

Stormwater Pollution Prevention Training Naval Air Station (NAS) Jacksonville



POCs:

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Stormwater – A Different Type of Sewer



There are two very different “sewer” systems at NAS Jacksonville

A **SANITARY** sewer system that flows to a wastewater treatment plant in a series of processes to remove contaminants and disinfect the discharge (*though we still need to be careful as to what we put into the sanitary sewer!*).



A **STORM** sewer system in which the flow receives little to no treatment prior to flowing into the river. Storm sewer lines are typically comprised of metal or concrete culverts and pipes, concrete or grass lined ditches, and catch basins (inlets).

Stormwater – A Different Type of Sewer



What is stormwater runoff?

Stormwater runoff occurs when precipitation from rain flows over the ground. Impervious surfaces like driveways, sidewalks, piers, flight lines, and streets prevent stormwater runoff from naturally soaking into the ground.

Why can stormwater runoff be a problem?

Because of the nature of stormwater system designs, our personal practices will have a significant effect on water quality in receiving surface rivers, streams, and eventually the ocean. Whatever you drip, drop, pour, sweep or blow into storm drains or even just onto streets, piers and parking lots will most likely ultimately end up in the river.



Stormwater – A Different Type of Sewer



Impacts of Stormwater Pollutants

- **Human Health:** Stormwater pollution is linked to chronic and acute illnesses from exposure to chemicals and bacteria through drinking water, seafood, and contact recreation.
- **Fish and Wildlife:** Aquatic organisms are directly poisoned by pollutants or can have reduced reproduction, smaller sizes, or genetic damage. Damage to vegetation from pollutants in stormwater also degrades wildlife habitat by destroying food resources, shelter, and breeding or nesting sites.
- **Economic**
 - Tourism: Beaches contaminated by stormwater runoff means fewer beachgoers and less economic activity.
 - Fishing: Aquatic species and habitats poisoned and suffocated by stormwater runoff results in losses of income for the commercial fish and shellfish industries and higher prices for consumers. Poor quality fishing also leads to economic losses for the recreational fishing industry.



How Do You Know If It Is a “Storm Drain”?



Is it in a parking lot, a roadway, or otherwise outside? Then it's most likely a storm drain!

Things That Can't Go Down a Storm Drain

1. Petroleum products (oil, hydraulic fluid, JP5, etc...)
2. Cleaning compounds, soap, or detergent
3. Mop water
4. Paint or paint chips
5. Floor or deck sweepings
6. Cardboard, Styrofoam, and other product packaging
7. Metal shavings
8. Trash
9. Cigarette butts
10. CHT/Sewage
11. Bilge water
12. Pet waste
13. Sediment
14. Etc...

ANYTHING THAT ISN'T STORMWATER OR DRINKING WATER