

NPDES Stormwater Training

Compliance Assistance Program - Stormwater Inspections



**Compliance Assistance Program
Employee Training**

Spring 2009

Prepared For
**Riverside County Flood Control and
Water Conservation District**

Presented By
AEI-CASC

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Why are we here?

- ❖ To comply with Municipal Permit requirements for training
- ❖ To comply with National Pollution Discharge Elimination System (NPDES) program requirements
- ❖ To review inspection requirements
- ❖ To identify imminent threats to water quality



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Introductions

- ❖ Your Instructor
 - ❖ AEI-CASC Consulting
 - ❖ 10,000 + Inspections
 - ❖ 15,000 + Trained
 - ❖ Extensive Resume of Municipal Services
 - ❖ Rebekah Guill, Environmental Analyst
- ❖ You
 - ❖ County Staff
 - ❖ CAP Program Staff
 - ❖ Stormwater Program Staff
 - ❖ Others (Non-county Staff)
 - ❖ What area do you serve?



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Training Process

- ❖ Goal – To complete the session within 2 hours
 - ❖ Sticking to the process will help accomplish this goal!
- ❖ Restrooms
 - ❖ You do not need to ask to be excused.
- ❖ Cell phones
 - ❖ Please turn them off or set to silent.
- ❖ A mid-session break is planned
- ❖ Questions
 - ❖ We have a great amount of information to cover.
 - ❖ Please ask questions related to the content.
 - ❖ "Out-of-scope" questions will be deferred.
 - ❖ I will be available after the session if you have additional questions.

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Course Outline

- ❖ Part 1
 - ❖ General Introduction to the Compliance Assistance Program
- ❖ Part 2
 - ❖ Hazardous Waste/ Hazardous Materials Facility Survey
- ❖ Part 3
 - ❖ Food Facility Stormwater Compliance Survey



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Part 1

General Introduction to the Compliance Assistance Program

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What is your role in water quality?

- ❖ Inspector/Surveyor for the Stormwater Pollution Prevention Program
- ❖ Public Educator





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Stormwater

What is stormwater?


- ❖ Water from precipitation events
 - ❖ Rain
 - ❖ Snowmelt



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Where does it go?

- ❖ Stormwater flows into surface waterways
- ❖ Channeled to storm drains
- ❖ Ultimately discharges to river, lake, or ocean



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What is an illegal discharge?



- ❖ Disposal, either intentional or unintentional, of material or waste to land or storm drain that can pollute storm water or create a nuisance.
- ❖ Any discharge to the storm drain that is not entirely made up of storm water.
- ❖ Except discharges pursuant to NPDES Permit.

❖ The General Rule: **"Only Rain in the Drain"**

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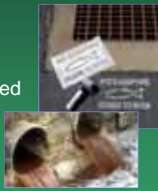
Non-stormwater

What is non-stormwater?

- ❖ Non-Stormwater Discharge means all discharge to and from a stormwater system that do not originate from precipitation events and are not composed entirely of stormwater.

Categories

- ❖ Non-permissible – Illegal Discharges
- ❖ Permissible - NPDES permitted and/ or authorized by NPDES MS4 Permits.



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Which permissible non-stormwater discharges will I see?

- ❖ NPDES permitted discharges
- ❖ Potable waterline flushing and other potable water sources
- ❖ Landscape irrigation runoff and other irrigation runoff
- ❖ Atmospheric Condensates
- ❖ Passive foundation drains
- ❖ Passive footing drains
- ❖ Water from crawl space pumps
- ❖ Potable waterline flushing and other potable water sources
- ❖ Vehicle washing associated with fundraisers by non-profit organizations (**SAR and WWR Permits**)
- ❖ Dechlorinated swimming pool discharges

Requirements will vary based on NPDES Permit



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Other conditionally permissible discharges

- ❖ Street washing (**WWR Permit**)
- ❖ Diverted stream flows
- ❖ Rising groundwater and natural springs
- ❖ Groundwater infiltration and uncontaminated pumped groundwater
- ❖ Flows from riparian habitats and wetlands
- ❖ Emergency water flows
- ❖ Waters not otherwise containing wastes (**SAR and WWR Permits**)
- ❖ Non-emergency fire fighting flows (**SMR Permit**)
- ❖ Discharges identified by Permittees and approved by the RWQCB

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What are the general pollutants of concern?

- ❖ **Sedimentation**
 - ❖ Turbidity -cloudiness due to suspended solids
- ❖ **Nutrients**
 - ❖ Oxygen depletion
- ❖ **Pathogens**
 - ❖ Waterborne bacteria, viruses, and protozoa that can cause human illnesses
- ❖ **Pesticides (Toxicity)**
 - ❖ Chemicals that adversely affect biota
 - ❖ Examples: DDT, DDE, alachlor, malathion, diazinon, chlordane, and carbofuran.
 - ❖ Pyrethroids are a new culprit that have been noted as a high risk for causing creek impairments by sediment toxicity and bioaccumulation

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Why should I care about pollutants of concern?



- ❖ During storm events these pollutants are dissolved and suspended in runoff water.
- ❖ Runoff water carries the pollutants of concern through the storm drain system to the receiving waters.
- ❖ Pollutant loading may lead to impairment of the receiving water.

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Assessing Imminent Threats to Water Quality

Prioritize the threat!


- ❖ Active illegal discharge of pollutants to storm drain or to receiving water currently underway
 - ❖ Illegal disposal of wastewater to the storm drain
 - ❖ Hazardous materials discharging off-site
- ❖ Immediate potential for discharge of pollutants to storm drain or to receiving water
 - ❖ Spills into conveyance system



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Other types of threats to consider

- ❖ Evidence of past discharge of pollutants to storm drain or to receiving water
 - ❖ Surface stains
- ❖ Future potential for discharge to storm drain or to receiving water if not mitigated
 - ❖ Unprotected storm drains
 - ❖ Unprotected material storage



When will it rain again?

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Who should be notified?

- ❖ Local NPDES Coordinator
 - ❖ Code Enforcement
- ❖ Refer to the list of contact information on the back of the inspection form
- ❖ For Questions:
 - ❖ Mr. Jeff Lojeski
 - ❖ Dept. Environmental Health



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