Existing Development Program

Module B-9.IV

Audience: Landscape Maintenance Business Owners/Managers Time: +/- 45 minutes

Landscape Maintenance Businesses

Name Affiliation Location Date

Training Outline

Introductio

- Introduction water quality issues
- Municipal permits
- Existing Development Program -Commercial
- BMP Fact Sheets
- Inspections & Enforcement
- Conclusions
- Resources



Water Resources are Crucial to Orange County



Water provides recreation for Orange County residents.

It attracts tourists, boosting the local economy.



It is home to many types of wildlife.

Potential Impacts



 Urban runoff and stormwater pollution can impact the ocean, beaches and creeks, harming wildlife and impairing peoples' ability to enjoy the water.

Introduction

Introduction

Sources of Pollution Homes Businesses Construction sites

Introduction

Municipal facilities

Path of Pollutants

- Potential pollutants may run off driveways, streets and gutters into stormdrains.
- The stormdrains lead to creeks and rivers, where pollutants can flow untreated into the ocean.



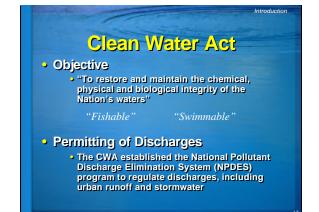
It's Everyone's Responsibility

 Urban runoff and stormwater pollution is not just a coastal issue-it starts in all regions of the community and affects water quality from the mountains to the ocean.

It's Your Responsibility

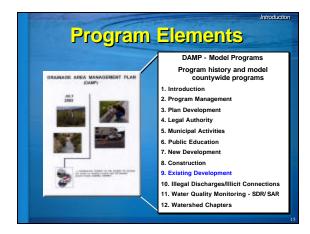
- Everyone must help to reduce urban runoff and stormwater pollution.
- This training will help explain what you can do while conducting your day to day business to meet your requirements under the Orange County Stormwater Program.



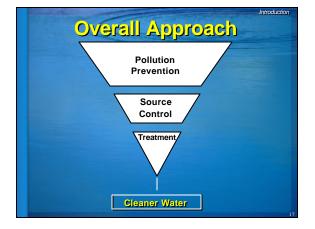




Municipal Permits **Display Service S**







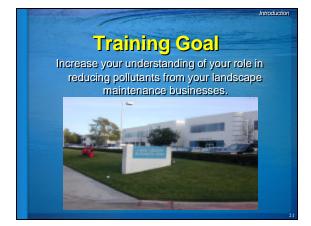




Commercial Program (Partial)

- Landscaping and Installations
- Automobile Mechanical Repair, Maintenance, Fueling & Cleaning
- Automobile Body Repair
- Mobile Carpet, Drape, & Furniture Cleaning
- Pest Control Services
- Eating Establishments

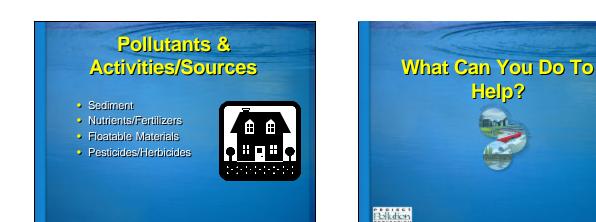




Landscaping Activities That May Generate Pollutants

- Installing New Landscapes
- Maintaining Existing Landscapes
- Using Pesticides, Herbicides, Fertilizers
- Using Gas Equipment
- Working Near Waterbodies





Introduction

Best Management Practice (BMP)

Best practical and economically achievable measures to control the addition of pollutants to the waters of the United States through the application of pollution control practices, technologies, processes, siting criteria, operating methods, or other alternatives.

"Rules of Thumb"

- Non-Stormwater Discharges
 - Is water used in relation to the activity?
 - Is the waste contained and disposed of properly?
 - Does it have the potential to run offsite

Stormwater Discharges

 Does rainwater have the potential to come into contact with the activity and carry pollutants offsite?

Fact Sheet Information

- Pollution Prevention
- Best Management
- Practices
- Training
- References

BMP Fact Sheets

HOA - Program Implementation

 Fact sheets have been developed to provide more detailed guidance on how you can help by implementing Best Management Practices (BMPs)

- IC 7 Landscape Maintenance - IC 17 Spill Prevention and Cleanup

Pollution Prevention

- Properly store and label materials
- Reduce Exposure
- Reduce use of water
- Recycle & Reuse
- Use Alternative, Safer Products



IC 7 - Reduce Landscape Maintenance Requirements

- Retain or plant native vegetation
- Use low water use flowers, trees, shrubs, etc.
- Consider alternative landscaping techniques
 - Naturescaping
 - Xeriscaping

IC 7 - Properly Store and Dispose of Gardening Wastes

- Dispose of vegetation as garbage
- Do not dispose of wastes in streets, waterways, etc.
- Place temporary stockpiles away from storm drains and watercourses



IC 7 - Properly Manage Irrigation

- Irrigate slowly do not exceed soil infiltration rate
- Inspect systems for leaks
- If reclaimed water is used ensure there is no runoff
- When repairing a leak pour muddy water into landscaped areas



IC 7 - Properly Store and Dispose of Chemicals

- Provide secondary containment for chemicals
- Label all containers
- Dispose of empty containers properly
- Triple rinse containers



IC 7 - Properly Manage Pesticide Use

- Follow Guidelines
- Consider Conditions
- Prepare & Apply Carefully
- Use it when you need it
- Prepare what you need
- Minimize off-target application
- Other Options
 - Mix and layer topsoils
 - Use slow release fertilizers

IC 7 - Consider Integrated Pest Management

- Mulching
- Alternatives to Pesticides/Herbicides
 - Hand removal
 - Traps
 - Fencing
- Promote Beneficial Organisms
 - Ladybugs, bats, birds, praying mantis, spiders, etc.





IC 7 - Properly Manage Fertilizer Use

- Follow Guidelines
- Consider Conditions
- Prepare & Apply Carefully
 - Use it when you need it
 - Prepare what you need
 - Minimize off-target application
- Other Options
 - Mix and layer topsoils
 - Use slow release fertilizers

IC 17 – Spill Prevention and Clean Up

- Develop procedures
- Spill Prevention
- Spill Control and Clean Up Activities
- Reporting
- Train employees



• Train Employees

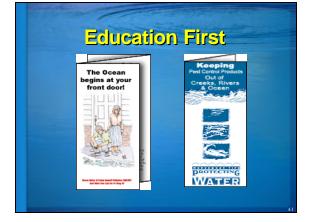
- Provide tools and knowledge
- Educate about spill prevention and clean up
- Initial training and refresher training
- · Work with cities on training opportunities





Inspection

- Inspections Will Commence
- Cooperation Is KEY
 Work together to improve water quality
- Inspection Checklist
- Compliance Inspections
 Evaluating compliance
- Follow-up Inspections
 Reevaluating non-compliance





Enforcement

- Administrative Remedies
 - Notice of non-compliance
 - Administrative compliance order
 - Cease & desist orders
 - Citations
- Criminal Remedies
 - Infractions
 - Misdemeanors







Remember

 Everyone benefits from clean water, and everyone has a responsibility to protect it by reducing urban runoff and stormwater pollution.

THE -

Conclusions

- Cooperative countywide program developed to address stormwater
- Landscaping activities can IMPACT water quality
- Businesses must implement pollution prevention and source control BMPs to:
 - Eliminate non-stormwater discharges
 - Reduce the exposure of pollutants to stormwater
- The County/City will inspect & enforce this program



Sources of Additional Information

- Orange County Best Management Practices (BMP) Fact Sheets California Stormwater Quality Task Force, 2003. Best Management Practice Handbooks – Industrial/Commercial BMP Handbook.
- BASMAA, 1999. Start at the Source Design Guidance Manual for Stormwater Quality Protection.
- California Exotic Pest Plant Council, 1999. Exotic Pest Plant List. (www.caleppc.org)
- Professional Lawn Care Association of America, 1997. Water Quality and Your Lawn. (www.pesp.org/1995/plcaa95-final.htm)

Handouts

- · Hard copy of this presentation
- Orange County Best Management Practices
 (BMP) Fact Sheet:
 - Landscape Maintenance IC7
- Spill Prevention & Cleanup IC17
 Commercial Program Inspection Checklist
- Educational Materials



