# INAFSM

Stormwater Subcommittee MCM 6 – Pollution Prevention & Good Housekeeping Group

Stormwater Plans for Municipal Facilities

An Interactive Panel Discussion

## About P2 & GH Group

- The purpose of the group is to assist MS4s with implementing the P2 & GH program by:
  - Providing methods to assist with communication and cooperation between departments.
  - Clarifying requirements of the P2 & GH program.
  - Providing options for program implementation that considers cost, effectiveness and efficiency.
  - Describing and illustrating implementation methods.
  - Determining MS4 concerns and needs for P2 and GH.

## About P2 & GH Group

- P2 & GH Group 2017 Goals:
  - Provide options/ideas to the MS4 community on how to develop and implement a Storm Water Pollution Prevention Plan (SWPPP) or manual for a municipal facility.
  - Provide options/ideas to the MS4 community on how to develop and implement a municipal facility inspection.
  - Provide a list of training sources focused on municipal operations and post on webpage.

# **SWPPP Template**

- Includes general activities that could be applicable to all MS4 departments.
- Template easy to fill-out and customize.
- Includes items reviewed for audits.

# **Facility Inspections**

- To provide ideas on department activities to inspect.
- Can develop site specific inspection forms or general ones to use at every facility.
- Typically set up as a Yes or No answer.
- Include comments and corrective actions.

ALL PROBLEMS OR CONCERNS NEED TO BE ADDRESSED WITH A CORRECTIVE ACTION
Identify the problem by number and/or provide additional explanation as needed.
э

# Facility Inspections – Form Basics

 Provide inspector's name, date and department name.

11111::::::	Stormulator	Pollution Provention			
	Stormwater Pollution Prevention				
	Facility Self-Inspection Checklist				
	Conduct Inspection of your facility (at Management, and place the other in		nd sign this sheet, send a copy to		
MS4:	Facility:		Date		
☐ Yorktown	Conducted by:				
□ Delaware County	Address:				
☐ City of Muncie/MSD	Phone:	Email:	27 		
□ Ivy Tech	Employees at this facility: Maintenance employees at this facility:				
		1122 22 121			

MUNICIPAL FACILITY INSPECTION FORM				
NAME OF FACILIT	TY: DATE OF II	NSPECTION:		
YES NO	Facility Operations	Corrective Actions		
ls th	here a conv of the facility's Pollution Prevention & Good			

# Facility Inspections – Form Basics

 Can add routine program information to inspection to ensure site is completing.

#### Facility Operations

Is there a copy of the facility's Pollution Prevention & Good Housekeeping Manual (MANUAL) at the facility?

Is the MANUAL easily available to employees?

Is the aerial map of the facility current and correct?

Have employees been provided with <u>stormwater</u> pollution prevention training? Do you have documentation of the training?

#### **Employee Education**

Have employees had annual training?

Are sign in sheets and flyers added to SWPPP?

# Facility Inspections – Fueling Stations

**Fueling Station** 

	Does this facility have a fueling station?
	Is a spill kit available? Does it need to be restocked?
	Is "Spill Kit", "Do Not Top Off Tank" and "Spill Response" signage posted?
	Is there an emergency shut off? Does it have signage?
	Are fuel tanks above ground?
	Are above ground tanks double walled?
Fueling Areas	Are there barriers to prevent tanks/pumps from being hit?
Are there any fueling areas located at this facility? (If "No", stop. This form is complete.)	Are storm drains located near by?
Are fuel spills tracked and is cleanup documented?	Is there overflow protection?
• • • • • • • • • • • • • • • • • • • •	Is there a secondary containment device for small fuel cans?
Does the MANUAL include an SOP for fueling areas?	Does this facility have SOPs for fueling?
Are there spill kits available near the fueling area?	
Is overflow protection installed for fuel tanks (secondary con	tainment)?
Do fueling nozzles have automatic shut-off?	
Are storm drains located near the fueling area?	
Is there proper signage at fueling sites?	
Have all employees who use the fueling area been protrained?	pperly

# Facility Inspections – Fueling Stations

a.	Are the used on tanks labeled as "Used On?"
11.	Is the Fueling Area clean with no drips or spills?
a.	Is the secondary containment for the aboveground storage tanks clean and
	empty?
Ъ.	Are the valves closed on the secondary containment areas?
c.	Are spill kits stocked and easily accessible in the fueling area?
d.	Are the pumps locked when not in use?
e.	Is the used oil tank labeled as "Used Oil?"
10	7 1:1 : 1 : 1 : 1 : 1 0

# Facility Inspections – Stockpiles

#### PROBLEM or CONCERN

Is the brush neatly piled and isolated from storm inlets and ditches?

Is the gravel neatly piled and isolated from storm inlets and ditches?

Is the asphalt cold patch neatly piled and under the shed?

Is salt being swept up and not being exposed to stormwater?

Is the salt storage area entrance closed/covered?

#### Material Storage and Waste Management (continued)

STOCKPILES: Are outdoor stockpiles properly managed? What materials are stored on site?

SALT / SAND: What deicing materials are used? Are deicing materials properly stored under cover?

COMPOSTING: Are composting materials properly managed and contained?

Are epill leite vieible and easy to access?

# Facility Inspections – Deicing

is the aspirant cord paten nearly price and under the snear

Is salt being swept up and not being exposed to stormwater?

Is the salt storage area entrance closed/covered?

And because the second of the

)	ei	C	in	g

What deicing materials do you use?

Is salt storage covered?

If not, is it located away from storm inlets and contained?

Is it located on a paved surface? Lined or bermed?

Do you have sand stockpiles?

Are they covered? \_\_\_\_ Bermed? \_\_\_\_ Contained? \_\_\_\_

Do you calibrate snow plows?

What is the quantity of salt you have applied to roads?

What is the quantity of alternative products you have applied to roads?

What efforts have you made to minimize run off from deicing operations?

Do you have a designated snow stockpile area?

# Facility Inspections – Storm Structures

#### Storm Structure Cleaning

N/A Yes No

Do you have a maintenance plan for cleaning storm structures?

Are you tracking and documenting the number of storm structures cleaned?

Are you tracking the amount of sediment, floatables and debris removed from these structures?

Are you documenting proper disposal?

What length of storm drain pipe has been cleaned?

Do you have a schedule for cleaning and inspecting outfalls?

Are you tracking the number of outfalls cleaned or repaired for scouring?

# Facility-Grounds-Management# Was-there-evidence-of-contaminated-stormwater-runoff-leaving-the-perimeter? Was-there-evidence-of-illicit-discharge-leaving-the-facility? Was-there-evidence-of-illicit-discharge-leaving-the-facility? Do-stormwater-conveyances-and/or-storage-areas-need-to-be-repaired? Is-the-facility-cleaned-regularly-to-prevent-build-up-of-pollutants? Are-storm-drains-free-of-debris? Do-inside-or-outside-drains-discharge-to-the-storm-sewers? Are-outside-dumpsters-in-proper-condition-with-covers? Are-turf-management-practices-in-place-for-grass-areas? Is-there-a-parking-lot-maintenance-program-in-place-at-the-facility? Is-there-a-parking-lot-maintenance-program-in-place-at-the-facility?

# Facility Inspections – Chemical Areas

103 2719-2	0			
5.	Are hazardous waste materials contained and not exposed to stormwater?			
6.	Is the used oil storage area for the Oil Burners clean with no drips or spills?			
a.	Is the secondary containment pallet clean and empty?			
Ъ.	Is the absorbent used and then cleaned up and disposed of properly?			
c.	Are the two 330 gallon plastic totes for used oil in good condition (no			
	dents, structural damage, etc.)?			
d.	Are the used oil drums in good condition (no dents, rusting, etc.)?			
e.	Are the used oil totes and drums labeled/marked as "Used Oil?"			
7.	Is the 1,000 gallon used oil storage tank for the Oil Burners clean with no			
	drips or spills?			
a.	Is the absorbent used and then cleaned up and disposed of properly?			
Ъ.	Is the tank in good condition (no dents, rusting, etc.)?			
c.	Is the used oil tank labeled as "Used Oil?"			
8.	Is the Oil Transfer Station and area clean with no drips or spills?			
a.	Is the catch basin clean and empty?			
b.	Is the absorbent used and then cleaned up and disposed of properly?			
c.	Are the overhead oil tanks are in good condition (no dents, rusting, etc.)?			
9.	Is the Used Antifreeze poly tank in the Oil Recycling Building clean with no			
	drips or spills?			
10.	Are the Used Oil poly tanks in the Oil Recycling Building clean with no drips			
8	or spills?			
a.	Is the secondary containment clean and empty?			
b.	Is the absorbent used and then cleaned up and disposed of properly?			
c.	Is the tank in good condition (no dents, structural damage, etc.)?			
d.	Are the used oil tanks labeled as "Used Oil?"			
11	T 4 T 1 4 1 14 11 11 11 0			

# Facility Inspections – Chemical Areas

#### **Facility Best Management Practices**

Does this facility have SOPs for spills and clean up?

Does this facility have bmps for vehicle maintenance area?

Is all vehicle maintenance performed inside?

Are all opened containers in secondary containment?

Is there water or fluids present in containment devices?

Is waste oil container clearly marked?

Is oil dry disposed of in a clearly marked container?

Is the amount of used oil, transmission fluid, antifreeze, parts cleaner and

other liquids collected recorded? Documentation of disposal?

Are there spill kits in the vehicle maintenance area? Do they need restocked?

Is there "S	spill Kit"	and "	Spill Res	ponse"	signage?
Are spills	recorde	d?			
Are spill t		ilabla	for looki	na vobi	clos

Are spill trays available for leaking vehicles?

Are there visible leaks or spills?

Has the hazardous materials on site list changed?

#### Material Storage and Waste Management

Are <u>BMPs</u> in place for waste materials removed from the operational areas?

Are recycled materials disposed of in the proper manner?

Are all containers properly labeled?

Is secondary containment provided to prevent accidental loss of concentrated solutions?

Are bulk bags regularly inspected for tears and leakage?

Are contaminated materials being stored outside uncovered?

# Facility Inspections – Vehicle Maint.

#### Vehicle Maintenance

Is there a designated vehicle maintenance area at the facility? (If "No", skip to Fueling Areas)

Have vehicle maintenance practices been implemented?

Do inside drains go to <u>stormwater</u> conveyance? Are separators in place?

Do vehicle washout areas go to storm drains? Are separators in place?

Is used oil properly labeled, contained, and disposed of?

Is written documentation kept of vehicle maintenance, spills, and cleanup?

Are spill kits located within the vehicle maintenance area?

Is vehicle maintenance being conducted only indoors?

Is vehicle washing being conducted only indoors?

Are absorbent materials stocked and readily available?

Is the floor clean?

# Facility Inspections – Vehicle Maint.

Does this facility have bmps for vehicle maintenance area? Is all vehicle maintenance performed inside?

And applicately a continuous continuous venticates

Are there visible leaks or spills?

Has the hazardous materials on site list changed?

Has preventative maintenance on pumps or tanks been performed?

Has this maintenance been documented?

Are used batteries stored indoors?

Are indoor drains painted?

Have indoor drains been cleaned? Date documented?

Are vehicles washed inside?

Does this facility have an oil separator?

When was separator last cleaned? Documentation?

#### Waste Disposal

Does this facility recycle paper/plastics?

Do you recycle used oil?

Do you have current documentation of oil recycling?

Do you have documentation for vehicle battery exchange?

Have you documented the amount of waste generated at this facility?

Is waste collected from storm sewer systems and operational areas disposed of according to IDEM regulations?

Have you documented the amount of hazardous waste collected and disposed of?

#### Litter Clean Up

Have you identified areas of frequent illegal dumping?

Have you posted new no dumping signs?

Reports of illegal dumping complaints received?

Number of dump sites cleaned up?

Improvements made to sites to make them less likely targets?

Enforcement actions for dumping?

Pesticides, Fertilizers, Herbicides, Lawn Care

Do you use pesticides? \_\_\_\_ Fertilizers? \_\_\_\_ Herbicides? \_\_\_\_
Do they require a State Chemist License?

Do you spot spray for weed control or broadcast?

Do you irrigate?

Are grass clippings left in grass during mowing?

Are employees trained to blow grass clipping into grass and not streets or sidewalks?

#### Road Repair and Maintenance

N/A

Does this facility conduct street sweeping?

Is there a street sweeping plan?

Is a log kept of roads swept?

Is the amount of debris collected documented?

Is proper disposal of debris documented?

Is a list of bridge and roadway construction projects kept?

Is the quantity of debris and dredge spoils removed from these sites documented?

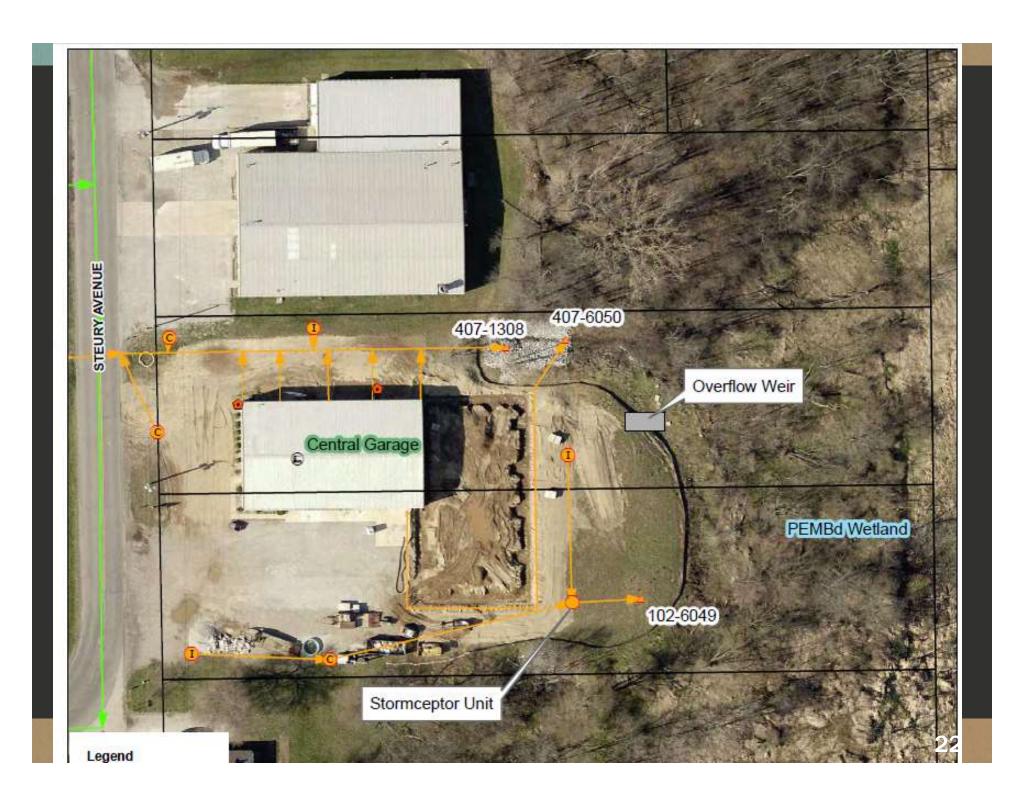
Does this facility do roadside shoulder and ditch maintenance?

Where does this material go?

Is concrete cutting slurry contained or directed to vegetated area?

# **SWPPP Facility Maps**

- Items to include on facility maps:
  - Chemical and waste storage locations
  - Spill kits
  - Infrastructure stormwater vs. sanitary sewer discharge points
  - Stockpiles
  - Surface flows





The City of Goshen's Digital Data is the property of the City of Goshen and Elkhart County, Indiana. All graphic data supplied by the city and county has been derived from public records that are constantly undergoing change and is not warranted for content or accuracy. The city and county do not guarantee the positional or thematic accuracy of the data. The cartographic digital files are not a legal representation of any of the features depicted, and the city and county disclaim any sumption of the legal status they represent. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, shall be expressly excluded. The data represents an actual reproduction of data contained in the city's or county's computer files. This data may be incomplete or inaccurate, and is subject to modifications and changes. City of Goshen and Elkhart County cannot be held liable for errors or omissions in the data. The recipient's use and reliance upon such data is at the recipient's risk. By using this data, the recipient agrees to protect, hold harmless and indemnify the City of Goshen and Elkhart County and its employees and officers. This indemnity covers reasonable attorney fees and all court costs associated with the defense of the city and county arising out of this disclaimer.



#### Central Garage

GOOD HOUSEKEEPING FACILITIES MAP 2013 AERIAL PHOTOGRAPHY

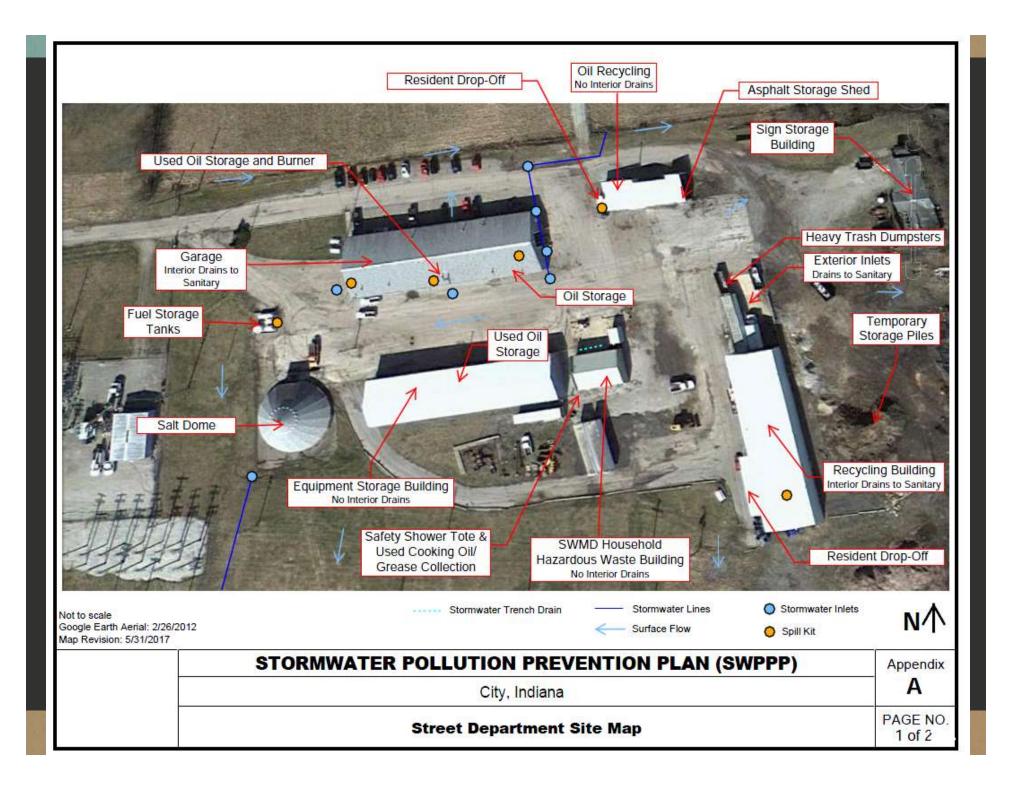
#### Figure 2

The City of Goshen

Department of Public Works & Safety

Office of Engineering

204 East Jefferson Street, Goshen, Indiana 46528 Phone: 574-534-2201 Fax: 574-533-8626



# Stormwater Plans for Municipal Facilities An Interactive Panel Discussion

Questions?

Discussion?

Ideas to share?

# INAFSM - Stormwater Subcommittee MCM 6 - Pollution Prevention & Good Housekeeping Group

Susan Bodkin, Surveyor, Hancock County

Toni Cecil, INAFSM Stormwater Chair

Amy Harvell, P2 & GH Group Chair, Wessler Engineering

Jason Kauffman, Stormwater Coordinator, City of Goshen

Reggie Korthals, Stormwater Specialist, Butler, Fairman & Seufert

Kriste Lindberg, Stormwater Education Specialist, City of Bloomington Utilities Department