

Devil's Gate Reservoir Restoration Project



Public Works
LOS ANGELES COUNTY





Dust Control at Devil's Gate Reservoir

3 Independent Dust Sources:

1. Dust Control Inside Reservoir
 - Watering at excavation operations
2. Dust from Tops of Loaded Trucks
 - Maintaining proper freeboard
 - Watering tops of loads
 - Tarping Pilot Program
3. Dust on Local Streets
 - Tire wash
 - Street sweeping



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Dust Control Measures Inside Reservoir

- Air Quality Consultant (Tetra Tech) collecting hourly air monitoring readings for dust.
- If there is a high reading, operations are modified to prevent reoccurrence.
- Fugitive dust inside the reservoir has not been an issue and has been controlled with adequate watering.





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Dust from Tops of Trucks

- CA Vehicle Code requires at least 6 in. of air space (freeboard) at the top of each load.
- Dedicated monitor onsite checking all trucks for proper freeboard.



Maintaining Proper Freeboard



Dust from Tops of Trucks

- All loaded trucks are watered before leaving the reservoir.
- Watering the top of each load and maintaining proper freeboard significantly reduces the potential for dust to blow off the tops of loaded trucks.



Watering tops of loads



Dust from Tops of Trucks

- Tarping haul trucks was evaluated as a measure to control dust blowing off the tops of the loaded trucks while approaching freeway speeds.
 - Tarping unrelated to Public Works' effort to control dust on local haul routes.
- Public Works initiated a tarping pilot program on 8/19/19, and monitored trucks for 10 haul days (concluded on 9/4/19).
 - 280+ hours of observation by Public Works
 - 629 truck trips observed
- Public Works monitored trucks traveling along the haul routes and kept a log of trucks with and without tarps and documented conditions.
 - No dust observed blowing off the tops of trucks on local streets
 - No rocks observed falling out of the back of trucks
 - Video taken of observations
- Results indicate that the tarped trucks show no appreciable difference in the occurrence of dust coming from the tops of trucks.



Dust from Tops of Trucks

Dust Level	% of Tarped Trucks	% of Non-Tarped Trucks	% of All Trucks
0	79%	78%	78%
1	13%	9%	11%
2	6%	12%	10%
3	2%	1%	1%

Dust Level Rating Scale:

- (0)-No dust
- (1)-No Visible but audible dust on windshield
- (2)-Light airborne dust
- (3)-Significant, heavy airborne dust



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Dust on Local Streets

- The dust the community is experiencing on the local streets is due to the track-out and dust from the tires, not the lack of tarps.
- Public Works is continuing to add and adjust measures to significantly reduce tracking from the tires.



Tire wash at Devil's Gate Reservoir exit



Dust on Local Streets

- Once the tracking problem with the tires is solved, there should be a vast improvement in dust.
- Public Works is confident that tarping will not be required.





Talk to Us

Questions?

For More Information:

Subscribe to our e-mail list to receive updates on the project.



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