

Stormwater Training



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Annual Training

University activities are subject to state & federal Environmental Protection Agencies

- Law and permits
- University has requirements to help meet these

Training required in the IEPA Permit

- Stormwater policies, permits, sediment/erosion control, & illicit discharges (new this year)
- Opportunity to discuss changes (new campus permit)

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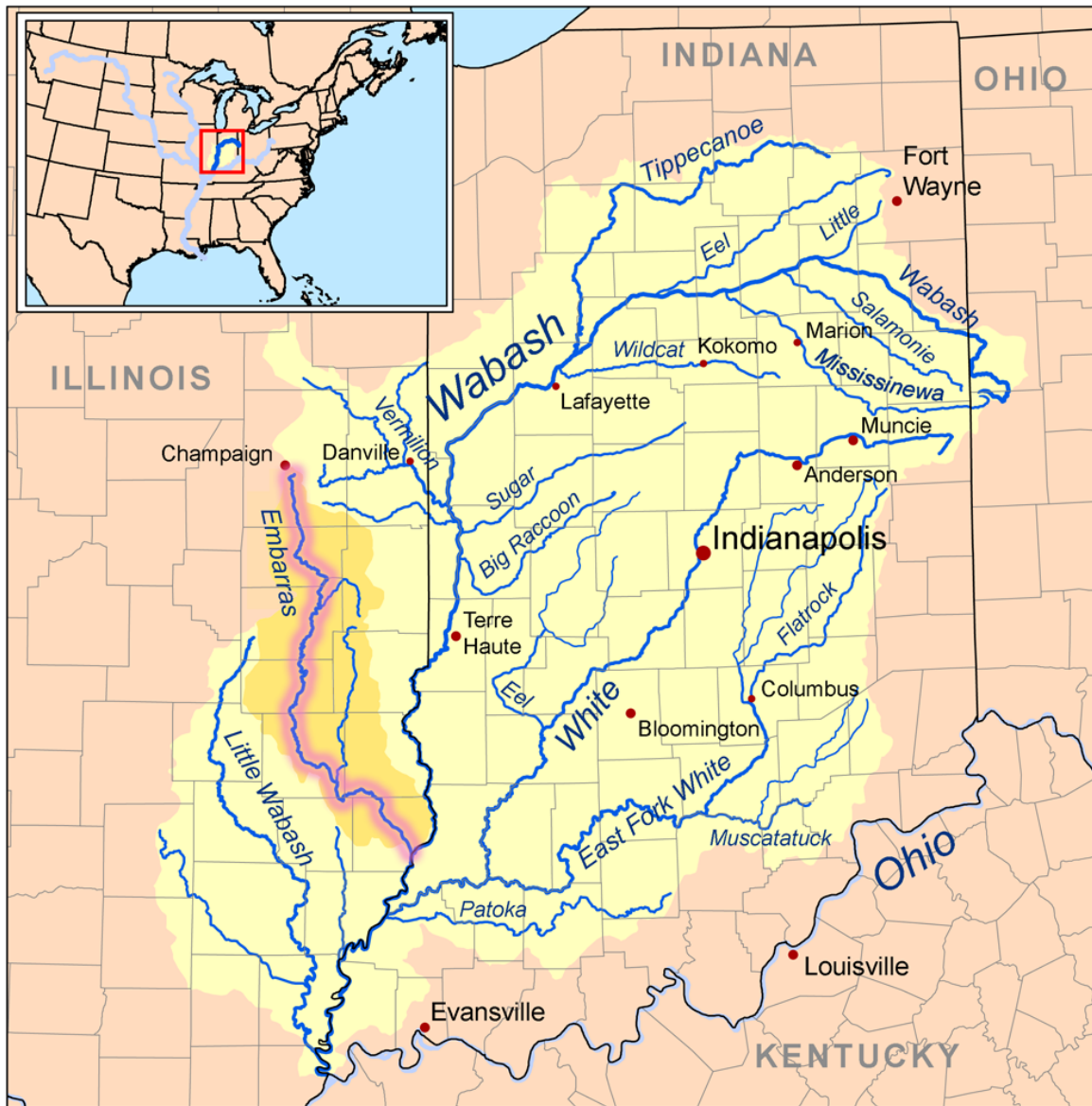
Campus Waterways



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Connections

Boneyard Creek →
 Saline Branch →
 Salt Fork →
 Vermilion →
 Wabash →
 Ohio →
 Mississippi →
 Gulf Mexico

Embarras →
 Wabash →
 Ohio →
 Mississippi →
 Gulf Mexico



Stormwater Rules

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Applicable Rules/Guidance

- **State Permit Rules** – Construction & operation (ACTIVITY/SIZE DETERMINE)
- **Federal Law/Clean Water Act** – Thou shall not pollute; contain sediment & keep out of drains/waterways (ALL SITES)
- **UI Facility Standards** – Green Stormwater Infrastructure/Low Impact Design, Storm Water Drainage Systems/no runoff increase, Site Enforcement, Progress Cleaning/Waste Removal, Soil Erosion & Sedimentation Control (ALL SITES)
- **UI CAM** – Prohibited unauthorized discharges to storm sewers (ALL SITES)
- **UI Landscape Master Plan & Rainwater Management Program** – Guidance for landscaping and rainwater management to help meet rules (ALL SITES)



Stormwater Permits

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Campus Stormwater Permits

Municipal Separate Storm Sewer System (MS4) Operating Permit

- Campus - general stormwater activities
- Required due to campus residential size & density
 - 50,000 people/500 people per square mile

Industrial Stormwater Operating Permit

- Willard – Requirement due to air transportation activity & discharge to storm
- Abbott Power Plant - Doesn't require permit since all outdoor drains connect to sanitary

Stormwater Construction Permit

- Projects – Requirement varies per construction site/size
 - 1 acre soil disturbance, including stockpile and storage areas



MS4 Stormwater Permit

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MS4 Permit Requirements

- Permit revision 7/2025
 - New – training, educational resources, construction and municipal inspections, maps, program assessments
- Develop Storm Water Management Program
 - Includes best management practices (BMPs) & goals for 6 minimum control measures
 - University currently has 58 BMPs (was 49)
 - Variety of campus units help comply
 - S&C, Planning, Capital, Construction Services, Labor Shop, Plumbers, Transportation, Utilities, Procurement, Grounds...
- Annual activity report due June 1st to IEPA

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Permit 6 Minimum Control Measures

1. ***Public Ed & Outreach*** – posters/brochures/flyers, biennial Green Infrastructure & Erosion Control conferences (10/25), Boneyard Creek Community Day (4/18/26)
2. ***Public Involvement & Participation*** – BCCD, iHELP, Green Quad Day, All Employee Expo, MS4 committee, employee illicit discharge training
3. ***Illicit Discharge Detection & Elimination*** – drain dye SOP, creek inspections, commercial/industrial illicit discharge training, outfall maps



Permit 6 Minimum Control Measures

4. *Construction Site Stormwater Runoff Control* – construction meetings, site inspections, qualified inspector, dewatering requirements, construction operator stormwater control training

5. *Post Construction Storm Water Management* – policies, low impact design, basin inspections, employee green infrastructure training

6. *Pollution Prevention/Good Housekeeping* – vehicle maintenance, waste/recycling program, catch basin cleaning, spill cleanup, salt storage/use training, municipal maps/inspections, landscape maintenance material reduction, employee permit/pollution training

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EPA Inspector Training

- Free Federal EPA training
- <https://www.epa.gov/npdes/construction-inspection-training-course>
- 7-hour training course; 5 modules
- Interactive
- Final Exam-40 questions; 80% pass
- Certificate



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Industrial Stormwater Permit



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Industrial Stormwater

- Willard IEPA permit required for industrial activities with potential to discharge to stormwater
 - Retention pond helps slow water runoff velocity and sediment
- General permit revised 7/2023
- Annual report and SWPPP updates due July 23rd to IEPA
- SWPPP/Willard manages -
 - Monthly deicing inspections when chemical used
 - Quarterly visual waterway outfall/field inspections
 - Quarterly airport activity inspections
 - Annual report



Stormwater Construction Permit

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Construction Permit

- IEPA permit revised 9/23; required if acre or greater soil disturbance; 30-day agency review, no application fee
- Project required documents – application, ISHPO & EcoCat approvals, Stormwater Pollution Prevention Plan (SWPPP) text & site plans
- EC works with PM/PC/PSC to obtain, review, submit permit app & SWPPP
- Inspections & sediment control/Project manages with contractor –
 - Weekly & after 0.5” rainfall inspections; qualified personnel
 - Daily dewatering inspections/documented/photos; discharges must be routed through sediment control & to vegetated or filler stone area
 - Chemicals stored at least 50 ft from inlets/waterways
 - SWPPP maps must include inlet discharges and discharge to waterway (may need 2 maps if distant)
 - Prior & during site erosion control inspections (new requirement, permittee must complete)

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Illicit Discharges & Erosion Control

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Illicit Discharges

- A discharge that is not composed entirely of stormwater
- Few exceptions:
 - Discharge permitted separately
 - Fire fighting activities, hydrant flushing, condensate, irrigation, dechlorinated pool water...
- If you don't know, ask!



Recognition Importance

- Sediment & Chemicals –
 - Reduces sewer & stream capacity; Increases flooding
 - Reduces light & limits aquatic plant growth
 - Depletes water oxygen & harms fish
 - Sticks to/smothers fish eggs
 - Decreases recreational water quality
- Potential regulatory fines & cleanup expenses



What to look for

- Cloudy creek water
- Oil sheen on creek water
- Chemical/oil spills or improper drum storage
- Improper deicing salt use/storage
- Sediment laden water being discharged to storm
- Unprotected drains near loose construction soil
- Construction entrance dirt tracking on street
- Unmaintained silt fences or soil stockpiles

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Sedimentation



Floating Oil/Grease

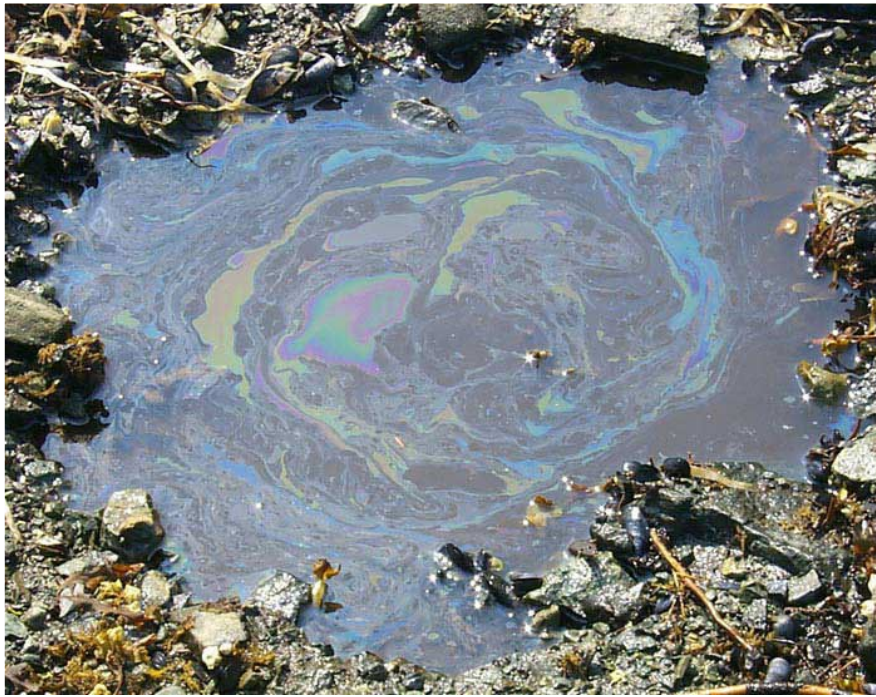


Photo credit NOAA



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Improper Drum Storage



Proper Drum Storage



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Deicing Salt

- Improper storage & use of deicing salt can also cause stormwater pollution
 - Salt must be stored under cover & away from drains
 - Application is important! Apply before storms, only where and as much as needed, do not dump on drains
- Training
 - F&S Transportation receives annual training
 - Willard completes deicing inspections
 - Toolbox Talk on S&C site for campus use; CRC developing residential document



Improper Dewatering



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Proper Dewatering



Photo credit A. Barton

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Unprotected Drains



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Proper Drain Protection



Photo credit D. Bloom



Non-Stabilized Entrances



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Stabilized Entrance & Sweeping



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Improper Silt Fences



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Proper Silt Fence & Stockpile



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Spill Response

You & Environmental Compliance are here to help!

- Train, post flyers!
- If life threatening spill call 911
- If non-life-threatening release:
 - Advise the contractor
 - Call F&S Service Office 217-333-0340
 - If after hours press 0 to be directed to Public Safety
 - Both offices will call Environmental Compliance & the Labor Shop for cleanup & potential spill reporting to local, state & federal agencies

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Thank you!

Questions?

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