IDDE Education May 14, 2024

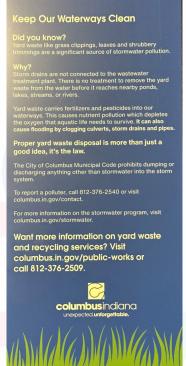


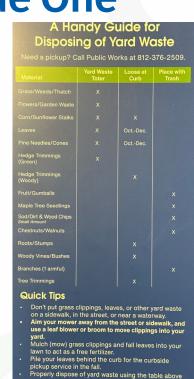
Community Wide Stormwater Quality Issue One

Yard Waste

Partner with Department of Public Works

- Toter/Door Hangers for targeted areas
 - Includes education on how yard waste impacts localized flooding and water quality
 - Includes information on:
 - Yard Waste Pickup Program
 - Leaves
 - Brush Pick-up







Community Wide Stormwater Quality Issue Two

Concrete Washout

- Fact Sheet in Pre-Construction Meeting Packet
- Brochure on concrete washout & saw cutting
 - Distributed to
 - Employees
 - Smaller ROW permits
 - Cost-Share sidewalk program participants

CONCRETE WASHOUT POLLUTION PREVENTION



CONCERN

- It is illegal to drain concrete washout into storm sewers and local water bodies.
- Concrete washout if discharged to storm sewers drains to local waterways. It can clog fish gills.
- Because it has a pH of 12, similar to Drano™, it can increase toxicity of other substances causing more issues for aquatic life.
- It contaminates soil and kills plants.

WHAT CAN YOU DO?

- Washout only in designated areas that are lined to contain the wastes and protect soil.
- Have a back-up plan. Carry a storable, expandable washout container in case one not available on site.







asily stored, expandable lined box.

STREETS TO STREAMS NO TREATMENT IN BETWEEN

n more: www.columbus.in.gov/engineering/stormwater/stormwater-overview Source: Iowa Stormwater Education Partnership

WET SAW CUTTING POLLUTION PREVENTION



CONCERNS

- It is illegal to discharge concrete cuttings into a storm sewer and waterbodies.
- Wet saw cutting waste has the same pollution concerns as concrete washout shown on the other side of this flyer.
- Cutting is often done near storm drains.

WHAT CAN YOU DO?

- Use storm drain protection when working near storm drains and sloped areas.
- Use absorbent gels to contain the liquid waste. Scoop up waste and dispose of properly.
- Use a vac-truck or small vacuum.



na Absorbent



columbus indiana unexpected unforgettable.

mall vacuums and vac-trucks

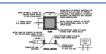
ONLY RAIN... DOWN THE STORM DRAIN

more: www.columbus.in.gov/engineering/stormwater/stormwater-overvi





CONCRETE WASHOUT



low to Maintain Concrete/Cementitious Washout Best Management Practices (BMPs Daily during concrete pouring operations, and after every rain event, inspect concrete washout BMPs. In washout BMPs for signs of deterioration and overall effectiveness.

50 percent of the design capacity.

Properly dispose of all concrete waste material. Reuse the material on site, recycle, or hauf waste material.

. Upon removal of solids, inspect the BMP and repair, enlarge, or construct a new washout: What You Need to Know About Concrete or Cementitious Washouts:

Installation of concrete washout BMPs shall be completed prior to concrete delivery.

Locate concrete washout BMPs a minimum of 50 feet from storm drains, spen distinks, and water bodies.

Soulo washout BMPs with appropriate signage. Ensure all drivers are aware of the location of the BMPs.

is being disposed of improperly, identify the violators and take appropriate action.

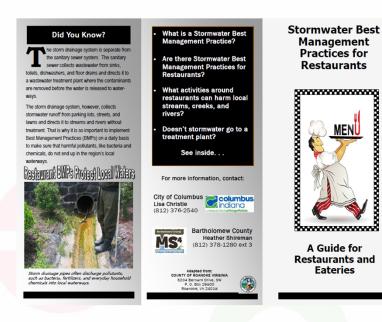
5. Concrete washout or Cementitious washout means the rinsing of chules, pumps, curb and paving mac hoppers, wheelbarrows, hand tools and any other equipment that are used to handle concrete, mortur, is considered to the contract of them children of the concrete washout size in a wasteriest dury containing the contract.



Community Wide Stormwater Quality Issue Three

Restaurant Grease and Oil

- City and County MS4s partnered with the County Health Department to distribute brochure to restaurants annually
- Used brochure as a compliance item
- Employee Training
- Restaurant service companies





Annual Training

Include basic IDDE definition and identification as part of Good Housekeeping & Pollution **Prevention Training**

- What is an illicit discharge? Provide examples of discharges-
 - Tracking from the site
 - Concrete waste/washout
 - Grass/yard waste in the road
 - Pipes into the road
- Distribute IDDE Tip Card

Sanitary/Septic Sewer Discharges

Sanitary debris/paper

- Soap suds Gray or colored water



Industrial Discharges

- Loose debris White foam Odor





Construction Site Runoff Nutrients/Fertilizer





Spotting Illicit Discharges

Pollution detection of sediment, nutrients, oil and bacteria that can drain to lakes and streams through storm drains.

IDEM Emergency Response 888-233-7745

Columbus Engineering Dept 812-376-2540

Stormwater Coordinato

Email information & photos to:



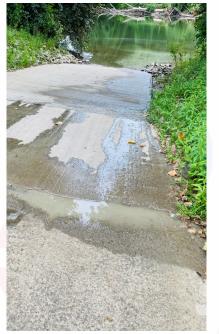




Department Training

Parks Department

- Conduct annual training
 - Worked with them to provide videos
 - Good Housekeeping Pollution and Prevention
 - Refueling
 - Stormwater 101
 - Compliance Issue
 - Proper Concrete Washout Procedures for contractors







Department Training

Department of Public Works

- Complaints- responses
- Week long Department Training
 - Good Housekeeping Pollution and Prevention
 - IDDE
 - Visual Inspections of conveyance

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7:00 AM - 9AM	Group A Human Trafficking Room: Inst.: Boris Group B Emotional intelligence Room: Inst.: R. Chasey	7:00 AM - 10AM	ALL A-B GROUPS Self Defense Training Room: Training Bay Instructor: Columbus Police Decartment	7:00 AM - 9AM	Group C Human Trafficing Room: Inst: Boris Group D Emotional intelligence Room: Inst: R. Chasey	7:00 AM - 10AM	ALL C-D GROUPS Self DefenseTraining Room: Training Bay Instructor: Columbus Police Department	DPW.ALL.STAFF ON COLLECTIONS
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	Group B Human Trafficking Room: Inet.: Boris		ALL A-B GROUP'S Severe Weather Training Room: Training Bay Instructor: Shannan Cooke B.C. Emergency Management	9:00 AM - 11: 00 AM	Group D Human Trafficing Room: Inst.: Boris		ALL C+D GROUPS Severe Weather Training Room: Training Bay Instructor: Shannan Cooke B.C. Emergency Management	
11:00 AM - 12: 00 PM	LUNCH			11:00 AM - 12: 00 PM	LUNCH			
12:00 PM - 1:30 PM	Group A See Something Say Something Room: Inst.: Boris	12:00 PM - 1PM	Email/ESS Refresher DPW Room: Transit Room:	12:00 PM - 1:30	Group C See Something Say Something Room: Inst.: Boris	12:00 PM - 1PM	Email/ESS Refresher DPW Room: Transit Room:	COOKOUTPICTURES
	Group B MS4 Training Room: Inst: L Christe	1:00 PM - 3:00 PM	Job Swap	1:30 PM - 3:00	Group D MS4 Training Room: Inst: L Christie		Job Swap	
1:30 PM - 3:00 PM	Group A MS4 Training Room: Inst: L. Christie				Group C MS4 Training Room: Inst: L. Christie			
	Group B See Something Say Something Room: Inst.: Boris		PM	Group D See Something Say Something Room: Inst.: Boris				



IDDE Case Studies



Other Responders

- Fire Department
- IDEM Emergency Response
- County Emergency Response
- County Health Department
- Wastewater
- Street Department
- Parks Department
- Etc.



Potential Reporters

- Fire Inspectors
- Building Inspectors
- Code Enforcement Inspectors
- Planning Inspectors
- Wastewater
- Wastewater Pretreatment Inspectors
- Health Department Inspectors
- Street Department
- Parks Department
- Etc.



Delivery Truck Leaking Diesel

- What Occurred?
 - Delivery truck had punctured fuel tank
 - They stopped made delivery and then stopped for breakfast
 - They continued to make deliveries out of the community and through county and other communities. They were finally stopped multiple communities away.
- Who Reported/How did Stormwater find out?
 - Local Fire Department was notified and responded first and contacted Stormwater.





Delivery Truck Leaking Diesel

- Who was involved?
 - Local Fire Department
 - MS4 Community- multiple departments
 - IDEM Emergency Response
 - County Emergency Management- The coordinator between violator, company responsible, Fire Departments, communities, and IDEM.
 - Delivery Truck Company
 - Environmental Clean-Up Company





Delivery Truck Leaking Diesel

- Wrap-Up
 - Conducted After-Action Meeting with Local Fire, MS4 Community departments. Reviewed what went well and what didn't and why
 - Recouped costs from the delivery company for manpower, equipment, vehicles, and supplies
 - Clean-up company flushed the storm system and disposed of the wastewater
 - Clean-up company soil remediation
 - Stormwater ensured cleanup with coordination with IDEM and County Emergency Management

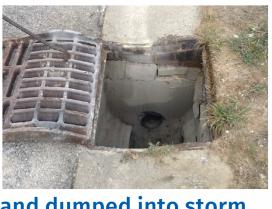




POOL Installation

- What Occurred?
 - Company installing underground pool washed out and dumped into storm drain of gunite. Discharged to open waterway
- Who Reported/How did Stormwater find out?
 - MS4 Community Employee witnessed
- Who was involved?
 - Stormwater Department
 - Building Department
 - Pool Company
 - Owner of Property
 - IDEM Emergency Response









POOL Installation

- Wrap-Up
 - Met with owner of pool company
 - Met with owner of property
 - Stop work order was placed (\$)
 - Notice of violation was issued (\$)
 - Storm line was plugged
 - IDEM Emergency Response worked with MS4 Community to spur getting the illicit discharge cleaned up.
 - Site was cleaned up, pipes were cleaned up. Due to access and that it had rained the stream was not cleaned.









Restaurant

Summary:

- What Occurred?
 - A restaurant used a structure as their grease disposal area. This caused backups for neighboring businesses but also the restaurant as well. The doghouse structure was a sanitary line. The restaurant tried to unblock line by
 bailing out the "water" out of structure and onto ground. They also had
 improper storage of grease outdoors.
- Who Reported/How did Stormwater find out?
 - Wastewater
 - They had received multiple complaints from neighboring businesses of plumbing backing up.

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Restaurant

- Who was involved?
 - Wastewater
 - County Health Department
 - Stormwater
 - Owner of Commercial Property
 - Owner of Restaurant







Restaurant

- Wrap-Up
 - Each entity had their regulations that they could enforce.
 - Structure was cleaned and replaced. Sanitary line was cleaned.
 - Under supervision of Wastewater.
 - Remediation of the soil. Revegetate ALL areas.
 - Educate ALL employees of Restaurant on the proper disposal of wastes.

 Provide detailed documentation of topics covered, date, and attendance list.
 - Restaurant was required to provide daily documentation of amount grease disposed, while Wastewater Staff inspected weekly to ensure that the spent oil is being dispensed into the appropriate container, and the indoor grease trap is being maintained properly.





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Plumbing Company

- What Occurred?
 - Sanitary lateral problems. MS4 community involved because of work in ROW and sanitary connection.
 - Street cut had the high potential to have mixed water in the trench.
 - Dewatering into storm drain. MS4 employees witnessed and informed company to cease and desist. Plumbing company immediately stopped.
 - Dewater into sanitary.
- Who Reported/How did Stormwater find out?
 - MS4 employees





Plumbing Company

- Who was involved?
 - MS4 Employees, wastewater
 - Stormwater
 - Plumbing Company
- Wrap-Up
 - Investigation follow-up next day. Rained.
 - Leaking truck onsite-clean streets and dewater trench more.
 - Notice of Violation issued- Carbon Copied: Wastewater, Health Department,
 IDEM Wastewater.
 - IDEM Wastewater forwarded to IDEM Criminal Investigator



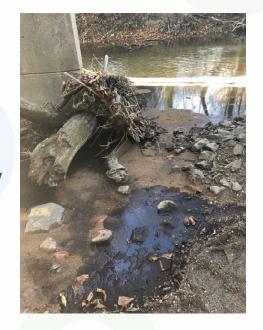


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Diesel Release



- What Occurred?
 - Company was performing maintenance on emergency generator. Emptied generator of fuel. Refilled fuel, overflowed and went into storm drain and immediately outlet to creek. Immediate report was 200 gallons, but was upgraded to 1300 gallons.
- Who Reported/How did Stormwater find out?
 - IDEM Emergency Management





Diesel Release

- Who was involved?
 - Fire Department
 - Property Owner
 - Generator company
 - Clean-up company
 - IDEM
 - Stormwater





Diesel Release

- Wrap-Up
 - Fire Department received call, responded, and reported to IDEM Emergency Management.
 - Clean-up efforts begun before Stormwater notified.
 - IDEM Emergency Response notified Stormwater.
 - IDEM Emergency Response and Stormwater worked together to oversee clean-up.
 - Grey area- direct discharge to creek. No fines, no NOV etc.





Trash complaint

- What Occurred?
 - Complaint received from homeowner of trash and discharge coming from property to the north of the small subdivision, a hobby farm. Been going on for years.
- Who Reported/How did Stormwater find out?
 - Homeowner
- Who was involved?
 - Stormwater
 - Police Department



Trash complaint

- Wrap-Up
 - Homeowner called back, report of trash coming from neighbor instead.
 - Homeowner was reporting on behalf of other neighbor too.
 - Homeowner called back, left message. Demanding follow-up now. Goons with tattoos (one of his neighbors came to talk to him). He felt unsafe.
 - Police Investigative Department was consulted to determine safety.
 - Drive-by was performed by Stormwater, no trash found.
 - Police Officer made site visit, spoke with Homeowner and neighbors. No trash found.

Lisa R Christie
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