

Mitigation Monitoring and Reporting Program (MMRP) for the 2024 Carnegie State Vehicular Recreation Area General Plan Update

The following measures shall be implemented to offset air quality impacts as described in Impact 3.3-1 and Impact 3.3-2 of the Air Quality Section of the Draft EIR for the General Plan Update

Mitigation Measure for Air Quality

OM Goal 6: Limit potential air quality impacts on residential properties within the planning area that could result from construction, maintenance, and OHV recreation activities.

OM Guideline 6.1: Implement current Bay Area Air Quality Management District (BAAQMD) Table 5-2 Basic Best Management Practices for Construction-Related Fugitive Dust Emissions for all projects as feasible and applicable, which may include the following measures:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
- All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
- All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
- All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
- All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.
- All trucks and equipment, including their tires, shall be washed off prior to leaving the site.
- Unpaved roads providing access to sites located 100 feet or further from a paved road shall be treated with a 6- to 12-inch layer of compacted layer of wood chips, mulch, or gravel.
- Publicly visible signs shall be posted at the soil transfer site within BAAQMD, with the telephone number and person to contact at Alameda County regarding dust complaints. This person shall respond and take corrective action within 48 hours. BAAQMD's phone number also shall be visible, to ensure compliance with applicable regulations.

Timeline for implementation

- Ongoing

Party Responsible for Implementing

- DPR

Responsible for Verification of Compliance

- DPR

Reporting Requirements/Performance Criteria

- Field Compliance

Date Implemented

Status/Comment

OM Guideline 6.2: Implement current Bay Area Air Quality Management District (BAAQMD) Table 6-1 Best Management Practices for Construction-Related GHG Emissions for all projects as feasible and applicable, which may include the following measures:

- Use zero-emission and hybrid-powered equipment to the greatest extent possible, particularly if emissions are occurring near sensitive receptors or located within a BAAQMD-designated Community Air Risk Evaluation (CARE) area or Assembly Bill 617 community.
- Require all diesel-fueled off-road construction equipment be equipped with EPA Tier 4 Final compliant engines or better as a condition of the contract.
- As a condition of contract, all on-road heavy-duty trucks must be zero-emissions or meet the most stringent emissions standard, such as model year (MY) 2024 to 2026.
- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to no more than 2 minutes (A 5-minute limit is required by the state airborne toxics control measure [Title 13, Sections 2449(d)(3) and 2485 of the California Code of Regulations]). Provide clear signage that posts this requirement for workers at the entrances to the site and develop an enforceable mechanism to monitor idling time to ensure compliance with this measure.
- Prohibit off-road diesel-powered equipment from being in the “on” position for more than 10 hours per day.
- Use California Air Resources Board–approved renewable diesel fuel in off-road construction equipment and on-road trucks.
- Use U.S. Environmental Protection Agency SmartWay-certified trucks for deliveries and equipment transport.
- Require all construction equipment is maintained and properly tuned in accordance with manufacturer’s specifications. Equipment should be checked by a certified mechanic and determined to be running in proper condition prior to operation.
- Where grid power is available, prohibit portable diesel engines and provide electrical hook ups for electric construction tools, such as saws, drills and compressors, and using electric tools whenever feasible.
- Where grid power is not available, use alternative fuels, such as propane or solar electrical power, for generators at construction sites.
- Encourage and provide carpools, shuttle vans, transit passes, and/or secure bicycle parking to construction workers and offer meal options onsite or shuttles to nearby meal destinations for construction employees.
- Reduce electricity use in the construction office by using LED bulbs, powering off computers every day, and replacing heating and cooling units with more efficient ones.
- Minimize energy used during site preparation by deconstructing existing structures to the greatest extent feasible.
- Recycle or salvage nonhazardous construction and demolition debris, with a goal of recycling at least 15% more by weight than the diversion requirement in Title 24.
- Use locally sourced or recycled materials for construction materials (goal of at least 20% based on costs for building materials and based on volume for roadway, parking lot, sidewalk and curb materials). Wood products used should be certified through a sustainable forestry program.
- Use low-carbon concrete, minimize the amount of concrete used, and produce concrete on-site if it is more efficient and lower-emitting than transporting ready-mix.

- Develop a plan to efficiently use water for adequate dust control since substantial amounts of energy can be consumed during the pumping of water.
- Include all requirements in applicable bid documents, purchase orders, and contracts, with successful contractors demonstrating the ability to supply the compliant on- or off-road construction equipment for use prior to any ground-disturbing and construction activities.

Timeline for implementation

- Ongoing

Party Responsible for Implementing

- DPR

Responsible for Verification of Compliance

- DPR

Reporting Requirements/Performance Criteria

- Field Compliance

Date Implemented

Status/Comment

OM Guideline 6.3: Implement current BAAQMD Table 5-3 Enhanced Best Management Practices for Construction-Related Fugitive Dust Emissions as necessary and as feasible for projects with construction emissions above the BAAQMD thresholds of significance, which may include the following measures:

- Limit the simultaneous occurrence of excavation, grading, and ground-disturbing construction activities.
- Install windbreaks (e.g., trees, fences) on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity.
- Plant vegetative ground cover (e.g., fast-germinating native grass seed) in disturbed areas as soon as possible and watered appropriately until vegetation is established.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways from sites with a slope greater than one percent.
- Minimize the amount of excavated material or waste materials stored at the site.
- Hydroseed or apply non-toxic soil stabilizers to construction areas, including previously graded areas, that are inactive for at least ten calendar days.

Timeline for implementation

- Ongoing

Party Responsible for Implementing

- DPR

Responsible for Verification of Compliance

- DPR

Reporting Requirements/Performance Criteria

- Field Compliance

Date Implemented**Status/Comment**

OM Guideline 6.4: Implement San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII control measures for construction emissions of respirable particulate matter with an aerodynamic diameter of 10 micrometers or less (PM₁₀), which includes the following requirements: All disturbed areas, including storage piles, that are not being actively utilized for construction purposes shall be effectively stabilized of dust emissions using water, chemical stabilizer/suppressant, and covered with a tarp or other suitable cover or vegetative ground cover.

- All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.
- All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions through application of water or presoaking.
- With the demolition of buildings up to six stories in height, all exterior surfaces of the building shall be wetted during demolition.
- When materials are transported off-site, all material shall be covered or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained.
- All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.
- Following the addition of materials to or the removal of materials from the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant.
- Within urban areas, trackout shall be immediately removed when it extends 50 or more feet from the site and at the end of each workday.
- 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 implement measures to prevent carryout and trackout.

Timeline for implementation

- Ongoing

Party Responsible for Implementing

- DPR

Responsible for Verification of Compliance

- DPR

Reporting Requirements/Performance Criteria

- **Field Compliance**

Date Implemented

Status/Comment

OM Guideline 6.5: Implement current SJVAPCD Emission Reduction Clean Air Measures as necessary for projects with construction emissions above the SJVAPCD thresholds of significance, which may include the following measures (note that this is not an exhaustive list):

- Utilize the cleanest available off-road construction equipment, including the latest Tier diesel or electric equipment (e.g. scrapers, graders, trenchers, tractors, loaders, backhoes, etc.).
- Utilize electric on-road vehicles and off-road vehicles and equipment to the extent feasible.
- Limit traffic speeds on unpaved roads to 15 mph.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways from sites with a slope greater than 1 percent.
- Additional control measures (for projects that are large in area or located near sensitive receptors, or that for any other reason warrant additional emissions reductions):
- Construct and maintain wind barriers sufficient to limit visible dust to 20% opacity on the construction site.
- Utilize On-site water sprays or other dust-suppression materials.
- Suspend excavation and grading activity when winds exceed 20 mph.¹
- Minimize idling time (e.g., 5-minute maximum).
- Limit the hours of operation of heavy-duty equipment and/or the amount of equipment in use.
- Curtail construction during periods of high ambient concentrations of pollutants; this may include ceasing construction activity during the peak hour of vehicular traffic on adjacent roadways.
- Implement activity management (e.g., rescheduling activities to reduce short-term impacts).

Timeline for implementation

- **Ongoing**

Party Responsible for Implementing

- **DPR**

Responsible for Verification of Compliance

- **DPR**

Reporting Requirements/Performance Criteria

- **Field Compliance**

Date Implemented

Status/Comment

¹ Regardless of wind speed, an owner/operator must comply with Regulation VIII's 20 percent opacity limitation.

OM Goal 4: Coordinate with special-event sponsors to ensure that special events are well-managed and that appropriate visitor services are available.

OM Guideline 4.3: During special events, implement traffic dust control measures in dirt parking areas and parking measures, such as clearly defined staging and unloading areas for OHVs, designated parking areas for large vehicles and trailers, defined parking lots for regular-sized vehicles, designated emergency vehicle parking and access routes, and barricades to direct vehicles and pedestrians. Provide travel and parking information in special-event publications.

Timeline for implementation

- Ongoing

Party Responsible for Implementing

- DPR

Responsible for Verification of Compliance

- DPR

Reporting Requirements/Performance Criteria

- Field Compliance

Date Implemented

Status/Comment

OM Goal 7: Manage the SVRA to reduce to reduce regional air quality impacts from OHV recreation and related activities.

OM Guideline 7.1: Implement the following operational emission reduction measures to help reduce regional air quality emissions

- Prohibit campfires on all summer and winter Spare the Air days identified by either BAAQMD or SJVAPCD. In addition, campfires throughout the park from November 1 to the end of February should be limited to SJVAPCD’s “Check Before You Burn” program where campfires are restricted on days designated as “no burning for all” or “no burning unless registered.”
- Replace diesel-fueled maintenance equipment with alternative-fuel equipment (e.g., propane, electricity) when feasible.
- Install and utilize electric vehicle (EV) charger(s) to promote the use of low or zero-emission vehicles.
- Inform and suggest to all park visitors to limit the use of diesel generators for recreational vehicle cooling or heating during winter and summer Spare the Air days identified by either BAAQMD or SJVAPCD.
- Limit maintenance equipment engine idling to 2 minutes.