking areas; <u>and</u> O2 Stabilize or maintain adequate moisture on all haul routes; <u>and</u> O3 Direct construction traffic over established haul routes.	<input type="checkbox"/> Apply gravel/paving to all haul routes as soon as possible to all future roadway areas. <input type="checkbox"/> Barriers can be used to ensure vehicles are only used on established parking areas/haul routes.
Trenching	P1 Stabilize surface soils where trencher or excavator and support equipment will operate; <u>and</u> P2 Stabilize soils at the completion of trenching activities.	<input type="checkbox"/> Pre-watering of soils prior to trenching is an effective preventive measure. <input type="checkbox"/> Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment.
Truck loading	Q1 Pre-water material prior to loading; <u>or</u> Q2 Apply water as loader bucket is being emptied; <u>and</u> Q2 Freeboard must be 6 inches or greater (VCS 23114)	<input type="checkbox"/> Empty loader bucket such that no visible dust plumes are created. <input type="checkbox"/> Ensure that the loader bucket is close to the truck to minimize drop height while loading.

**RULE 223-1 TABLE 1**  
**BEST MANAGEMENT PRACTICE**  
**(Construction and Other Earthmoving Activities)**

Source Category	Control Measure	Guidance
Turf Overseeding	R1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; <u>and</u> R2 Cover haul vehicles prior to exiting the site.	<input type="checkbox"/> Haul waste material immediately off-site.
Unpaved roads/parking lots	S1 Stabilize soils to meet the applicable performance standards(Surface crusting); <u>and</u> S2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	<input type="checkbox"/> Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements.
Vacant land	T1 In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access.	<input type="checkbox"/> Installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures to prevent access to motor or off-road vehicles.

**RULE 223-1 TABLE 2  
BEST MANAGEMENT PRACTICE  
(Bulk Material Handling)**

Source Category	Control Actions
Handling Of Bulk Materials	A1 When handling bulk materials, apply water or chemical/organic stabilizers/suppressants;
Storage of Bulk Materials	B1 When storing bulk materials, comply with the conditions for a stabilized surface; <u>or</u> B2 Cover bulk materials stored outdoors with tarps, plastic or other suitable material and anchor in such a manner that prevents the cover from being removed by wind action; <u>or</u> B3 Construct and maintain wind barriers with less than 50% porosity. If utilizing fences or wind barriers, apply water or chemical/organic stabilizers/suppressants; <u>or</u> B4 Utilize a 3-sided structure with a height at least equal to the height of the storage pile and with less than 50% porosity.
On-Site Transporting of Bulk Materials	C1 Limit vehicular speed while traveling on the work site; <u>or</u> C2 Load all haul trucks such that the freeboard is not less than six (6) inches when material is transported across any paved public access road; <u>or</u> C3 Apply water to the top of the load; <u>or</u> C4 Cover haul trucks with a tarp or other suitable cover.
Off-Site Transporting of Bulk Materials	D1 Clean the interior of the cargo compartment or cover the cargo compartment before the empty truck leaves the site; <u>and</u> D2 Prevent spillage or loss of bulk material from holes or other openings in the cargo compartment's floor, sides and/or tailgate; <u>and</u> D3 Load all haul trucks such that the freeboard is not less than six (6) inches when material is transported on any paved road, and apply water to the top of the load; or cover haul trucks with a tarp or other suitable cover.
Outdoor Transport Of Bulk Materials With A Chute Or Conveyor:	E1 Fully enclose the chute or conveyor; <u>or</u> E2 Operate water spray equipment; <u>or</u> E3 Wash separated or screened materials to remove conveyed materials having an aerodynamic diameter of 10 microns or less.

**RULE 223-1 TABLE 3  
BEST MANAGEMENT PRACTICE  
(Removal and Prevention of Trackout)**

Source Category	Control Actions
Removal of Trackout Material	<p>A1 Manually sweeping and picking-up; <u>or</u>  A2 Operating a rotary brush or broom accompanied or preceded by sufficient wetting; <u>or</u>  A3 Operating a PM10-efficient street sweeper; <u>or</u>  A4 Flushing with water, where the use of water will not result in adverse impacts on storm water drainage systems or violate any National Pollutant Discharge Elimination System permit program; <u>and</u>  A5 <u>The use of blower devices, or dry rotary brushes or dry brooms is expressly prohibited.</u></p>
Frequency of Trackout Material Removal	<p>B1 At the minimum trackout must be removed at the end of the day; <u>and</u>  B2 Trackout must be immediately removed when it extends 50 feet or more from the nearest unpaved surface exit point of a site; <u>and</u>  B3 On interior paved roads trackout must be removed at least once per workday.</p>
Trackout Prevention for Large Operations or Sites with more than 150 vehicle trips/day.	<p>C1 Installation of grizzlies, or similar devices designed to remove dirt/mud from tires; <u>or</u>  C2 Installation of gravel pads; <u>or</u>  C3 Paving of interior roads.</p>

**RULE 223-1 TABLE 4  
BEST MANAGEMENT PRACTICE  
(Blasting Activities)**

<b>Source Category</b>	<b>Control Measure</b>	<b>Guidance</b>
Site Preparation (drilling, setting charges, burial of charges)	A1 Reduce dust from drilling operation A2 Pre-wet blast area A3 Cover charges to minimize dust	<input type="checkbox"/> Control rate of drilling <input type="checkbox"/> Apply water fog <input type="checkbox"/> Place blast mats over charges <input type="checkbox"/> Place soil mounds over charges <input type="checkbox"/> Wet entire area prior to blasting
Blasting activities	B1 Dust cannot exceed 50 ft or cross the project property line	<input type="checkbox"/> Conduct blasting on calm days <input type="checkbox"/> Consider wind direction with respect to your property line, nearby residences and other receptors.
Post-Blasting Activities	C1 Follow Best Management Practice for all construction activities (Rule 223-1, Table 1)	

**RULE 223-1 TABLE 5  
DUST CONTROL MEASURES FOR LARGE OPERATIONS**

Source Category	Control Actions
Earth-moving (except construction cutting and filling areas, and mining operations)	<p>A1 Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Air Pollution Control Officer. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; <u>or</u></p> <p>A2 For any earth-moving which is more than 50 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 50 feet in length in any direction. Visible emissions must not extend beyond property boundary.</p>
Earth-moving: Construction fill areas:	<p>B1 Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the Air Pollution Control Officer. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the Air Pollution Control Officer complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four hour period of active operations; <u>or</u></p> <p>B2 For any earth-moving which is more than 50 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 50 feet in length in any direction. Visible emissions must not extend beyond property boundary.</p>
Earth-moving: Construction cut areas	<p>C1 Conduct watering as necessary to prevent any visible emissions from extending beyond property boundary.</p>
Disturbed surface areas: (except completed grading areas)	<p>D1 Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.</p>
Disturbed surface areas: Completed grading areas	<p>E1 Apply chemical stabilizers within five working days of grading completion; <u>or</u></p> <p>E2 Take actions F1 or F3 specified for inactive disturbed surface areas.</p>

**RULE 223-1 TABLE 5  
DUST CONTROL MEASURES FOR LARGE OPERATIONS**

Source Category	Control Actions
Inactive disturbed surface areas	<p>F1 Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; <u>or</u></p> <p>F2 Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; <u>or</u></p> <p>F3 Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; <u>or</u></p> <p>F4 Utilize any combination of control actions F1, F2 and F3 such that, in total, these actions apply to all inactive disturbed surface areas.</p> <p>F5 Establishment and maintenance of surface crusting sufficient to satisfy the test in Section 223-1.10</p> <p>F6 Approved mixture of tackifier and fiber mulch, applied per manufacturer's recommendation.</p>
Unpaved Roads	<p>G1 Water all roads used for any vehicular traffic at least once per every two hours of active operations or as often as necessary; <u>or</u></p> <p>G2 Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface; <u>and</u></p> <p>G3 Restrict vehicle speeds where necessary ;</p>
Open storage piles	<p>H1 Apply chemical stabilizers; <u>or</u></p> <p>H2 Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; <u>or</u></p> <p>H3 Install temporary coverings; <u>or</u></p> <p>H4 Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile. This option may only be used at aggregate-related plants or at cement manufacturing facilities.</p>
All Categories	<p>I1 Any other control measures approved by the Air Pollution Control Officer as equivalent to the methods specified in Table 5 may be used.</p>

**RULE 223-1 TABLE 6**  
**CONTINGENCY DUST CONTROL MEASURES FOR LARGE OPERATIONS**

Source Category	Control Actions
Earth-moving	A1 Cease all active operations except for dust mitigation activities; <u>or</u> A2 Apply water to soil not more than 15 minutes prior to moving such soil; <u>and</u> A3 Apply water during soil moving or disturbance operations.
Disturbed surface areas	B1 On the last day of active operations prior to a weekend, holiday or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; <u>or</u> B2 Apply chemical stabilizers prior to wind event; <u>or</u> B3 Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; <u>or</u> B4 Take the actions specified in Table 5, control action F3; <u>or</u> B5 Utilize any combination of control actions B1, B2 and B3B such that, in total, these actions apply to all disturbed surface areas.
Unpaved roads	C1 Apply chemical stabilizers prior to wind event; <u>or</u> C2 Apply water twice per hour during active operation; <u>or</u> C3 Stop all vehicular traffic, except for dust mitigation equipment.
Open storage piles	D1 Apply water twice per hour; <u>or</u> D2 Install temporary coverings.
Bulk Material Transport	E1 Cover all haul vehicles; <u>or</u> E2 Freeboard must be 6 inches or greater (VCS 23114)
All Categories	F1 Any other control measures approved by the Air Pollution Control Officer as equivalent to the methods specified in Table 6 may be used.

# **Appendix B**

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**Construction-Related Emissions of  
Criteria Air Pollutants and Ozone  
Precursors and GHG Emissions**



TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Annual

**TKPOA Corporation Yard - New Building**  
El Dorado-Lake Tahoe County, Annual

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	4.80	1000sqft	0.11	4,800.00	0
Other Non-Asphalt Surfaces	8.10	1000sqft	0.19	8,100.00	0
Parking Lot	5.00	1000sqft	0.11	5,000.00	0

**1.2 Other Project Characteristics**

Urbanization Rural Wind Speed (m/s) 2.7 Precipitation Freq (Days) 70  
 Climate Zone 14 Operational Year 2021

Utility Company User Defined

CO2 Intensity (lb/MW/hr) 393.26 CH4 Intensity (lb/MW/hr) 0 N2O Intensity (lb/MW/hr) 0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from CARB (99,467 MTCO2e) and total Utility Consumption from CEC (558 GWh) for Liberty Utility in 2016.

Land Use -

Construction Phase - CalEEMod has assumed a conservatively shorter construction schedule than the 3-year schedule planned for the project.

Grading - Max area disturbed is 1.02 acres.

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Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	0.00	1.02
tblGrading	AcresOfGrading	0.50	1.02
tblProjectCharacteristics	CO2IntensityFactor	0	393.26
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

**2.0 Emissions Summary**



TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2019	7-31-2019	0.3690	0.3690
2	8-1-2019	9-30-2019	0.2560	0.2560
		Highest	0.3690	0.3690

**2.2 Overall Operational**

**Unmitigated Operational**

Category	tons/yr										MT/yr						
	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	
Area	0.0256	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	3.4000e-004
Energy	5.1000e-004	4.6000e-003	3.8600e-003	3.0000e-005	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	0.0000	14.7871	14.7871	1.0000e-004	9.0000e-005	14.8168	
Mobile	9.8800e-003	0.0392	0.1294	3.8000e-004	0.0329	3.9000e-004	0.0333	8.8200e-003	3.6000e-004	9.1800e-003	0.0000	34.2201	34.2201	1.1400e-003	0.0000	34.2487	
Waste						0.0000	0.0000	0.0000	0.0000	0.0000	1.2078	0.0000	1.2078	0.0714	0.0000	2.9923	
Water						0.0000	0.0000	0.0000	0.0000	0.0000	0.3522	1.0714	1.4235	0.0362	8.5000e-004	2.5823	
<b>Total</b>	<b>0.0360</b>	<b>0.0438</b>	<b>0.1335</b>	<b>4.1000e-004</b>	<b>0.0329</b>	<b>7.4000e-004</b>	<b>0.0336</b>	<b>8.8200e-003</b>	<b>7.1000e-004</b>	<b>9.5300e-003</b>	<b>1.5600</b>	<b>50.0789</b>	<b>51.6388</b>	<b>0.1088</b>	<b>9.4000e-004</b>	<b>54.6404</b>	

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**2.2 Overall Operational**

Mitigated Operational

Category	tons/yr										MT/yr						
	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	
Area	0.0256	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	3.4000e-004
Energy	5.1000e-004	4.6000e-003	3.8600e-003	3.0000e-005	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	0.0000	14.7871	14.7871	1.0000e-004	9.0000e-005	0.0000	14.8168
Mobile	9.8800e-003	0.0392	0.1294	3.8000e-004	0.0329	3.9000e-004	0.0333	8.8200e-003	3.6000e-004	9.1800e-003	0.0000	34.2201	34.2201	1.1400e-003	0.0000	0.0000	34.2487
Waste						0.0000	0.0000	0.0000	0.0000	0.0000	1.2078	0.0000	1.2078	0.0714	0.0000	0.0000	2.9923
Water						0.0000	0.0000	0.0000	0.0000	0.0000	0.3522	1.0714	1.4235	0.0362	8.5000e-004	0.0000	2.5823
<b>Total</b>	<b>0.0360</b>	<b>0.0438</b>	<b>0.1335</b>	<b>4.1000e-004</b>	<b>0.0329</b>	<b>7.4000e-004</b>	<b>0.0336</b>	<b>8.8200e-003</b>	<b>7.1000e-004</b>	<b>9.5300e-003</b>	<b>1.5600</b>	<b>50.0789</b>	<b>51.6388</b>	<b>0.1088</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>54.6404</b>

Percent Reduction	tons/yr										MT/yr					
	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
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	0.00

**3.0 Construction Detail**

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2019	5/1/2019	5	1	
2	Grading	Grading	5/2/2019	5/3/2019	5	2	
3	Building Construction	Building Construction	5/4/2019	9/20/2019	5	100	
4	Paving	Paving	9/21/2019	9/27/2019	5	5	
5	Architectural Coating	Architectural Coating	9/28/2019	10/4/2019	5	5	

**Acres of Grading (Site Preparation Phase): 1.02**

**Acres of Grading (Grading Phase): 1.02**

**Acres of Paving: 0.3**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,200; Non-Residential Outdoor: 2,400; Striped Parking Area: 786 (Architectural Coating – sqft)**

**OffRoad Equipment**

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	3.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 2019**  
**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr					
	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
Fugitive Dust					5.4000e-004	0.0000	5.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000	1.8000e-004	1.8000e-004	1.8000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
<b>Total</b>	<b>3.6000e-004</b>	<b>4.4600e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>5.4000e-004</b>	<b>1.8000e-004</b>	<b>7.2000e-004</b>	<b>6.0000e-005</b>	<b>1.7000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.4378</b>	<b>0.4378</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4413</b>

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	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
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	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0280	0.0280	0.0000	0.0000	0.0280
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0280</b>	<b>0.0280</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0280</b>

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**3.2 Site Preparation - 2019**

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	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
Fugitive Dust					5.4000e-004	0.0000	5.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000	1.8000e-004	1.8000e-004	1.8000e-004	1.7000e-004	1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
<b>Total</b>	<b>3.6000e-004</b>	<b>4.4600e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>5.4000e-004</b>	<b>1.8000e-004</b>	<b>7.2000e-004</b>	<b>6.0000e-005</b>	<b>1.7000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.4378</b>	<b>0.4378</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4413</b>

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	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
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	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0280	0.0280	0.0000	0.0000	0.0280
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0280</b>	<b>0.0280</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0280</b>

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**3.3 Grading - 2019**

**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr					
	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
Fugitive Dust					1.2900e-003	0.0000	1.2900e-003	4.7000e-004	0.0000	4.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.1000e-004	5.1000e-004	5.1000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570
<b>Total</b>	<b>9.5000e-004</b>	<b>8.6000e-003</b>	<b>7.6900e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>5.4000e-004</b>	<b>1.8300e-003</b>	<b>4.7000e-004</b>	<b>5.1000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.0520</b>	<b>1.0520</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.0570</b>

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	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
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	8.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1120	0.1120	0.0000	0.0000	0.1121
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1120</b>	<b>0.1120</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1121</b>

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**3.3 Grading - 2019**

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	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
Fugitive Dust					1.2900e-003	0.0000	1.2900e-003	4.7000e-004	0.0000	4.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005	5.4000e-004	5.4000e-004	5.4000e-004	5.1000e-004	5.1000e-004	5.1000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570
<b>Total</b>	<b>9.5000e-004</b>	<b>8.6000e-003</b>	<b>7.6900e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>5.4000e-004</b>	<b>1.8300e-003</b>	<b>4.7000e-004</b>	<b>5.1000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.0520</b>	<b>1.0520</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.0570</b>

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	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
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	8.0000e-005	5.0000e-005	5.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1120	0.1120	0.0000	0.0000	0.1121
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1120</b>	<b>0.1120</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1121</b>

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**3.4 Building Construction - 2019**  
Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	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
Off-Road	0.0479	0.4910	0.3772	5.7000e-004		0.0303	0.0303		0.0279	0.0279	0.0000	51.1502	51.1502	0.0162	0.0000	51.5548
<b>Total</b>	<b>0.0479</b>	<b>0.4910</b>	<b>0.3772</b>	<b>5.7000e-004</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0279</b>	<b>0.0279</b>	<b>0.0000</b>	<b>51.1502</b>	<b>51.1502</b>	<b>0.0162</b>	<b>0.0000</b>	<b>51.5548</b>

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	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
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	7.7000e-004	0.0199	6.9700e-003	4.0000e-005	8.8000e-004	1.6000e-004	1.0400e-003	2.5000e-004	1.5000e-004	4.1000e-004	0.0000	3.5198	3.5198	9.0000e-005	0.0000	3.5220
Worker	3.0200e-003	2.0500e-003	0.0212	5.0000e-005	4.9000e-003	4.0000e-005	4.9300e-003	1.3000e-003	4.0000e-005	1.3400e-003	0.0000	4.4793	4.4793	1.5000e-004	0.0000	4.4831
<b>Total</b>	<b>3.7900e-003</b>	<b>0.0220</b>	<b>0.0282</b>	<b>9.0000e-005</b>	<b>5.7800e-003</b>	<b>2.0000e-004</b>	<b>5.9700e-003</b>	<b>1.5500e-003</b>	<b>1.9000e-004</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>7.9991</b>	<b>7.9991</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>8.0051</b>

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**3.4 Building Construction - 2019**

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	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
Off-Road	0.0479	0.4910	0.3772	5.7000e-004		0.0303	0.0303		0.0279	0.0279	0.0000	51.1502	51.1502	0.0162	0.0000	51.5548
<b>Total</b>	<b>0.0479</b>	<b>0.4910</b>	<b>0.3772</b>	<b>5.7000e-004</b>		<b>0.0303</b>	<b>0.0303</b>		<b>0.0279</b>	<b>0.0279</b>	<b>0.0000</b>	<b>51.1502</b>	<b>51.1502</b>	<b>0.0162</b>	<b>0.0000</b>	<b>51.5548</b>

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	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
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	7.7000e-004	0.0199	6.9700e-003	4.0000e-005	8.8000e-004	1.6000e-004	1.0400e-003	2.5000e-004	1.5000e-004	4.1000e-004	0.0000	3.5198	3.5198	9.0000e-005	0.0000	3.5220
Worker	3.0200e-003	2.0500e-003	0.0212	5.0000e-005	4.9000e-003	4.0000e-005	4.9300e-003	1.3000e-003	4.0000e-005	1.3400e-003	0.0000	4.4793	4.4793	1.5000e-004	0.0000	4.4831
<b>Total</b>	<b>3.7900e-003</b>	<b>0.0220</b>	<b>0.0282</b>	<b>9.0000e-005</b>	<b>5.7800e-003</b>	<b>2.0000e-004</b>	<b>5.9700e-003</b>	<b>1.5500e-003</b>	<b>1.9000e-004</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>7.9991</b>	<b>7.9991</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>8.0051</b>

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**3.5 Paving - 2019**

**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr					
	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
Off-Road	2.0700e-003	0.0196	0.0179	3.0000e-005	1.1100e-003	1.1100e-003	1.1100e-003	1.0300e-003	1.0300e-003	1.0300e-003	0.0000	2.3931	2.3931	6.8000e-004	0.0000	2.4102
Paving	1.4000e-004				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.2100e-003</b>	<b>0.0196</b>	<b>0.0179</b>	<b>3.0000e-005</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>2.3931</b>	<b>2.3931</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.4102</b>

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	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
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	3.4000e-004	2.3000e-004	2.3800e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5039	0.5039	2.0000e-005	0.0000	0.5044
<b>Total</b>	<b>3.4000e-004</b>	<b>2.3000e-004</b>	<b>2.3800e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.6000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.5039</b>	<b>0.5039</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5044</b>

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**3.5 Paving - 2019**

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	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
Off-Road	2.0700e-003	0.0196	0.0179	3.0000e-005	1.1100e-003	1.1100e-003	1.1100e-003	1.0300e-003	1.0300e-003	1.0300e-003	0.0000	2.3931	2.3931	6.8000e-004	0.0000	2.4102
Paving	1.4000e-004				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.2100e-003</b>	<b>0.0196</b>	<b>0.0179</b>	<b>3.0000e-005</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>2.3931</b>	<b>2.3931</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.4102</b>

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	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
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	3.4000e-004	2.3000e-004	2.3800e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5039	0.5039	2.0000e-005	0.0000	0.5044
<b>Total</b>	<b>3.4000e-004</b>	<b>2.3000e-004</b>	<b>2.3800e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.6000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.5039</b>	<b>0.5039</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5044</b>

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**3.6 Architectural Coating - 2019**  
**Unmitigated Construction On-Site**

Category	tons/yr										MT/yr						
	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	
Archit. Coating	0.0602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	4.5900e-003	4.6000e-003	1.0000e-005	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.0000	0.6397
<b>Total</b>	<b>0.0608</b>	<b>4.5900e-003</b>	<b>4.6000e-003</b>	<b>1.0000e-005</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.6397</b>

**Unmitigated Construction Off-Site**

Category	tons/yr										MT/yr						
	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	
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	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	0.0000
Worker	4.0000e-005	3.0000e-005	2.6000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0560	0.0560	0.0000	0.0000	0.0000	0.0560
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0560</b>	<b>0.0560</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0560</b>

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**3.6 Architectural Coating - 2019**

**Mitigated Construction On-Site**

Category	tons/yr										MT/yr					
	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
Archit. Coating	0.0602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	4.5900e-003	4.6000e-003	1.0000e-005	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6397
<b>Total</b>	<b>0.0608</b>	<b>4.5900e-003</b>	<b>4.6000e-003</b>	<b>1.0000e-005</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6397</b>

**Mitigated Construction Off-Site**

Category	tons/yr										MT/yr					
	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
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	3.0000e-005	2.6000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0560	0.0560	0.0000	0.0000	0.0560
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0560</b>	<b>0.0560</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0560</b>

**4.0 Operational Detail - Mobile**

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4.1 Mitigation Measures Mobile

Category	tons/yr											MT/yr				
	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
Mitigated	9.8800e-003	0.0392	0.1294	3.8000e-004	0.0329	3.9000e-004	0.0333	8.8200e-003	3.6000e-004	9.1800e-003	0.0000	34.2201	34.2201	1.1400e-003	0.0000	34.2487
Unmitigated	9.8800e-003	0.0392	0.1294	3.8000e-004	0.0329	3.9000e-004	0.0333	8.8200e-003	3.6000e-004	9.1800e-003	0.0000	34.2201	34.2201	1.1400e-003	0.0000	34.2487

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Industrial Park	32.78	11.95	3.50	88,909	88,909
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	32.78	11.95	3.50	88,909	88,909

4.3 Trip Type Information

Land Use	Miles					Trip %					Trip Purpose %				
	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-S or C-C	H-O or C-C	Primary	Diverted	Pass-by	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	59.00	28.00	13.00	79	19	2	79	19	2
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.521731	0.039973	0.225427	0.136952	0.032686	0.006663	0.016461	0.009421	0.001593	0.001171	0.005476	0.000813	0.001634
Other Non-Asphalt Surfaces	0.521731	0.039973	0.225427	0.136952	0.032686	0.006663	0.016461	0.009421	0.001593	0.001171	0.005476	0.000813	0.001634
Parking Lot	0.521731	0.039973	0.225427	0.136952	0.032686	0.006663	0.016461	0.009421	0.001593	0.001171	0.005476	0.000813	0.001634

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	tons/yr										MT/yr					
	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
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9.7820	9.7820	0.0000	0.0000	9.7820
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9.7820	9.7820	0.0000	0.0000	9.7820
Natural Gas Mitigated	5.7000e-004	4.6000e-003	3.8600e-003	3.0000e-005	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	0.0000	5.0051	5.0051	1.0000e-004	9.0000e-005	5.0348
Natural Gas Unmitigated	5.7000e-004	4.6000e-003	3.8600e-003	3.0000e-005	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	0.0000	5.0051	5.0051	1.0000e-004	9.0000e-005	5.0348

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**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					CO2e
		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	
Industrial Park	93792	5.1000e-004	4.6000e-003	3.8600e-003	3.0000e-005	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	0.0000	5.0051	5.0051	1.0000e-004	9.0000e-005	5.0348
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.1000e-004</b>	<b>4.6000e-003</b>	<b>3.8600e-003</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>5.0051</b>	<b>5.0051</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>5.0348</b>

**Mitigated**

Land Use	Natural Gas Use kBTU/yr	tons/yr										MT/yr					CO2e
		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	
Industrial Park	93792	5.1000e-004	4.6000e-003	3.8600e-003	3.0000e-005	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	3.5000e-004	0.0000	5.0051	5.0051	1.0000e-004	9.0000e-005	5.0348
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.1000e-004</b>	<b>4.6000e-003</b>	<b>3.8600e-003</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>5.0051</b>	<b>5.0051</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>5.0348</b>

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**5.3 Energy by Land Use - Electricity**

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Industrial Park	53088	9.4698	0.0000	0.0000	9.4698
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1750	0.3122	0.0000	0.0000	0.3122
<b>Total</b>		<b>9.7820</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.7820</b>

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Industrial Park	53088	9.4698	0.0000	0.0000	9.4698
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1750	0.3122	0.0000	0.0000	0.3122
<b>Total</b>		<b>9.7820</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.7820</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

Category	tons/yr										MT/yr						
	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	
Mitigated	0.0256	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	3.4000e-004
Unmitigated	0.0256	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	3.4000e-004

**6.2 Area by SubCategory**

Unmitigated

SubCategory	tons/yr										MT/yr						
	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	
Architectural Coating	6.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	3.4000e-004
<b>Total</b>	<b>0.0256</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.4000e-004</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Annual

**6.2 Area by SubCategory**

Mitigated

SubCategory	tons/yr										MT/yr						
	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	
Architectural Coating	6.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.2000e-004	3.2000e-004	0.0000	0.0000	0.0000	3.4000e-004
<b>Total</b>	<b>0.0256</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.4000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.4235	0.0362	8.5000e-004	2.5823
Unmitigated	1.4235	0.0362	8.5000e-004	2.5823

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	1.11 / 0	1.4235	0.0362	8.5000e-004	2.5823
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.4235</b>	<b>0.0362</b>	<b>8.5000e-004</b>	<b>2.5823</b>

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**7.2 Water by Land Use**

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Industrial Park	1.11 / 0	1.4235	0.0362	8.5000e-004	2.5823
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.4235</b>	<b>0.0362</b>	<b>8.5000e-004</b>	<b>2.5823</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.2078	0.0714	0.0000	2.9923
Unmitigated	1.2078	0.0714	0.0000	2.9923

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	5.95	1.2078	0.0714	0.0000	2.9923
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.2078</b>	<b>0.0714</b>	<b>0.0000</b>	<b>2.9923</b>

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**8.2 Waste by Land Use**

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Industrial Park	5.95	1.2078	0.0714	0.0000	2.9923
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.2078</b>	<b>0.0714</b>	<b>0.0000</b>	<b>2.9923</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Annual

## **11.0 Vegetation**

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TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**TKPOA Corporation Yard - New Building**  
 El Dorado-Lake Tahoe County, Summer

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	4.80	1000sqft	0.11	4,800.00	0
Other Non-Asphalt Surfaces	8.10	1000sqft	0.19	8,100.00	0
Parking Lot	5.00	1000sqft	0.11	5,000.00	0

**1.2 Other Project Characteristics**

Urbanization Rural Wind Speed (m/s) 2.7 Precipitation Freq (Days) 70  
 Climate Zone 14 Operational Year 2021

Utility Company User Defined

CO2 Intensity (lb/MW/hr) 393.26 CH4 Intensity (lb/MW/hr) 0 N2O Intensity (lb/MW/hr) 0

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - CO2e factor calculated from total emissions in GHG Mandatory Reporting Rule from CARB (99,467 MTCO2e) and total Utility Consumption from CEC (558 GWh) for Liberty Utility in 2016.

Land Use -

Construction Phase - CalEEMod has assumed a conservatively shorter construction schedule than the 3-year schedule planned for the project.

Grading - Max area disturbed is 1.02 acres.

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	0.00	1.02
tblGrading	AcresOfGrading	0.50	1.02
tblProjectCharacteristics	CO2IntensityFactor	0	393.26
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

**2.0 Emissions Summary**



TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**2.2 Overall Operational**  
**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	0.1405	2.0000e-005	1.8300e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.9200e-003	3.9200e-003	3.9200e-003	1.0000e-005		4.1800e-003
Energy	2.7700e-003	0.0252	0.0212	1.5000e-004	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	30.2311	30.2311	30.2311	5.8000e-004	5.5000e-004	30.4108
Mobile	0.0822	0.2583	0.9663	2.8300e-003	0.2409	2.7100e-003	0.2437	0.0644	2.5400e-003	0.0669	283.3715	283.3715	283.3715	9.1600e-003		283.6003
<b>Total</b>	<b>0.2255</b>	<b>0.2836</b>	<b>0.9893</b>	<b>2.9800e-003</b>	<b>0.2409</b>	<b>4.6300e-003</b>	<b>0.2456</b>	<b>0.0644</b>	<b>4.4600e-003</b>	<b>0.0689</b>	<b>313.6065</b>	<b>313.6065</b>	<b>313.6065</b>	<b>9.7500e-003</b>	<b>5.5000e-004</b>	<b>314.0153</b>

**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	0.1405	2.0000e-005	1.8300e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.9200e-003	3.9200e-003	3.9200e-003	1.0000e-005		4.1800e-003
Energy	2.7700e-003	0.0252	0.0212	1.5000e-004	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	30.2311	30.2311	30.2311	5.8000e-004	5.5000e-004	30.4108
Mobile	0.0822	0.2583	0.9663	2.8300e-003	0.2409	2.7100e-003	0.2437	0.0644	2.5400e-003	0.0669	283.3715	283.3715	283.3715	9.1600e-003		283.6003
<b>Total</b>	<b>0.2255</b>	<b>0.2836</b>	<b>0.9893</b>	<b>2.9800e-003</b>	<b>0.2409</b>	<b>4.6300e-003</b>	<b>0.2456</b>	<b>0.0644</b>	<b>4.4600e-003</b>	<b>0.0689</b>	<b>313.6065</b>	<b>313.6065</b>	<b>313.6065</b>	<b>9.7500e-003</b>	<b>5.5000e-004</b>	<b>314.0153</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

	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
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	Site Preparation	Site Preparation	5/1/2019	5/1/2019	5	1	
2	Grading	Grading	5/2/2019	5/3/2019	5	2	
3	Building Construction	Building Construction	5/4/2019	9/20/2019	5	100	
4	Paving	Paving	9/21/2019	9/27/2019	5	5	
5	Architectural Coating	Architectural Coating	9/28/2019	10/4/2019	5	5	

Acres of Grading (Site Preparation Phase): 1.02

Acres of Grading (Grading Phase): 1.02

Acres of Paving: 0.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,200; Non-Residential Outdoor: 2,400; Striped Parking Area: 786 (Architectural Coating – sqft)

OffRoad Equipment

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	3.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.2 Site Preparation - 2019**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					1.0817	0.0000	1.0817	0.1168	0.0000	0.1168			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003	0.3672	0.3672	0.3672	0.3378	0.3378	0.3378	965.1690	965.1690	965.1690	0.3054		972.8032
<b>Total</b>	<b>0.7195</b>	<b>8.9170</b>	<b>4.1407</b>	<b>9.7500e-003</b>	<b>1.0817</b>	<b>0.3672</b>	<b>1.4489</b>	<b>0.1168</b>	<b>0.3378</b>	<b>0.4546</b>		<b>965.1690</b>	<b>965.1690</b>	<b>0.3054</b>		<b>972.8032</b>

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0398	0.0224	0.2926	6.7000e-004	0.0639	4.8000e-004	0.0643	0.0169	4.4000e-004	0.0174	66.9029	66.9029	66.9029	2.2600e-003		66.9594
<b>Total</b>	<b>0.0398</b>	<b>0.0224</b>	<b>0.2926</b>	<b>6.7000e-004</b>	<b>0.0639</b>	<b>4.8000e-004</b>	<b>0.0643</b>	<b>0.0169</b>	<b>4.4000e-004</b>	<b>0.0174</b>		<b>66.9029</b>	<b>66.9029</b>	<b>2.2600e-003</b>		<b>66.9594</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.2 Site Preparation - 2019**

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					1.0817	0.0000	1.0817	0.1168	0.0000	0.1168			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003	0.3672	0.3672	0.3672	0.3378	0.3378	0.3378	0.0000	965.1690	965.1690	0.3054		972.8032
<b>Total</b>	<b>0.7195</b>	<b>8.9170</b>	<b>4.1407</b>	<b>9.7500e-003</b>	<b>1.0817</b>	<b>0.3672</b>	<b>1.4489</b>	<b>0.1168</b>	<b>0.3378</b>	<b>0.4546</b>	<b>0.0000</b>	<b>965.1690</b>	<b>965.1690</b>	<b>0.3054</b>		<b>972.8032</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0398	0.0224	0.2926	6.7000e-004	0.0639	4.8000e-004	0.0643	0.0169	4.4000e-004	0.0174			66.9029	2.2600e-003		66.9594
<b>Total</b>	<b>0.0398</b>	<b>0.0224</b>	<b>0.2926</b>	<b>6.7000e-004</b>	<b>0.0639</b>	<b>4.8000e-004</b>	<b>0.0643</b>	<b>0.0169</b>	<b>4.4000e-004</b>	<b>0.0174</b>			<b>66.9029</b>	<b>2.2600e-003</b>		<b>66.9594</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.3 Grading - 2019**

**Unmitigated Construction On-Site**

Category	lb/day															
	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
Fugitive Dust					1.2936	0.0000	1.2936	0.4722	0.0000	0.4722			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120	0.5371	0.5371	0.5371	0.5125	0.5125	0.5125	1,159.6570	1,159.6570	0.2211	0.2211		1,165.1847
<b>Total</b>	<b>0.9530</b>	<b>8.6039</b>	<b>7.6917</b>	<b>0.0120</b>	<b>1.2936</b>	<b>0.5371</b>	<b>1.8307</b>	<b>0.4722</b>	<b>0.5125</b>	<b>0.9847</b>	<b>1,159.6570</b>	<b>1,159.6570</b>	<b>0.2211</b>	<b>0.2211</b>		<b>1,165.1847</b>

**Unmitigated Construction Off-Site**

Category	lb/day															
	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
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
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
Worker	0.0796	0.0447	0.5852	1.3500e-003	0.1277	9.6000e-004	0.1287	0.0339	8.8000e-004	0.0348	133.8058	133.8058	4.5200e-003	4.5200e-003		133.9187
<b>Total</b>	<b>0.0796</b>	<b>0.0447</b>	<b>0.5852</b>	<b>1.3500e-003</b>	<b>0.1277</b>	<b>9.6000e-004</b>	<b>0.1287</b>	<b>0.0339</b>	<b>8.8000e-004</b>	<b>0.0348</b>	<b>133.8058</b>	<b>133.8058</b>	<b>4.5200e-003</b>	<b>4.5200e-003</b>		<b>133.9187</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.3 Grading - 2019**

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					1.2936	0.0000	1.2936	0.4722	0.0000	0.4722			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120	0.5371	0.5371	0.5371	0.5125	0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
<b>Total</b>	<b>0.9530</b>	<b>8.6039</b>	<b>7.6917</b>	<b>0.0120</b>	<b>1.2936</b>	<b>0.5371</b>	<b>1.8307</b>	<b>0.4722</b>	<b>0.5125</b>	<b>0.9847</b>	<b>0.0000</b>	<b>1,159.6570</b>	<b>1,159.6570</b>	<b>0.2211</b>		<b>1,165.1847</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0796	0.0447	0.5852	1.3500e-003	0.1277	9.6000e-004	0.1287	0.0339	8.8000e-004	0.0348		133.8058	133.8058	4.5200e-003		133.9187
<b>Total</b>	<b>0.0796</b>	<b>0.0447</b>	<b>0.5852</b>	<b>1.3500e-003</b>	<b>0.1277</b>	<b>9.6000e-004</b>	<b>0.1287</b>	<b>0.0339</b>	<b>8.8000e-004</b>	<b>0.0348</b>		<b>133.8058</b>	<b>133.8058</b>	<b>4.5200e-003</b>		<b>133.9187</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

Category	lb/day																
	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	
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568			1,136.5892
<b>Total</b>	<b>0.9576</b>	<b>9.8207</b>	<b>7.5432</b>	<b>0.0114</b>		<b>0.6054</b>	<b>0.6054</b>		<b>0.5569</b>	<b>0.5569</b>		<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>			<b>1,136.5892</b>

**Unmitigated Construction Off-Site**

Category	lb/day																
	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	
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	0.0152	0.3894	0.1299	7.5000e-004	0.0183	3.2000e-003	0.0215	5.2500e-003	3.0600e-003	8.3000e-003		78.2131	78.2131	1.9200e-003			78.2612
Worker	0.0637	0.0358	0.4681	1.0800e-003	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		107.0446	107.0446	3.6100e-003			107.1350
<b>Total</b>	<b>0.0789</b>	<b>0.4252</b>	<b>0.5981</b>	<b>1.8300e-003</b>	<b>0.1204</b>	<b>3.9700e-003</b>	<b>0.1244</b>	<b>0.0324</b>	<b>3.7700e-003</b>	<b>0.0361</b>		<b>185.2578</b>	<b>185.2578</b>	<b>5.5300e-003</b>			<b>185.3961</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.4 Building Construction - 2019**  
**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.9576</b>	<b>9.8207</b>	<b>7.5432</b>	<b>0.0114</b>		<b>0.6054</b>	<b>0.6054</b>		<b>0.5569</b>	<b>0.5569</b>	<b>0.0000</b>	<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0152	0.3894	0.1299	7.5000e-004	0.0183	3.2000e-003	0.0215	5.2500e-003	3.0600e-003	8.3000e-003		78.2131	78.2131	1.9200e-003		78.2612
Worker	0.0637	0.0358	0.4681	1.0800e-003	0.1022	7.7000e-004	0.1030	0.0271	7.1000e-004	0.0278		107.0446	107.0446	3.6100e-003		107.1350
<b>Total</b>	<b>0.0789</b>	<b>0.4252</b>	<b>0.5981</b>	<b>1.8300e-003</b>	<b>0.1204</b>	<b>3.9700e-003</b>	<b>0.1244</b>	<b>0.0324</b>	<b>3.7700e-003</b>	<b>0.0361</b>		<b>185.2578</b>	<b>185.2578</b>	<b>5.5300e-003</b>		<b>185.3961</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.5 Paving - 2019**

**Unmitigated Construction On-Site**

Category	lb/day											CO2e				
	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
Off-Road	0.8300	7.8446	7.1478	0.0113		0.4425	0.4425		0.4106	0.4106		1,055.182 3	1,055.182 3	0.3016		1,062.723 1
Paving	0.0576					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000
<b>Total</b>	<b>0.8876</b>	<b>7.8446</b>	<b>7.1478</b>	<b>0.0113</b>		<b>0.4425</b>	<b>0.4425</b>		<b>0.4106</b>	<b>0.4106</b>		<b>1,055.182 3</b>	<b>1,055.182 3</b>	<b>0.3016</b>		<b>1,062.723 1</b>

**Unmitigated Construction Off-Site**

Category	lb/day											CO2e				
	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
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	0.1433	0.0805	1.0533	2.4200e-003	0.2299	1.7300e-003	0.2316	0.0610	1.5900e-003	0.0626		240.8504	240.8504	8.1300e-003		241.0537
<b>Total</b>	<b>0.1433</b>	<b>0.0805</b>	<b>1.0533</b>	<b>2.4200e-003</b>	<b>0.2299</b>	<b>1.7300e-003</b>	<b>0.2316</b>	<b>0.0610</b>	<b>1.5900e-003</b>	<b>0.0626</b>		<b>240.8504</b>	<b>240.8504</b>	<b>8.1300e-003</b>		<b>241.0537</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.5 Paving - 2019**

**Mitigated Construction On-Site**

Category	lb/day															
	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
Off-Road	0.8300	7.8446	7.1478	0.0113		0.4425	0.4425	0.4106	0.4106	0.4106	0.0000	1,055.182 3	1,055.182 3	0.3016		1,062.723 1
Paving	0.0576					0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000
<b>Total</b>	<b>0.8876</b>	<b>7.8446</b>	<b>7.1478</b>	<b>0.0113</b>		<b>0.4425</b>	<b>0.4425</b>	<b>0.4106</b>	<b>0.4106</b>	<b>0.4106</b>	<b>0.0000</b>	<b>1,055.182 3</b>	<b>1,055.182 3</b>	<b>0.3016</b>		<b>1,062.723 1</b>

**Mitigated Construction Off-Site**

Category	lb/day															
	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
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	0.1433	0.0805	1.0533	2.4200e-003	0.2299	1.7300e-003	0.2316	0.0610	1.5900e-003	0.0626	240.8504	240.8504	240.8504	8.1300e-003		241.0537
<b>Total</b>	<b>0.1433</b>	<b>0.0805</b>	<b>1.0533</b>	<b>2.4200e-003</b>	<b>0.2299</b>	<b>1.7300e-003</b>	<b>0.2316</b>	<b>0.0610</b>	<b>1.5900e-003</b>	<b>0.0626</b>	<b>240.8504</b>	<b>240.8504</b>	<b>240.8504</b>	<b>8.1300e-003</b>		<b>241.0537</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.6 Architectural Coating - 2019**  
**Unmitigated Construction On-Site**

Category	lb/day															
	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
Archit. Coating	24.0696					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288	0.1288	0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>24.3360</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>	<b>0.1288</b>	<b>0.1288</b>	<b>0.1288</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

**Unmitigated Construction Off-Site**

Category	lb/day															
	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
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
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
Worker	0.0159	8.9500e-003	0.1170	2.7000e-004	0.0256	1.9000e-004	0.0257	6.7700e-003	1.8000e-004	6.9500e-003		26.7612	26.7612	9.0000e-004		26.7837
<b>Total</b>	<b>0.0159</b>	<b>8.9500e-003</b>	<b>0.1170</b>	<b>2.7000e-004</b>	<b>0.0256</b>	<b>1.9000e-004</b>	<b>0.0257</b>	<b>6.7700e-003</b>	<b>1.8000e-004</b>	<b>6.9500e-003</b>		<b>26.7612</b>	<b>26.7612</b>	<b>9.0000e-004</b>		<b>26.7837</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**3.6 Architectural Coating - 2019**  
**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Archit. Coating	24.0696					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
<b>Total</b>	<b>24.3360</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0238</b>		<b>282.0423</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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
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
Worker	0.0159	8.9500e-003	0.1170	2.7000e-004	0.0256	1.9000e-004	0.0257	6.7700e-003	1.8000e-004	6.9500e-003	26.7612	26.7612	26.7612	9.0000e-004		26.7837
<b>Total</b>	<b>0.0159</b>	<b>8.9500e-003</b>	<b>0.1170</b>	<b>2.7000e-004</b>	<b>0.0256</b>	<b>1.9000e-004</b>	<b>0.0257</b>	<b>6.7700e-003</b>	<b>1.8000e-004</b>	<b>6.9500e-003</b>	<b>26.7612</b>	<b>26.7612</b>	<b>26.7612</b>	<b>9.0000e-004</b>		<b>26.7837</b>

**4.0 Operational Detail - Mobile**

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**4.1 Mitigation Measures Mobile**

Category	lb/day															
	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
Mitigated	0.0822	0.2583	0.9663	2.8300e-003	0.2409	2.7100e-003	0.2437	0.0644	2.5400e-003	0.0669	283.3715	283.3715	283.3715	9.1600e-003		283.6003
Unmitigated	0.0822	0.2583	0.9663	2.8300e-003	0.2409	2.7100e-003	0.2437	0.0644	2.5400e-003	0.0669	283.3715	283.3715	283.3715	9.1600e-003		283.6003

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Industrial Park	32.78	11.95	3.50	88,909	88,909
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>32.78</b>	<b>11.95</b>	<b>3.50</b>	<b>88,909</b>	<b>88,909</b>

**4.3 Trip Type Information**

Land Use	Miles						Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-S or C-C	H-O or C-C	Primary	Diverted	Pass-by
Industrial Park	14.70	6.60	6.60	59.00	28.00	13.00	79	19	2			
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0			
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0			

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.521731	0.039973	0.225427	0.136952	0.032686	0.006663	0.016461	0.009421	0.001593	0.001171	0.005476	0.000813	0.001634
Other Non-Asphalt Surfaces	0.521731	0.039973	0.225427	0.136952	0.032686	0.006663	0.016461	0.009421	0.001593	0.001171	0.005476	0.000813	0.001634
Parking Lot	0.521731	0.039973	0.225427	0.136952	0.032686	0.006663	0.016461	0.009421	0.001593	0.001171	0.005476	0.000813	0.001634

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	lb/day															
	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
NaturalGas Mitigated	2.7700e-003	0.0252	0.0212	1.5000e-004	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	30.2311	30.2311	30.2311	5.8000e-004	5.5000e-004	30.4108
NaturalGas Unmitigated	2.7700e-003	0.0252	0.0212	1.5000e-004	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	30.2311	30.2311	30.2311	5.8000e-004	5.5000e-004	30.4108

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
Industrial Park	256.964	2.7700e-003	0.0252	0.0212	1.5000e-004	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	30.2311	30.2311	30.2311	5.8000e-004	5.5000e-004	30.4108
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.7700e-003</b>	<b>0.0252</b>	<b>0.0212</b>	<b>1.5000e-004</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>30.2311</b>	<b>30.2311</b>	<b>30.2311</b>	<b>5.8000e-004</b>	<b>5.5000e-004</b>	<b>30.4108</b>

Mitigated

Land Use	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																	
Industrial Park	0.256964	2.7700e-003	0.0252	0.0212	1.5000e-004	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	1.9100e-003	30.2311	30.2311	30.2311	5.8000e-004	5.5000e-004	30.4108
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.7700e-003</b>	<b>0.0252</b>	<b>0.0212</b>	<b>1.5000e-004</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>30.2311</b>	<b>30.2311</b>	<b>30.2311</b>	<b>5.8000e-004</b>	<b>5.5000e-004</b>	<b>30.4108</b>

**6.0 Area Detail**

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**6.1 Mitigation Measures Area**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Mitigated	0.1405	2.0000e-005	1.8300e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.9200e-003	3.9200e-003	3.9200e-003	1.0000e-005		4.1800e-003
Unmitigated	0.1405	2.0000e-005	1.8300e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.9200e-003	3.9200e-003	3.9200e-003	1.0000e-005		4.1800e-003

**6.2 Area by SubCategory**

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.0330					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8300e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	3.9200e-003	3.9200e-003	3.9200e-003	1.0000e-005		4.1800e-003
<b>Total</b>	<b>0.1405</b>	<b>2.0000e-005</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>3.9200e-003</b>	<b>3.9200e-003</b>	<b>3.9200e-003</b>	<b>1.0000e-005</b>		<b>4.1800e-003</b>

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

**6.2 Area by SubCategory**

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Architectural Coating	0.0330				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1074				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8300e-003	0.0000	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005		3.9200e-003	3.9200e-003	1.0000e-005		4.1800e-003
<b>Total</b>	<b>0.1405</b>	<b>2.0000e-005</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>3.9200e-003</b>	<b>3.9200e-003</b>	<b>1.0000e-005</b>		<b>4.1800e-003</b>

**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 Stationary Equipment**

**Fire Pumps and Emergency Generators**

TKPOA Corporation Yard - New Building - El Dorado-Lake Tahoe County, Summer

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

**Boilers**

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

**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

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# **Appendix C**

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**Tahoe Keys Property Owners Association  
(TKPOA) Corporation Yard Relocation  
Project Cultural Resource Inventory**



**TAHOE KEYS PROPERTY OWNERS ASSOCIATION (TKPOA)  
CORPORATION YARD RELOCATION PROJECT  
CULTURAL RESOURCE INVENTORY**

**Report prepared by**

**Susan Lindström, Ph.D. (RPA), Consulting Archaeologist**

**Truckee, California**

**With**

**Devin Blom, Battle Born GIS Consulting**

**Virginia City Highlands, Nevada**

**Report prepared for**

**Ascent Environmental, Inc.**

**Stateline, Nevada**

**On behalf of**

**California Tahoe Conservancy**

**South Lake Tahoe, California**

**May 2018**



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## SUMMARY

To further on-going restoration work in the Upper Truckee River Marsh (South Lake Tahoe, El Dorado County), the California Tahoe Conservancy (CTC) plans to relocate the existing Tahoe Keys Property Owners Association Corporation Yard (TKPOA Corp Yard), located on an approximate two-acre parcel inside the marsh, to an alternative one-acre parcel owned by the CTC and comprising disturbed fill along the marsh margin. Existing buildings/structures (dating from ca. 1975) would be demolished, and the ground surface would be restored and revegetated.

As part of baseline environmental studies, the project applicant is required to consider potential project impacts on cultural resources under the California Environmental Quality Act (CEQA Section 5024, Public Resource Code) and the Tahoe Regional Planning Agency (TRPA Code of Ordinances Chapter 67). Cultural resource studies are customarily performed in a series of phases, each one building upon information gained from the prior study. The inventory phase (*Phase I*) involves pre-field research and Native American contact (*Phase IA*), archaeological field reconnaissance/resource discovery (*Phase IB*), and documentation of any cultural resources located within the project area (*Phase IC*). If cultural properties are present and if they may be subject to project-related impacts, their significance is evaluated (*Phase 2*) according to eligibility criteria established in the California Register of Historical Resources. If project redesign to avoid impacts to significant resources is unfeasible, then mitigation measures are implemented (*Phase 3*). Mitigation (or data recovery) typically involves supplemental archival research, field excavation, photo documentation, mapping, archaeological monitoring, interpretation, etc. The objectives of this study are designed to satisfy cultural guidelines pertaining to *Phase IA* and *Phase IB*.

To accomplish these tasks, Ascent Environmental, Inc. contracted with Susan Lindstrom, Ph.D., Consulting Archaeologist. Her qualifications to perform these tasks include 44 years of professional experience in regional prehistory and history, a doctoral degree in anthropology/archaeology, accreditation since 1982 by the Register of Professional Archaeologists (formerly Society of Professional Archaeologists), and certification by the Secretary of Interior's Professional Qualifications Standards (48 FR 44738-44739) for archaeology, history and related disciplines.

The area encompassing the existing TKPOA Corp Yard was sufficiently analyzed by AECOM, in 2007 and 2012 as part of the Upper Truckee River and Marsh Restoration Project. The *Phase IA* records search was initiated in 2007 and Native American Consultation was accomplished in 2007 and 2012. The *Phase IB* field survey was performed in 2007 and 2012. No cultural resources were identified within the existing Corp Yard and AECOM recommended a finding of "no adverse effect to historic properties." The U.S. Bureau of Reclamation and the State Historic Preservation Office concurred with the AECOM cultural study findings in 2013-2014.

While this earlier work covered the existing TKPOA Corp Yard, it did not address the proposed Corp Yard locale, which is the focus of the current study. As such, a new *Phase IA* records search was initiated and CTC updated prior Native American outreach. The proposed TKPOA Corp Yard area was given an intensive *Phase IB* field survey. Since the prior field survey is now over 10 years old, the existing corp yard was only briefly field checked and cursorily examined.

No cultural resources were encountered. Native American consultation has been initiated by CTC according to CEQA guidelines and mandates under California Assembly Bill 52 (pursuant to PRC 21080.3.1); no Native American concerns have been identified. Buildings within the existing Corp Yard that are slated for demolition date from ca. 1975. Being less than 50 years old, they are not considered to be historic and were not addressed as cultural resources.

In terms of CEQA and TRPA guidelines, it is recommended that the project should not alter or adversely affect the physical or aesthetic properties of any significant heritage structure, site, feature, or object. Pending implementation of recommended mitigation measures, this project should not have the potential to cause a physical change that would affect unique ethnic cultural values or restrict religious or sacred uses. The potential effects of this project on cultural resources are not considered to be a significant effect on the environment.

## **PROJECT BACKGROUND AND SCOPE**

### **PROJECT DESCRIPTION AND LOCATION**

The Tahoe Keys Property Owners Association Corporation Yard Relocation Project (project) involves the relocation and reconstruction of the Tahoe Keys Property Owners Association (TKPOA) corporation yard (Corp Yard) from a 2.21-acre site within the Upper Truckee Marsh (APN 022-210-37) to a 0.99-acre parcel (Assessor's Parcel Number [APN] 022-210-41) adjacent to the Tahoe Keys Marina on Venice Drive in the City of South Lake Tahoe (El Dorado County). Both the existing and proposed TKPOA corporation yards fall with Township 12 North, Range 18 East, Section 4 (figures 1-4).

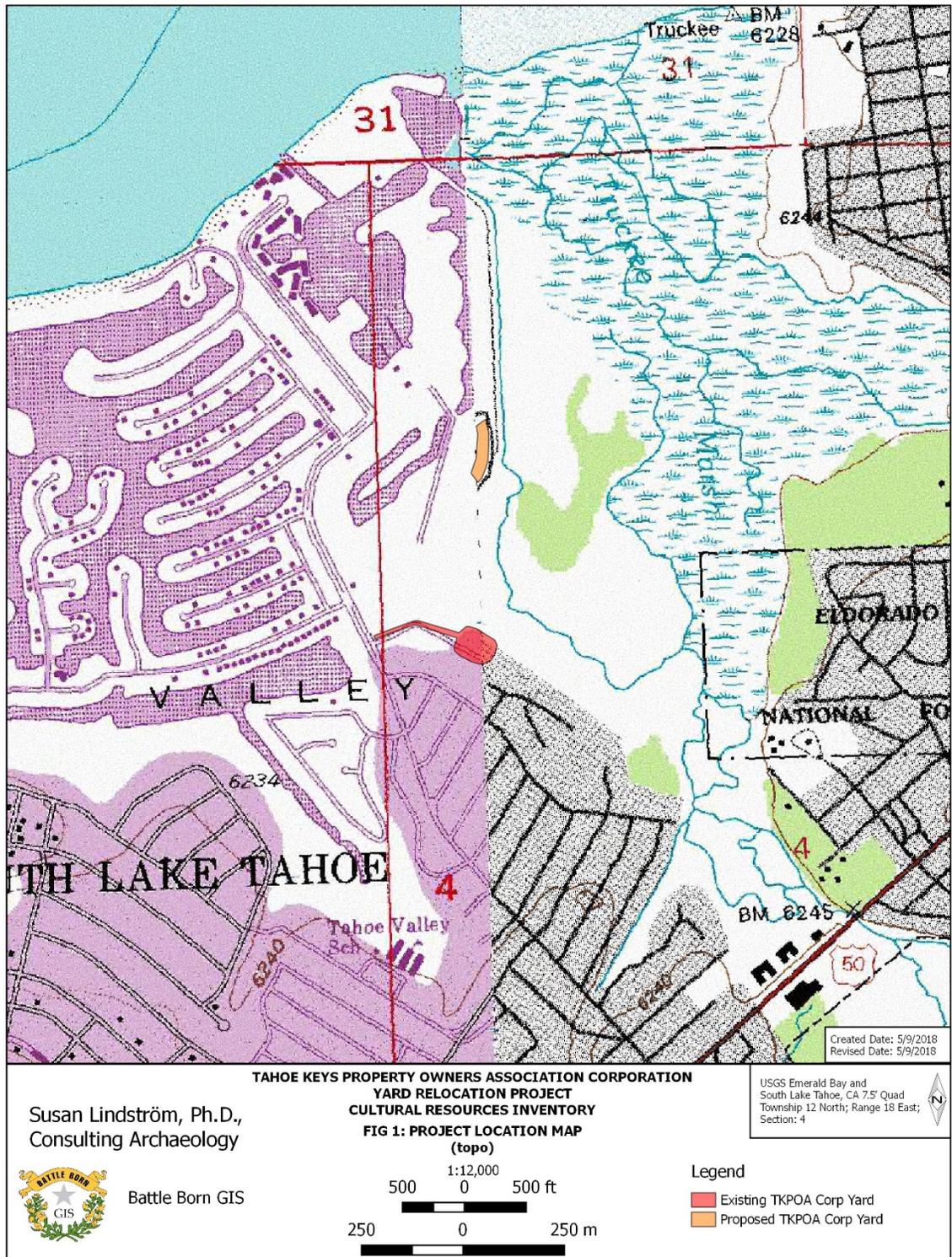
The existing corporation yard site is operated and maintained by the California Tahoe Conservancy (CTC) and the proposed corporation yard site is owned and managed by the CTC. With the project, CTC would transfer ownership of the 0.99-acre parcel to TKPOA and would terminate the current 99-year lease with TKPOA for operation of the existing corporation yard on the 2.21-acre site within the marsh. This transaction would make the existing corporation yard available for future demolition, site preparation, and ecosystem restoration as part of the ongoing Upper Truckee River and Marsh Restoration Project.

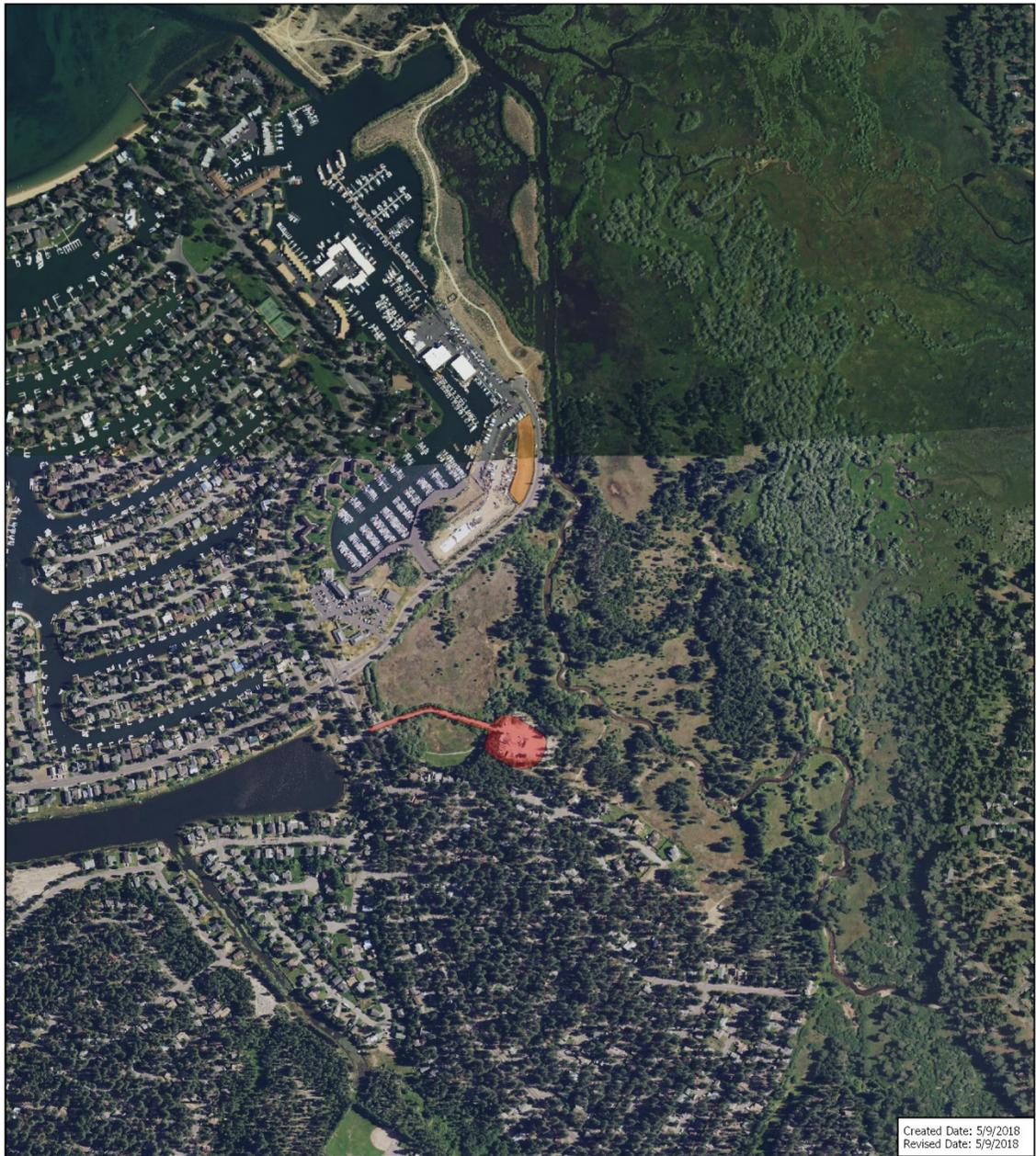
The Conservancy would establish a new short-term lease with TKPOA on the existing corporation yard site to allow TKPOA to use the site while it completes construction of the relocated Corp Yard, at the same time affording CTC an area from which to base on-going restoration activities associated with the Conservancy's Upper Truckee River and Marsh Restoration Project. Restoration activities are part of a separate project, the impacts of which were evaluated in an environmental impact report (EIR)/environmental impact statement (EIS)/EIS prepared for that project in 2015. The area encompassing the existing TKPOA Corp Yard was sufficiently analyzed in a cultural resource study by AECOM, in 2007 and 2012 (Ludwig 2012). The U.S. Bureau of Reclamation and the State Historic Preservation Office concurred with the AECOM cultural study findings in 2013-2014. These actions are adequately addressed in the previous environmental document and are not reexamined herein.

### **REGULATORY FRAMEWORK**

As part of the planning process, baseline environmental studies are required. The proposed project action requires that environmental review must meet environmental statues of the California Environmental Quality Act (CEQA Section 5024, Public Resource Code). For the purposes of CEQA, significant "historical resources" and "unique archaeological resources" are defined as (Section 15064.5[a]):

- (1) A resource listed in or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (Pub. Res. Code SS5024.1, Title 14 CCR, Section 4850 et seq.).





Created Date: 5/9/2018  
 Revised Date: 5/9/2018

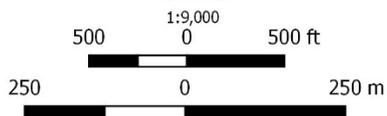
Susan Lindström, Ph.D.,  
 Consulting Archaeology



Battle Born GIS

**TAHOE KEYS PROPERTY OWNERS ASSOCIATION CORPORATION  
 YARD RELOCATION PROJECT  
 CULTURAL RESOURCES INVENTORY  
 FIG 2: PROJECT LOCATION MAP  
 (aerial)**

USGS Emerald Bay and  
 South Lake Tahoe, CA 7.5' Quad  
 Township 12 North; Range 18 East;  
 Section: 4



**Legend**

- Existing TKPOA Corp Yard
- Proposed TKPOA Corp Yard

