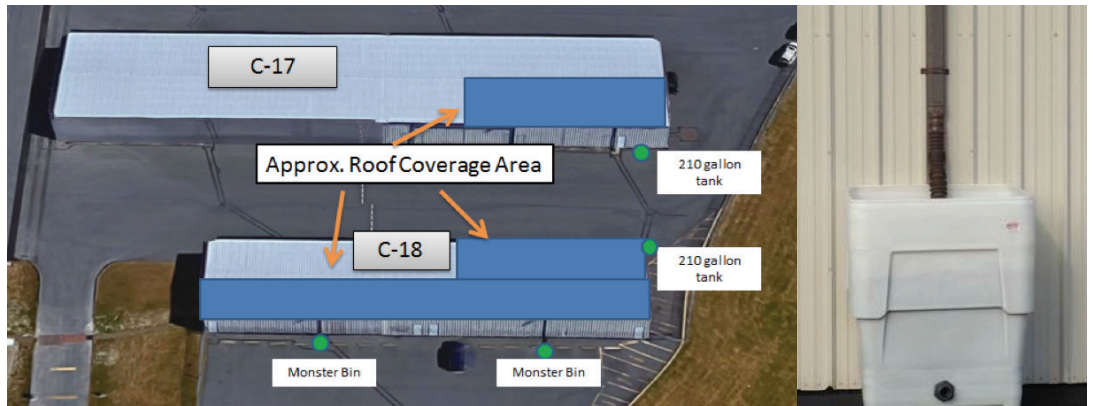


Paine Field Stormwater Zinc Pilot Project



CONTACT:
Andrew Rardin
425-388-3115
andrew.rardin@snoco.org

Snohomish County's Paine Field Airport is an approximately 1,250 acre site located in south Snohomish County. Airport staff regularly monitor the water quality of stormwater runoff to ensure compliance with federal and state water quality standards. When routine water quality testing revealed elevated levels of zinc in 2013, Airport Staff worked with their consultant, Landau Associates, for well over a year to identify the source of zinc. Once the source was identified as zinc leaching from galvanized metal roofs, County staff partnered with the East Condo Association on a Pilot Project to install zinc removal treatment bins for the airplane hangar roofs. The treatment bins use a mix of compost, sand, and oyster shells to absorb and treat the zinc. Treatment specifications were developed by the consultant team based on roof area, and Paine Field's Maintenance Department built and installed the treatment bins in early December 2015. Water quality testing in 2016 at the pilot location revealed that 99% of the zinc was removed through the treatment bins, effectively treating 160,000 gallons of stormwater in 2016. The next step in this Pilot project is to monitor the effluent in 2017 to see how often the media in the bins needs to be changed, and then expand treatment to other areas as needed.

