

# Construction Equipment & Vehicle Efficiency Plan for the Monterey Peninsula Water Supply Project (MPWSP) Desalination Plant

Prepared for:



California American Water  
511 Forest Lodge Road #100  
Pacific Grove, CA 93950

Prepared by:



CDM Smith  
2300 Clayton Road, Suite 950  
Concord, CA 94520



Denise Duffy & Associates, Inc  
947 Cass Street, Suite 5  
Monterey, CA 93940

This plan was reviewed and approved by:

Tyler Marriott

Digitally signed by Tyler Marriott  
DN: C=US,  
E=marriottts@cdmsmith.com,  
O=CDM Smith, OU=CCI,  
CN=Tyler Marriott  
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Construction Project Manager, CDM Constructors Inc.

This plan will be implemented into the  
work plans of both CDM Constructors Inc  
and their subcontractors, during  
construction activities.

## Construction Equipment & Vehicle Efficiency Plan

The following engineering controls will be implemented to increase the efficient use of construction equipment and vehicles, to the maximum extent feasible:

- All equipment will be properly maintained and tuned according to manufactures specifications.
- As possible, trucks used for hauling materials from the site will use low-sulfur diesel fuels.
- Vehicles utilized on this job will not be allowed to idle unnecessarily.
- CDM Smith shall ensure that line power is used instead of diesel generators when line power is available.
- CDM Smith will utilize the most efficient haul routes to ensure that all materials and debris hauling is conducted in a fuel-efficient manner.
- All state idling restrictions will be consistently complied with.
- Worker carpooling options will be provided by the CDM Smith.

Additionally, the following measures will be implemented to minimize airborne pollution generated by site operations, to the maximum extent feasible:

- Only California Air Resources Board (CARB) certified construction equipment will be used onsite.
- Low sulfur diesel fuel will be burned in all construction equipment, in accordance with the proposed CARB regulation to reduce public exposure to diesel particulate matter and other air contaminants.
- For diesel-fueled off-road construction equipment of more than 50 horsepower, CDM Smith shall make a good faith effort to use available construction equipment that meets the highest USEPA certified tiered emission standards or is alternatively powered (e.g., with electricity, natural gas, propane, methanol and ethanol blends, or gasoline) construction equipment. For all pieces of equipment that would neither meet Tier 4 emission standards nor be alternatively powered, CalAm or its construction contractor shall provide to the CPUC documentation from two local heavy construction equipment rental companies that indicate that the companies do not have access to higher-tiered equipment or alternatively powered equipment for the given class of equipment. Such documentation shall be provided to the CPUC at least two weeks prior to the anticipated use of those pieces of equipment. (Mitigation Measure 4.10-1a)
- In order to ensure that idling time for on road vehicles with a gross vehicular weight rating of 10,000 pounds or greater does not exceed the 5-minute limit established in

Section 2485 of Title 13 CCR Section 2485, and that idling time for off-road engines does not exceed the 5 minute limit established in Title 13 CCR Section 2449(d)(3), CDM Smith shall prepare and implement a written idling policy and distribute it to all equipment operators. The idling policy shall extend the 5-minute idling limit to cover all on road vehicles (regardless of gross vehicular weight rating) and shall further require that for all diesel-powered off-road engines, the idling limit is reduced to 2 minutes, while maintaining the exceptions specified in Title 13 CCR Section 2449(d)(3). Clear signage of these requirements shall be provided for construction workers at all access points to construction areas. (Mitigation Measure 4.10-1b)

- CalAm shall require its construction contractor(s) to implement a dust control plan that includes, at minimum, the following dust control measures:
  - Water all active construction areas at least three times daily;
  - Cover all trucks hauling soil, sand, and other loose materials and require trucks to maintain at least 2 feet of freeboard;
  - Apply water three times daily, or apply (non-toxic) soil stabilizers, on unpaved access roads, parking areas, and staging areas at construction sites;
  - Sweep daily (with water sweepers) all paved access roads, parking areas, and staging areas at construction sites;
  - Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets;
  - Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (previously graded areas inactive for 10 days or more);
  - Enclose, cover, or water twice daily exposed stockpiles (dirt, sand, etc.);
  - Limit traffic speeds on unpaved roads to 15 miles per hour;
  - Install sandbags or other erosion control measures to prevent silt runoff to public roadways;
  - Replant native, drought-tolerant vegetation in disturbed areas as quickly as possible;
  - Wheel washers shall be installed and used by truck operators at the exits of the construction sites to the MPWSP Desalination Plant.
- Post a publicly visible sign that specifies the telephone number and person to contact regarding dust complaints.
- This person shall respond to complaints and take corrective action within 48 hours. The phone number of the Monterey Bay Air Resources District (MBARD) shall also be visible to ensure compliance with MBARD rules. (Mitigation Measure 4.10-1c).