
Subject: T3-2022-16220 Bull Run Filtration Projects

Dust Management Supplemental Information

Prepared by Roy R. Martinez, Portland Water Bureau

The Portland Water Bureau uses industry-standard dust suppression methods at construction projects, such as limiting vehicle speeds, establishing temporary gravel roads, using water trucks during the dry season and as needed, covering or watering stockpile areas as needed, minimizing drop heights and transfer points when loading, and using wheel washes and construction entrances for trucks exiting the work site. Other methods are identified in Exhibit H.3 Attachment 8. These methods are industry standards because they have proven effective for dust suppression at construction sites.

Similar practices are planned during construction of the filtration facility to manage dust during the dry seasons. For example, the onsite roads used during construction will be compacted gravel, and in some instances, such as the site entrance, may have paved sections to further reduce the possibility of dust. Other dust suppression methods identified in Exhibit H.3 Attachment 8 such as water trucks will be used as needed based on conditions (for example, varying water truck frequency based on heat and wind).

Examples of Dust Suppression

The photos below show examples of effective dust suppression methods in action during recent construction of the Water Bureau's Washington Park Reservoir Improvements project.



Figure 1. Example of water truck pass to provide dust suppression on gravel construction roads.



Figure 2. Example of temporary gravel roads used for onsite construction vehicle traffic. Gravel roads produce less dust than dirt roads.



Figure 3. Example of temporary gravel roads and larger construction entrance rock used for onsite construction vehicle traffic. Gravel roads produce less dust than dirt roads.



Figure 4. Example of water truck pass to provide dust suppression on gravel construction roads.



Figure 5. Example of water truck pass to provide dust suppression on gravel construction roads.



Figure 6. Example of water truck pass to provide dust suppression on gravel construction roads.



Figure 7. Example of stockpile loading practices to reduce dust.



Figure 8. Example of construction truck using a wheel wash before leaving the site.



Figure 9. Example of wheel wash for construction vehicles leaving the site.

ATTACHMENT

Roy R. Martinez

Portland Water Bureau

Construction Engineering Inspection Manager

Roy R. Martinez is the Construction Engineering Inspection Manager for the Portland Water Bureau. Roy has been with the Water Bureau for more than 32 years providing inspection oversight and building projects that have City of Portland Title 10 and State erosion control requirements. He is a Certified Inspection Sediment and Erosion Control (Certification 1652) in the State of Oregon.

Roy has experience on multiple Water Bureau projects involving erosion control measures to meet Oregon Department of Environmental Quality (DEQ) 1200-C Permit and City of Portland Title 10 requirements. He worked on the Powell Butte Reservoir Project which had Erosion Control DEQ 1200-C Requirements. For the Powell Butte Reservoir Project, methods included dust control through placing gravel, using water trucks, and identifying haul roads required to have gravel road bases. Roy also worked on the Washington Park Reservoir Project currently under construction which has DEQ 1200-C Permit and Portland Title 10 requirements. For the Washington Park Reservoir Project, he has reviewed erosion control plans, methods, and means submitted by the contractor, and provided weekly or daily inspection of erosion control measures protecting inlets.

Between 1985 and 1990, Roy worked on Oregon Department of Transportation construction projects that were federally funded and had extensive dust control requirements.



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 <p>Ecopliant Environmental, Inc. Board of Directors certifies that Roy R. Martinez</p> <p><i>has demonstrated satisfactory evidence of sediment and erosion control inspection skills and successfully passed the certification examination and therefore, as required by Ecopliant Environmental, Inc. is authorized to use the title of</i></p> <p>Certified Inspector of Sediment and Erosion Control</p> <p>1652  June 30, 2024</p> <table border="1"> <tr> <td>CISEC #</td> <td>Ecopliant Environmental</td> <td>Expire Date</td> </tr> <tr> <td></td> <td>President</td> <td></td> </tr> </table>	CISEC #	Ecopliant Environmental	Expire Date		President		<p>As a CISEC Registrant, I agree to the following:</p> <ul style="list-style-type: none"> At all times, strictly abide by the Ecopliant CISEC Code of Ethics, Perform all services in a professional manner and uphold professional standards in relating to the public, to other Ecopliant CISEC registrants and to other professionals within the industry, Earn at least 12 PDH's each year after becoming a CISEC registrant, and Pay the annual renewal fees.  <p>Ecopliant Environmental P.O. Box 188 Parker, CO 80134 720-235-2783 www.ecopliant.org</p> <p> Signature (required)</p>
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