



CITY OF COVINA

Annual Stormwater
Pollution Prevention Training
May 29, 2012

W

NAME	DIVISION
Ken Fields	Building Dept.
1. Earl Karch	Street
2. DALE KUNESH	STREET
3. HAI TRAN	EQUIPMENT
4. Steve Rossi	Building Dept
5. JAIME P. MUNOZ	EQUIPMENT
6. Juan Avellaneda	Water Division
7. Tina Leech	water Division
8. OCTAVIO AGUILAR	EQUIP,
9. William Ratty	WATER
10. Dino Dospital	Water
11. Vijay Mevani	Building
12. Chris Clmer	Code
13. FREDDIE LOPEZ	WATER
14. Justin Mills	Water
15. Jorge Gonzalez	Parks
16. Randy Franklin	P&R
17. Frank Cisneros	Parks & Rec
18. RANDY ALVAROZ	P&R P.R.
19. BASEL BADAWI	STREETS
20. Mike Puente	Water
21. BRIAN Aceves	Street
22. Chris Sawan	Street
23. ANTHONY CORDOVA	STREET
JAIME P MUNOZ	EQUIPMENT
BOB HOGAN	EQUIPMENT
WILLIE BRIZUELA	STREET

J C POPEZ

FRANK NG

PUBLIC WORKS

" "

CARLOS ESCOBAR

10/10/10

Stormwater Pollution Prevention

Training for City Field Staff

May 30, 2012

What is storm water pollution?



What is storm water pollution?

- As rainwater and other runoff flows across the ground, they pick up harmful contaminants like fertilizers, pesticides and dirt. When the rainwater hits our streets, the water mixes with waste oil and automotive and pet waste and picks up trash.
- Unlike the wastewater we put down our sinks and toilets, stormwater flows to our waterways untreated.
- This contaminates the water and can harm wildlife.

What is storm water pollution?



What is stormwater pollution?



What is stormwater pollution?



What is stormwater pollution?



What is stormwater pollution?



What is stormwater pollution?



What is stormwater pollution?



Where does storm water pollution go?



Where does storm water pollution go?



What creates stormwater pollution?

- Residents
- Commercial and industrial facilities
- Development and redevelopment projects
- Construction sites
- Municipal activities
 - Cities covered under municipal storm water permits
 - Daily operations
 - Periodic activities
 - Preventative maintenance

The NPDES Permit

- NPDES Permit of 2001 covers Los Angeles County, Covina, and 83 other cities in the county
- Allows Covina to discharge storm water into the County storm drain (flood control) system
- Requires positive actions by the City to ensure pollution prevention
- The cost of non-compliance: \$27,500 per day fines

Municipal Permit Programs

- Public Information and Participation
- Illicit Connections and Illicit Discharges Elimination
- Industrial/Commercial Facilities Control
- Development/Redevelopment Planning
- Development Construction
- Public Agency (Municipal) Activities

What can YOU do?

- Watch for illegal connections/ discharges/ dumping.
- Only stormwater goes into storm drains. There are a few exceptions, for instance: lawn watering, air conditioner condensate, dechlorinated swimming pool water (but a permit from Environmental Services is required first), water line flushing, and sidewalk washing.
- Some typical clues of an illegal discharge:
 - **Flowing water when it hasn't rained**
 - Odors, sediment, residue or discoloration in the gutter
 - A concrete truck washing out his chute

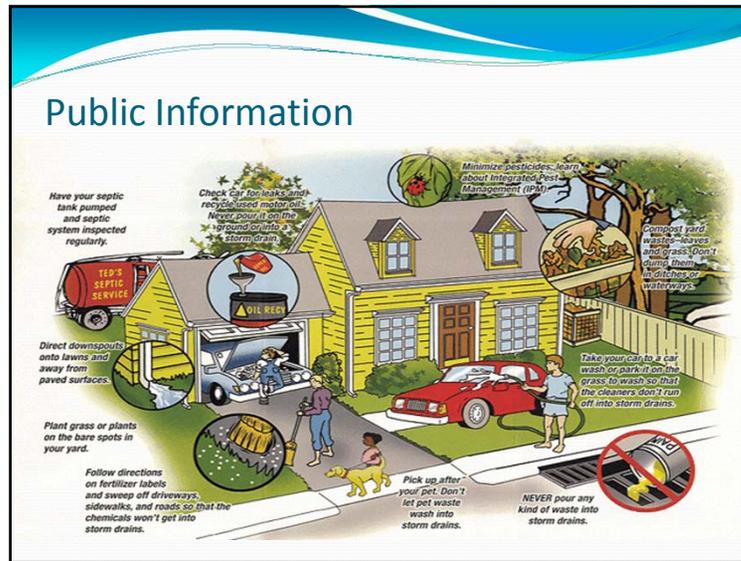
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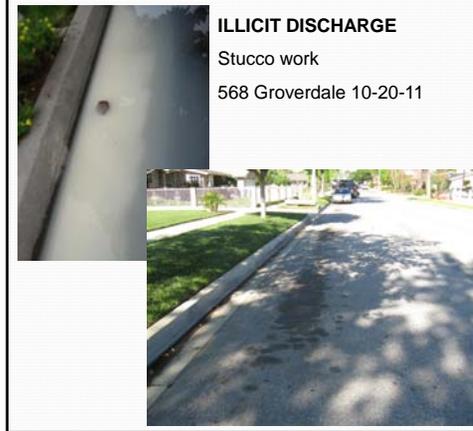
PUBLIC INFORMATION

- City has to inform the public about stormwater pollution
- Potential violators:
 - Residents
 - City businesses
 - Visitors
- Generally “illicit discharges”
- Illicit connections are illegal connections to the storm drain system

Public Information



Illicit Discharges



ILLICIT DISCHARGE

Flyers posted on cars in City lots 11-2010

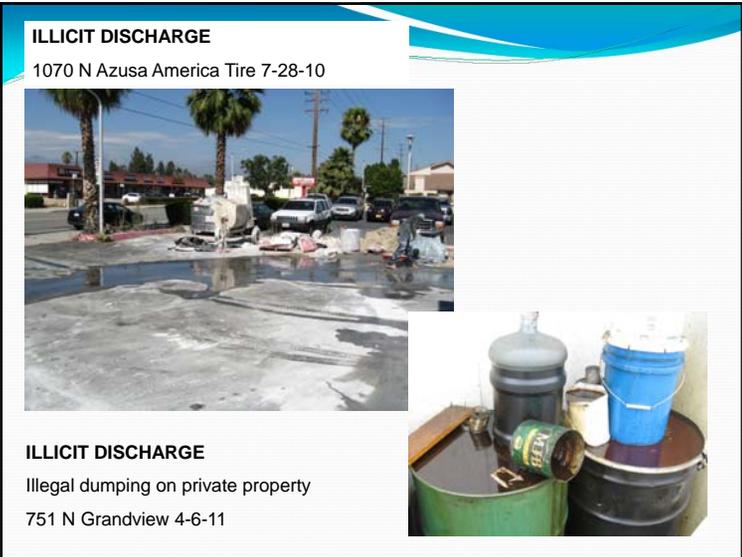


Illicit Discharge (ICID)

Car oil leak
Wingate 4-11-11

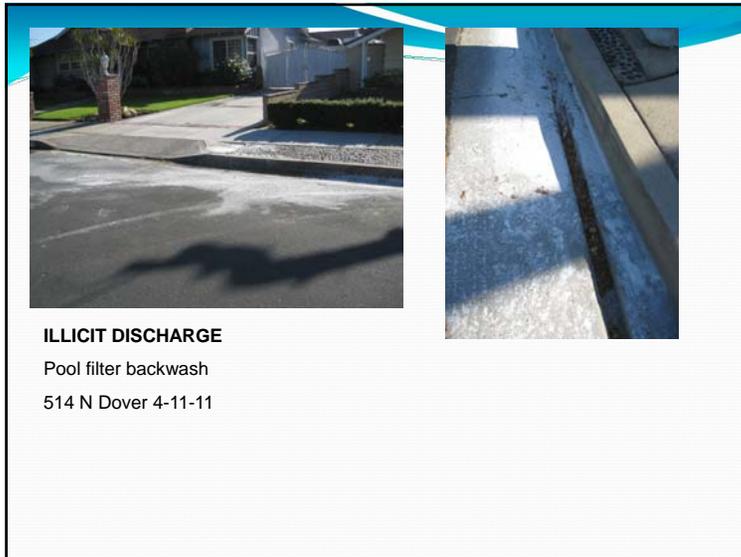


**ILLCIT DISCHARGE &
Pollutants in storm drain**
AMC 8-26-10



ILLCIT DISCHARGE
1070 N Azusa America Tire 7-28-10

ILLCIT DISCHARGE
Illegal dumping on private property
751 N Grandview 4-6-11



ILLCIT DISCHARGE
Pool filter backwash
514 N Dover 4-11-11

Municipal Permit Programs

- Public Information and Participation
- Illicit Connections and Illicit Discharges Elimination
- **Industrial/Commercial Facilities Control**
- Development/Redevelopment Planning
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INDUSTRIAL/COMMERCIAL FACILITIES INSPECTION & ILLICIT DISCHARGE

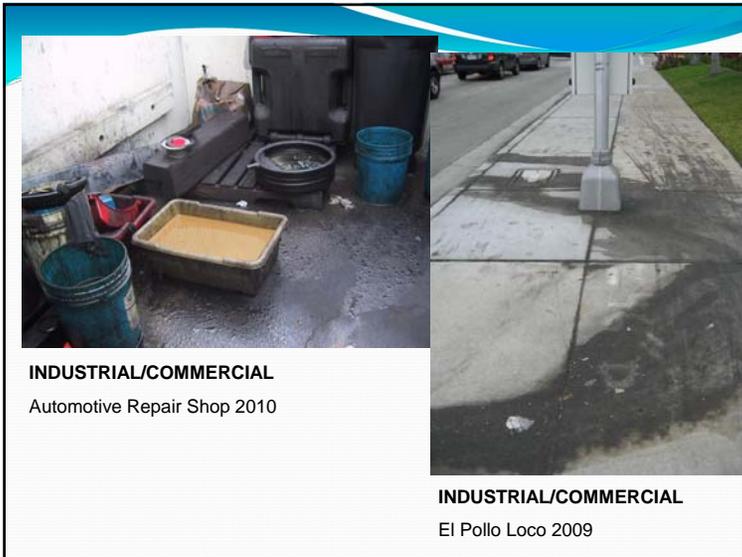
Lapid Foods 525 N Howard



INDUSTRIAL/COMMERCIAL
Restaurant in downtown area

INDUSTRIAL/COMMERCIAL
Platinum Coachworks
7-2010

INDUSTRIAL/COMMERCIAL
Taco Bell 3-10-11



INDUSTRIAL/COMMERCIAL
Automotive Repair Shop 2010

INDUSTRIAL/COMMERCIAL
El Pollo Loco 2009

Municipal Permit Programs

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- **Development/Redevelopment Planning**
- Development Construction
- Public Agency (Municipal) Activities

REDEVELOPMENT PROJECT
Walmart Tenant Improvement
9-20-10

DEVELOPMENT & REDEVELOPMENT
Lowe's 3-10-11

DEVELOPMENT/REDEVELOPMENT
Bank of the West 770 N Citrus

Municipal Permit Programs

- Public Information and Participation
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- Industrial/Commercial Facilities Control
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- **Development Construction**
- Public Agency (Municipal) Activities

CONSTRUCTION
 Vintage Walk
 615 N 3rd
 3-28-11

CONSTRUCTION
 Taco Bell Demo 2010

CONSTRUCTION
 Stopped construction
 1009 N Azusa 9-28-10

Municipal Permit Programs

- Public Information and Participation
- Illicit Connections and Illicit Discharges Elimination
- Industrial/Commercial Facilities Control
- Development/Redevelopment Planning
- Development Construction
- **Public Agency (Municipal) Activities**

Public Agency Requirements (YOU!)

- Sewage Systems Maintenance, Overflow and Spill Prevention
- Public Construction Activities Management
- Vehicle Maintenance/Material Storage Facilities/Corporation Yards Management
- Landscape and Recreational Facilities Management
- Storm Drain Operation and Maintenance
- Streets and Roads Maintenance
- Parking Facilities Management
- Public Industrial Activities Management
- Emergency Procedures

Sewage Systems Maintenance, Overflow and Spill Prevention

- Be familiar with the City's Sewer System Maintenance Plan (SSMP)
- Follow the SSMP's maintenance, prevention and response guidelines
- Report any existing or potential sewer problems to your supervisor
- In the event of a sanitary sewer overflow, note the time and location and report to your supervisor IMMEDIATELY
- Incident supervisor must document (contacts, timeline, photos) all details of the spill (response, containment measures, mitigation activities)
- State law mandates certain SSOs are reported within two hours to specific agencies



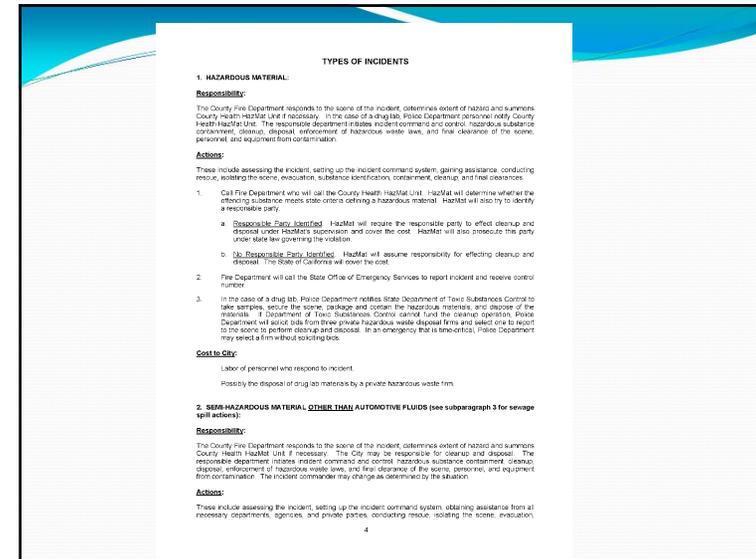
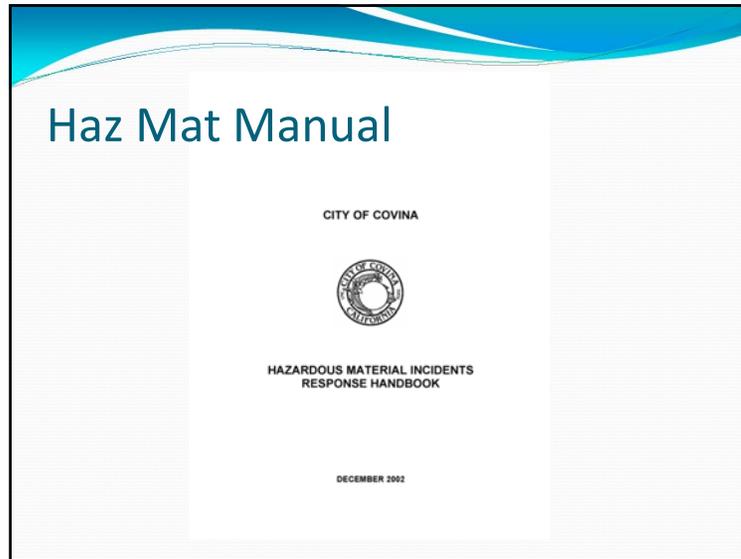
SEWER SYSTEM MANAGEMENT PLAN
For The
City of Covina

Los Angeles County, California

FINAL DRAFT
July 2009

3.4.1 SSO Reporting Procedures Flow Chart

Reference Sheet for Estimating Sewer Spills from Overflowing Sewer Manholes
All estimates are calculated in gallons per minute (gpm)



Make sure that your activities while working don't contribute to pollution

- Paving operations (don't do in wet weather)
- Saw-cutting (contain/vacuum slurry)
- Material storage (don't leave exposed to rain water)
- Disposal of materials (dispose of properly)
- Erosion at work site (don't leave bare soil exposed, use sandbags)
- Littering (don't do it)

Best Management Practices

- A Best Management Practice is defined by the EPA as a technique, measure or structural control that is used for a given set of conditions to manage the quantity and improve the quality of the storm water runoff in a cost effective manner.

Applicable BMPs

- SC-10 Non-Stormwater Discharges
- SC-11 Spill Prevention, Control and Cleanup
- SC-20 Vehicle and Equipment Fueling
- SC-21 Vehicle and Equipment Cleaning
- SC-22 Vehicle and Equipment Repair
- SC-30 Outdoor Loading/Unloading
- SC-31 Outdoor Container Storage
- SC-32 Outdoor Equipment Maintenance
- SC-33 Outdoor Storage of Raw Materials
- SC-34 Waste Handling and Disposal
- SC-41 Building and Grounds Maintenance

BMPs continued

- SC-43 Parking/Storage Area Maintenance
- SC-60 Housekeeping Practices
- SC-61 Safer Alternative Products
- SC-70 Road and Street Maintenance
- SC-71 Plaza and Sidewalk Cleaning
- SC-72 Fountain and Pool Maintenance
- SC-73 Landscape Maintenance
- SC-74 Drainage System Maintenance
- SC-75 Waste Handling and Disposal
- SC-76 Water and Sewer Utility Maintenance

BMP Examples

- SC-41: Building & Grounds Maintenance
 - Contain and collect pressure washing
 - Use chemicals properly (not before rain or watering)
 - Clean paint brushes and tools in sinks connected to the sanitary sewer system
 - Dispose of green waste as compost or in the proper waste bin

Parking/Storage Area Maintenance SC-43



Description
Parking lots and storage areas can contribute a number of substances, such as fuels, suspended solids, hydrocarbons, oil and grease, and heavy metals that can enter receiving waters through stormwater runoff or non-stormwater discharges. The following protocols are intended to prevent or reduce the discharge of pollutants from parking/storage areas and include using good housekeeping practices, following appropriate cleaning BMPs, and training employees.

Approach
Pollution Prevention

- Encourage alternative design and maintenance strategies for impervious parking lots. (See flow Development and Redevelopment BMP Handbook).
- Keep accurate maintenance logs to evaluate BMP implementation.

Suggested Protocols
General

- Keep the parking and storage areas clean and orderly. Remove debris in a timely fashion.
- Allow sheet runoff to flow into bio-filters (vegetated strip and pools) and/or infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low concentrations.

- Objectives**
- Clean
 - Secure
 - Safe
 - Product Substitution

Targeted Constituents	Control
Oil	☐
Grease	☐
Hydrocarbons	☐
Metals	☐
Suspended Solids	☐
Other	☐



January 2012 California Stormwater BMP Handbook 1 of 4
www.casqa.org

PREVENT & CLEAN SPILLS

PREVENTION

- Take the time to use precautions to prevent spills
- Sweep and dry mop frequently to reduce the amount of dirt, fluids, and other residues that accumulate where you work
- Sweep or dry mop whenever possible, especially outside
- Have a spill prevention plan

CLEAN SPILLS THE RIGHT WAY

- Have a spill cleanup plan
- Clean up spills promptly if they do happen
- Clean up without water whenever possible
- Keep absorbents on hand to help clean up spills
- Have rags handy for cleanup

PREVENT & CLEAN SPILLS

Follow spill response guidelines for you agency.

- Stop the Spill at its Source
- Protect Drains and Storm Sewers
- Call your supervisor
- Contact Environmental Services regardless of size
- Spread Absorbent Material
- Dispose of the Spilled Material Appropriately



MATERIALS STORAGE

STORAGE CONTAINERS

- Make sure storage containers are spill-proof; inspect for leaks and perform routine maintenance
- Inspect storage tanks and piping systems for leaks or failures and perform routine maintenance
- Use safeguards (such as berms or secondary containment basins) against accidental releases of liquids from the storage area

- Store materials in appropriate containers

STORE UNDER COVER

- Protect stored materials from rainwater
- Store materials indoors and on pallets, if possible
- Cover materials stored outdoors with sheets or plastic or other types of cover to prevent exposure to rainfall
- Store hazardous materials according to federal, state, and local requirements



MUNICIPAL

Nameless city yard

3-10-11



EQUIPMENT MAINTENANCE

FUELING

- Prevent spills
- Don't "top off"
- Sweep or use other dry methods rather than hose down the fuel area for cleaning or pick up of spills

VEHICLE AND EQUIPMENT MAINTENANCE

- Use drip pans for vehicles and equipment waiting for maintenance
- Park under cover to prevent exposure to rainfall

INVENTORY

- Maintain an organized inventory of materials ... know what you have in the shop or yard
- Label and track recycling of waste materials (e.g., used oil, spent solvents, batteries)

BUILDING & GROUNDS MAINTENANCE

BUILDINGS, PLAZAS, SIDEWALKS, & PARKING LOTS

- Clean up without water whenever possible by sweeping or wiping
- Prevent and clean up spills
- Clean up debris and litter so they do not get washed into storm drains
- Avoid using detergents in steam or pressure washing
- Clean catch basins and storm drains regularly

PROPERTY & GROUNDS MAINTENANCE

- Control soil erosion
- Recycle lawn clippings, trimmings from trees and other landscaping
- Use only the right types and amounts of fertilizer, herbicides, and/or pesticides for your landscaping
- Do not overwater (excess water transports pollutants off your property into the storm drain system)
- Avoid applying fertilizers, pesticides, or herbicides during rainy weather

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