

Tenant and employee stormwater training video narrative.

What is stormwater? Stormwater originates as rain and snow that melts and flows into our storm drains and to our water sources. As you can see from this map, all water flowing from Centennial Airport goes into windmill creek, lone tree creek and cottonwood creek, and eventually ends up in the Cherry Creek reservoir. Stormwater is untreated and picks up anything it touches, like trash, chemicals, oils and sediment along the way. That is why it is so important that the activities conducted on the airport are not contaminating this water.

Let's start with a little history. The clean water act created in 1972, amended in 1987, established the laws for developing regulation regarding stormwater runoff from municipalities, construction sites and industrial sites. These regulations are enforced through the National Pollutant Discharge Eliminations System permit program. The state of Colorado has been task delegated by the EPA with administering its own permit system for compliance with the NPDES permit program requirements. The result is the state of Colorado discharge permit system which is administered by CDPHE through the Colorado water quality act.

Because of the following waste generating activities conducted on the airport, the State requires the airport to have a general industrial stormwater permit that allows us to discharge stormwater, but with requirements. These waste generating activities include:

- Aircraft and vehicle washing
- Construction
- Vehicle maintenance
- Fueling operations
- Aircraft mx and repair work
- Oil recycling
- Lavatory services
- Deicing
- Grounds keeping
- Snow removal

The main requirements set forth within the permit are effluent limitations, monitoring, inspection, reporting and having a state approved storm water management plan (SWMP) The airport has the responsibility to ensure all tenants are in compliance with this permit, but we cant be everywhere at once which is why we need your help in assisting the airport keep pollution out of stormwater

So let's talk a little bit about Centennial Airport's Storm water management plan or SWMP

The SWMP is administered by assistant airport director and Director of planning and development with assistance from the rest of the planning department. The SWMP describes where the waste generating activities take place on the airport and associated impacted outfalls, quantities of materials, BMPs, and the sampling, inspection and documentation requirements of the permit.

The best way to prevent contaminated stormwater is by good housekeeping and Best Management Practices.

Lets go over the BMPs within Centennial Airport's SWMP. BMPs help prevent pollution by controlling it at its source

1. Aircraft deicing
 - a. Record quantities of all materials used to be submitted to ACPAA on a monthly basis
 - b. Apply only enough fluid to surfaces to ensure safe operation
 - c. Properly store and handle all deicing materials
 - d. Perform training of all employees
 - e. Deice only in designated areas
 - f. ACPAA in the process of implementing ways to mitigate de-icing runoff

2. Aircraft, vehicle and equipment refueling
 - a. Monthly fuel farm inspections are required to have on hand for ACPAA review anytime.
 - b. Valves and hoses on fuel trucks should be periodically inspected
 - c. Fuel trucks must have automatic shut off mechanisms
 - d. Equipped with spill response kits

3. Aircraft, vehicle and equipment maintenance and painting purpose
 - a. Weighted drip pans are required for maintenance taking place outdoors
 - b. All wastes (cans rags and filters) shall be disposed of according to State and local regulations
 - c. Lids on storage tanks shall be securely fastened and stored in covered, secondary containment
 - d. Used oils shall be recycled.

4. Aircraft, vehicle and equipment washing, steam cleaning and degreasing
 - a. Aircraft shall be washed indoors where floor drains are connected to the sanitary sewer.
 - b. Only biodegradable phosphate free detergents shall be used for aircraft washing.
 - c. Use dry washing if floor drains connected to the sanitary sewer are not applicable.

5. Chemical and petroleum storage and handling
 - a. Store materials in designated areas with secondary containment and conducting regular inspections of storage areas, tanks and containers
 - b. Maintain legible labels on all containers and tanks

6. Spills Management
 - a. Develop a spill prevention plan to contain accidental and continuous releases of petroleum or hazardous substances.
 - b. Provide appropriate training for all employees on where to locate spill kits and how to properly clean up a spill
 - c. Notify airport operations immediately following a spill 303-877-7303
 - d. NEVER HOSE DOWN A SPILL

7. Lavatory service operations
 - a. Drain the aircraft connecting hose as completely as possible into the storage tank after servicing an aircraft
 - b. Properly secure all hoses, valves and equipment when transporting waste to eliminate leakage and spills
 - c. Use only surfactants and disinfectants approved for discharge to the sanitary sewer system

- d. Utilize buckets or pans to capture drippage from aircraft lavatory access fittings.
- 8. Outdoor handling of material
 - a. Avoid transferring materials in close proximity to storm drain inlets
 - b. Use drip pans under hoses.
 - c. Contain and absorb leaks during transfers and spillage from hose disconnections; dispose of residue properly
- 9. Outdoor material and equipment storage
 - a. Store drums and containers in secondary containment and out of reach of stormwater
 - b. Use drum lids to prevent rainfall from washing materials and drippage from the top of containers to the storm drain system
 - c. Discharge collected stormwater from secondary containment areas according to guidelines developed by the federal government
 - d. Store all materials in their original containers or approved containers.
 - e. Properly label all containers
- 10. Waste Management
 - a. Reduce, reuse, recycle, dispose.
 - b. Cover trash dumpsters to protect material from rainfall and wind dispersal
- 11. Fire Fighting Foam Discharge
 - a. Follow spill notification and reporting procedures from BMP spills management
 - b. Follow your contingency plan for spill containment
- 12. Stormwater Pollution Prevention Education
 - a. Adequately train employees in the use of spill response equipment and materials
- 13. Stormwater facility maintenance
 - a. Airport conducts visual inspections of all stormwater management facilities monthly during the deice season (October-April) and quarterly the remainder of the year.
 - b. Coordinate quarterly inspections with SEMSWA and notify them of any maintenance, sediment removal and structure repairs needed.
- 14. Runway and Taxiway deicing
 - a. Perform training for all personnel involved with deicing operations
 - b. Apply only enough solid and fluid deicers to surfaces to ensure the safety of the runway/taxiway
 - c. Record quantities of all deicing material used daily or by storm event
- 15. Management of Herbicides and pesticides
 - a. Train personnel with PPE recommendations, first aid, application procedures, spill response and chemical storage
 - b. Pesticide and herbicide material safety data sheets and product information must be made available at the facility to all employees that utilize the chemicals
 - c. Maintain adequate supplies of spill response equipment and materials in locations where spills may be likely to occur
 - d. Seek less harmful/toxic pesticides and fertilizers to replace ones currently in use

Let's review how to keep pollution out of stormwater

There are a few non stormwater discharges authorized by Centennial Airport's industrial stormwater permit. These include

- Emergency firefighting activities
- uncontaminated compressor condensate
- irrigation drainage
- lawn watering
- air conditioner condensate
- foundation or footing drain where flows are not contaminated

Other than these exceptions, anything other than rainwater or snowmelt going down the storm drain is considered an illicit discharge and must be responded to as such.

Remember, report any spill to airport operations and/or south metro fire if hazardous as soon as possible.

Thank you for watching Centennial Airport's stormwater training and remember we can't do this without YOU!

Any additional questions, please contact Centennial Airport's Planning Department