

Devil's Gate Reservoir Restoration Project - Hauling Process

A Responsible Approach to Sediment Removal

devilsgateproject.com

devilsgateproject@dpw.lacounty.gov

Hotline (626) 458-2507



Project Overview

- The 2009 Station Fire burned more than 160,000 acres of the San Gabriel Mountains. Subsequent storms brought in more than 1.3 million cubic yards (MCY) of sediment into Devil's Gate Reservoir (enough to fill the Rose Bowl three times).
- Devil's Gate Reservoir currently lacks storage capacity for even one major debris event from natural disasters such as fires.
- Los Angeles County Public Works must remove the excess sediment behind the dam to protect downstream communities along the Arroyo Seco; these include the Cities of Pasadena, South Pasadena, northeast Los Angeles and portions of the 110 Freeway.
- Once the project is complete, the reservoir will have 3 MCY of capacity to better manage flood risk.
- Public Works will establish a permanent maintenance area that is cleaned annually to avoid large-scale sediment removal projects in the future.



Enhancing Flood Protection through Sediment Removal

The excess sediment in Devil's Gate Reservoir could prevent the dam from doing its job, putting lives and property at risk. The sediment threatens to block the valves that allow dam operators to release stormwater in a controlled manner. For the past nine years, Public Works has engaged with local cities, businesses, non-profits, community organizations and stakeholders sharing information and listening to concerns. The sediment removal process will begin in April 2019.



Reducing Impacts with Hauling and Construction Requirements

Hauling Equipment: Public Works is taking numerous steps to minimize the project's impact, including the use of diesel trucks for hauling that meet or exceed the U.S. Environmental Protection Agency's 2010 emission standards. The following project elements have been incorporated to minimize impacts:

- New access ramps will keep sediment hauling away from residential areas.
- A temporary sound barrier will be built for the new entrance ramp being built from Oak Grove Drive.
- All hauling will be limited to Monday - Friday, 7 a.m. - 3:30 p.m., and coordinated to avoid school drop-offs. No hauling on weekends, holidays, or during major Rose Bowl events.
- Public Works will monitor and ensure that all trucks are in compliance.
- Truck operators will be required to provide copies of state required smoke opacity inspection test results.
- Public Works will have a California Air Resources Board (CARB)-certified Visible Emission Evaluation person on site weekly.
- All trucks will be registered with CARB utilizing the Truck Regulation Upload Compliance and Reporting System (TRUCRS). Contractors shall provide a copy of the CARB Executive Order for all engine models.

Devil's Gate Reservoir Restoration Project - Hauling Process

A Responsible Approach to Sediment Removal

devilsgateproject.com

devilsgateproject@dpw.lacounty.gov

Hotline (626) 458-2507



Reducing Impacts with Hauling and Construction Requirements (Cont.)

Construction Equipment: Similar to the hauling equipment, Public Works is requiring the use of construction equipment that meets or exceeds EPA emission standards for Tier 3 equipment. The contractors' construction equipment shall meet or exceed the following requirements:

- All equipment must be registered with CARB utilizing the Diesel Off-Road Online Reporting System (DOORS). Registration through DOORS ensures that the construction equipment meets, at a minimum, Tier 3 emission standards. Contractors shall provide a copy of their CARB Executive Order for their engine models.
- Public works will ensure 75% of the equipment to be used on the Project is Tier 4 and will strive to exceed the percentage when possible.

Idling Restrictions:

- Public Works will ensure compliance with all state idling regulations.
- Public Works is prohibiting contractors from staging or queuing haul trucks and construction equipment on local streets.
- All staging and queuing when waiting to be loaded must be done within the reservoir.
- No idling will occur within 100 feet from any residential area or schools.

Contractors will submit **NOx and PM₁₀ Reduction Plans** and monthly updates that include:

- Comprehensive inventory of all construction equipment, haul trucks, street sweepers, generators and all other owned, and leased equipment/vehicles, including those of subcontractors, suppliers, and brokers.
- Certification documents, Executive Orders issued from CARB identifying the tier rating, horsepower rating, engine production year, and emissions data for all construction equipment and haul trucks.

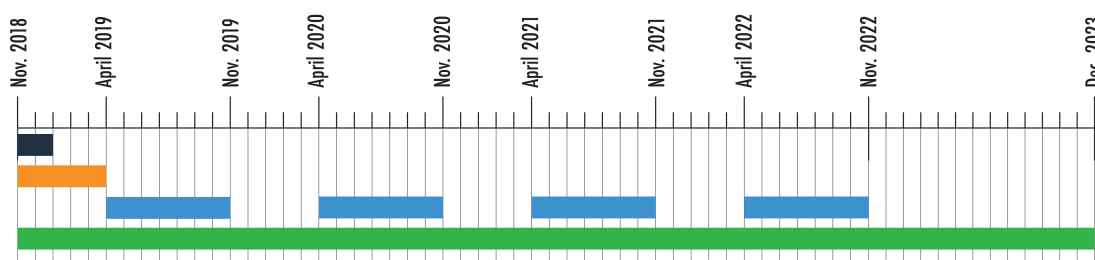
Best Management Practices for Air Quality: Public Works is implementing Best Management Practices (BMPs) within and surrounding the project site to minimize impacts to air quality and dirt tracking in compliance with South Coast Air Quality Management District (SCAQMD) Rules. These include:

- Contractors will be required to have water trucks on site to water sediment and minimize fugitive dust.
- Signage will be posted with contact information for the Contractor, County, and SCAQMD so that the public can immediately notify these agencies of any fugitive dust.
- Tracking Control Devices installed at the access road exits for trucks to remove any dirt that may be left on their tires.
- Street sweepers will regularly clean the haul routes surrounding the project site (including all routes from/to the project site and the freeway) to ensure the haul routes are free of sediment from the haul trucks. Street Sweeper will meet SCAQMD Rules.
- Public Works is exploring opportunities and testing the newest model trucks and vehicles as they become available for the project.

*Public Works will post truck compliance information on the project website, www.devilsgateproject.com



Timeline



- Vegetation Removal - completed
November 2018 – January 2019
- Access Road Construction
November 2018 – April 2019
- Sediment Removal
April – November, 2019 - 2022
- On-site Habitat Restoration – Planting
November 2018 – December 2023