

Annual Stormwater Pollution Prevention Training

Columbus Airport

August 2018



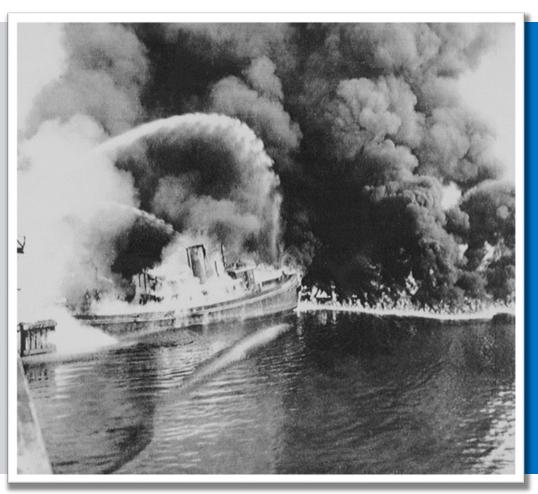
Agenda

- **Regulatory Background**
- 2. Regulated Activities
- 3. Roles and Responsibilities
- 4. Best Management Practices
- 5. Spill Response
- 6. Inspections and Monitoring
- Reporting

Regulatory Background

JUNE 22, 1969: UMM, THE CUYAHOGA RIVER'S ON FIRE ... AGAIN

- » Clean Water Act (CWA) of 1972
- Gave EPA authority to implement pollution control programs, such as the National Pollutant Discharge Elimination System or NPDES program



Source: TIME Magazine

Regulatory Background

- » EPA delegated authority to the individual states Georgia Department of Natural Resources (GADNR) Environmental Protection Division (EPD)
- » NPDES Permit GAR050000 Storm Water Discharges Associated with Industrial Activity, Sector S – Air **Transportation**
- » Coverage through submittal of Notice of Intent (NOI)

PERMIT NO. GAR050000

ISSUANCE DATE: June 1, 2017



ENVIRONMENTAL PROTECTION DIVISION

Authorization to Discharge Under the National Pollutant Discharge Elimination System Storm Water Discharges Associated with Industrial Activity

In accordance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act," the Federal Clean Water Act, as amended (33 U.S.C.1251 et seq.), hereinafter called the "Clean Water Act," and the Rules and Regulations promulgated pursuant to each of these Acts, all new and existing stormwater point sources within the State of Georgia that are required to have a permit, upon submittal of a Notice of Intent, are authorized to discharge stormwater associated with industrial activity to the waters of the State of Georgia in accordance with the limitations, monitoring requirements and other conditions set forth in Parts 1 through 8 and Appendices hereof. This permit shall become effective on June 1, 2017.

This permit and the authorization to discharge shall expire at midnight, May 31, 2022.

Signed this day of March 2017.



Environmental Protection Divi-

Stormwater Pollution Prevention Plan

Protects water resources

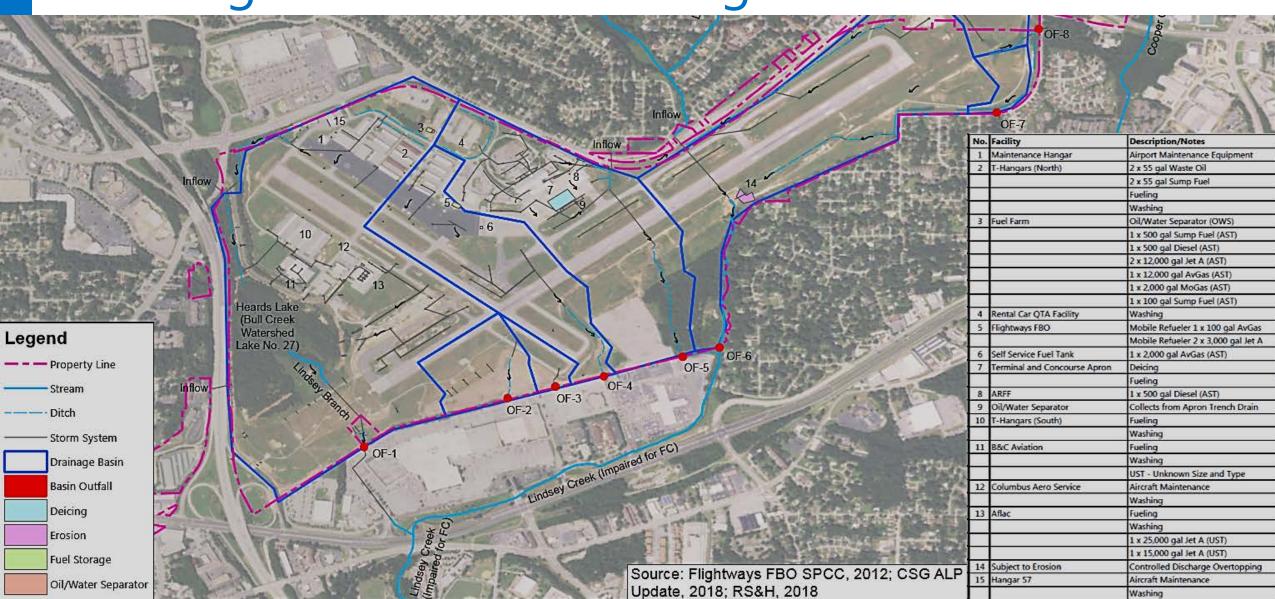




Where are your operations?



Drainage Areas and Discharge Outfalls



Covered Industrial Activities

- » Vehicle and aircraft maintenance
 - rehabilitation
 - mechanical repairs
 - painting
 - fueling and lubrication
- » Equipment cleaning operations
- » Runway rubber removal
- » Waste management
- » Airport deicing operations



Operators w/ Industrial Activities

- » Must submit a separate NOI requesting coverage under GAR050000
- » Must submit through Georgia EPD GEOS website https://epd.georgia.gov/geos/
- » Must comply with the signatory requirements of the SWPPP
- » Operators form the CSG Pollution Prevention Team (PPT)



CSG Pollution Prevention Team



CSG Pollution Prevention Team

		Table	2: Pollution Prevention 1	eam Member Lis	t	
co-participant	Map ID	Address/Location	SIC Code	PPT Member	Telephone	Email
ARFF	8	ARFF Station		Andre D Parker	(706) 330-8250	aparker@flycolumbusga.com
Aflac	13	5290B Armour Road	6311	James Stone	(706) 596-5902	<u>istone@aflac.com</u>
B&C Aviation	11	5290A Armour Road		Shay Ingle	(706) 644-8305	shayingle@synovus.com
Baron Aviation Services		Ramp tiedown between D1&D2	4512	Shawn Bancroft	(573) 299-4744	sbancroft@baron-aviation.com
Bart Steed/Philip Johnson	2	Hangar-6C		Philip Johnson	(706) 324-6080	pjjlaw@knology.net
Branch Real Properties, LLC	2	Hangar E-6		Eddie Branch	(706) 888-2310	eddie@nationalpaymentsolutions.com
Cham Watkins	2	CSG Airport Storage Room		Cham Watkins	(706) 464-9700	cham.watkins@gmail.com
Clinton Perkins	10	21G		Clint Perkins	(678) 592-9020	ccperkins@live.com
Columbus Aero Service LLC	12	Hangar -19		Robert Boehnlein	(706) 573-5699	robert@columbusaeroservice.com
Debbie Morris	10	Hangar-21B		Debbie Morris	(706) 405-0120	debbie3174u@att.net
Flightways Columbus	5	FBO Building		Amber Clark	(706) 324-2453	aclark@flightwayscolumbus.com
George Kelly	2	Hangar-D7		George Kelly	(706) 587-6767	ggunnerkelling@gmail.com
James Roddy	10	Hangar-18l		James Roddy	(706)681-0614	iroddy@seho.us
JW Culpepper, LLC		5510 Veterans pkwy STE 102		Wayne	(706) 332-7335	wculpepper@knology.net
Louis McCosh	2	Hangar 5B		Louis McCosh	(706) 575-3256	McCosh@crownthermo.com
Terry L Wiggins	2	Hangar-15D		Terry Wiggins	(706) 566-4065	terry@wigginsinsurance.com_
Thomas & Dorinda Morpeth		200 Manton Drive		Dorinda Morpeth	(706) 718-0560	flygal@charter.net

Responsibilities –PPT Leader

- Submit initial NOI and renewals every
 5 years and ensure that all members of the PPT also submit NOI and renewals
- » Coordinate overall PPT to maintain SWPPP requirements
- » Provide annual training to PPT members
- » Schedule and conduct PPT meetings
- » Ensure that each member of the PPT carries out applicable duties
- » Conduct and/or ensure that quarterly visual observations at all industrial stormwater discharge outfalls are conducted as specified in the Permit
- » Conduct and/or ensure that all required routine inspections are conducted
- » Perform the annual updating and certifications as required by the SWPPP
- » Ensure that annual benchmark monitoring is completed
- » Complete and submit the annual report on GEOS

Responsibilities – PPT Members

- » Submit initial NOI and renewal every 5yrs
- » Sign and understand SWPPP
- » Attend PPT meetings
- » Implement BMPs
- » Perform routine inspections for all applicable areas and provide inspection documentation to PPT leader
- » Perform record keeping and documentation as required by the SWPPP
- » Evaluate the adequacy of the SWPPP and notify the PPT leader of the need for modifications



What To Do And When To Do It

Task to be Performed	Documentation	Frequency	Responsible Party
SWP3 Certification	SWPPP Certification	Upon approval and after each SWP3 modification	Representatives of all PPT Members meeting the signatory requirements.
SWPPP Training Records	SWPPP Appendix J	Annually or as needed	PPT Leader
Corrective Action and Maintenance	SWPPP Appendix B	As required	PPT Member
Routine Inspections	SWPPP Appendix C1	Minimum of Quarterly	PPT Leader/ PPT Members
Quarterly Inspection	SWPPP Appendix C2	Quarterly	PPT Leader
Annual Inspection	SWPPP Appendix C3	Annually	Authorized Representative

Annually

Annually

As required

PPT Leader

PPT Leader

PPT Leader

SWPPP Appendix E

Revise SWPPP Section(s)

update signatory pages

Collect and maintain

applicable data

Annual Report

SWP3 Modifications

Benchmark Monitoring

QUIZ 1

1. What does NPDES stand for?

Answer: National Pollution Discharge Ellimination System

2. What sector do airports fall under in GAR050000?

Answer: Sector S

3. True or False, only the PPT leader has to complete the signatory requirements of the SWPPP

Answer: False



B M S

Table 1: Exposed Materials, Potential Pollutants and Applicable BMPs							
Facility	Map ID	Activities, Exposed Materials, and Potential Pollutants	Applicable BMPs	Drainage Basin			
CSG Maintenance Hangar	1	Aircraft maintenance, aircraft refueling, vehicle maintenance, vehicle refueling, oil and/or grease storage, waste oil and/or grease storages.	SC1, SC2, SC3, SC7, SC8, SC9, SC11, SC12, SC14, SC16	1			
Terminal and Concourse Aprons	7	Occasional deicing activities, aircraft washing, refueling activities	SC1, SC2, SC3, SC4, SC5 SC7, SC8, SC9, SC10, SC11, SC14, SC16, TC1	5			
Airfield			SC17	All			
Airport Rescue Fire Fighting (ARFF)	8	Vehicle washing, refueling activities, firefighting activities, chemical storage, material/equipment storage, 500-gallon deiseal AST	SC1, SC2, SC3, SC7, SC8, SC12, SC15, SC16	5			
Flightways FBO	5	Refueling activates, aircraft lavatory service, vehicle maintenance, vehicle refueling, hazardous material storage, potable water flushing, cargo handling, oil and/or grease storage, waste oil and/or grease storage. One 100 gallon AvGas mobile refueler and two 3,000-gallon Jet A mobile refuelers	SC1, SC2, SC3, SC4, SC9, SC10, SC11, SC12, SC13, SC14, SC16, SC18	4			
Flightways Fuel Farm	3	One 500 gallon and one 100 gallon sump fuel tank, one 500 gallon diesel tank, two 12,000 gallon Jet A tanks, one 12,000 gallon AvGas tanks, and one 2,000 gallon MoGas tank	SC7, SC8, SC11	1			
Self-service Fuel Station	6	One 2,000 gallon AvGas tank	SC7, SC8, SC11	4			
Rental Car QTA	4	Vehicle washing	SC4	5			
Columbus Aero Service	12	Aircraft Maintenance, aircraft washing, waste oil and/or grease storage	SC1, SC2, SC4, SC9, SC11, SC12, SC14, SC16	1			
Hangar 57	15	Aircraft & vehicle maintenance and washing, waste oil and/or grease storage	SC1, SC2, SC4, SC9, SC11, SC12, SC14, SC16	1			
Stark Avionics		None		1			
B&C Aviation	11	Aircraft maintenance, refueling activates, aircraft lavatory service, aircraft washing, vehicle maintenance, vehicle refueling, shipping and receiving, hazardous material storage, apron wash-down, fuel storage, floor wash-down, chemical storage, material/equipment storage, material/equipment maintenance, oil and/or grease storage, waste oil and/or grease storage, storage of degreasers, cleaning, solvents, paints, and sealants.	SC1, SC2, SC3, SC4, SC9, SC10, SC11, SC12, SC13, SC14, SC16, SC18	1			
T-Hangars	2, 10	Aircraft maintenance, refueling activates, aircraft washing, vehicle maintenance, hazardous material storage, fuel storage, material/equipment storage, material/equipment maintenance, oil and/or grease storage, waste oil and/or grease storage, storage of degreasers, cleaning, solvents.	SC1, SC2, SC3, SC4, SC9, SC10, SC11, SC12, SC14, SC16	1			
Aflac	13	Aircraft maintenance, refueling activates, aircraft lavatory service, aircraft washing, vehicle refueling, vehicle washing, shipping and receiving, fuel storage, floor wash-down, storage of fuels, lubricants, degreasers, cleaning, and sealants.	SC1, SC2, SC3, SC4, SC9, SC10, SC11, SC12, SC13, SC14, SC16, SC18	1			
Aflac Fuel Farm	13	25,000 and 15,000 gallon Jet A fuel ASTs, 70 gallon Used Oil AST, 30 gallon sump fuel	SC7, SC8, SC11, TC1	1			

Best Management Practice (BMP) Categories

- » Good Housekeeping
- » Minimize Exposure
- » Erosion and Sediment Control
- » Activity Specific
- » Spill Management

COLUMBUS AIRPORT COMMISSION COLUMBUS AIRPORT

SC2

AIRCRAFT, VEHICLE AND EQUIPMENT MAINTENANCE

PURPOSE

Prevent or reduce the discharge of pollutants to stormwater from aircraft, vehicle, and equipment maintenance and repair, including vehicle and equipment painting/stripping and floor wash-downs.

TARGETED ACTIVITIES

- Aircraft Maintenance
- Vehicle Maintenance
- Equipment Maintenance

INDIVIDUAL OPERATOR PRACTICES

Operators/tenants that perform targeted activities are required to implement Best Management Practices (BMPs) to prevent stormwater pollution. BMPs are defined as actions, equipment and infrastructure that achieve the purpose of the BMP (defined above), are site specific, and may include all or a combination of the following individual practices depending on operator preference and site constraints:

- Perform maintenance activities indoors, provide cover over work area, or conduct off-airport.
- 2. Use drip pans and tarps to catch and collect spilled materials.
- Properly dispose of drip pan contents regularly.
- Drain equipment being staged for repair. Drain and properly dispose of fluids and remove batteries from salvage aircraft, vehicles, and equipment. Drain and crush oil filters (and oil containers) before recycling or disposal. Store crushed oil filters and oil containers in a leak-proof container, covered if outdoors.
- Clean up small drips and splashes. Use absorbent materials and/or vacuum equipment. Adequately collect/remove absorbent materials from area after use and properly dispose of them.
- 6. Label stormwater drain inlets to indicate they are to receive no wastes. Do not hose down work area to the stormwater drainage system or use concrete cleaning products unless the stormwater drain inlet is blocked and wash water is collected and properly disposed of through a permitted sewer connection. As an alternative, use mops, dry sweeping compounds, or contact professional cleaning services. Confirm the use of appropriate disposal practices by contract cleaning services.
- Recycle or properly dispose of spent material, which may include the following: greases, oils, antifreeze, brake fluid, cleaning solutions, hydraulic fluid, batteries, transmission fluid, and filters.
- Use biodegradable products and substitute materials with less hazardous properties, where feasible.
- For maintenance areas:
 - Use designated washing, steam cleaning, and degreasing area to clean equipment.
 - Store mechanical parts and equipment that may yield even small amounts of contaminants (i.e., oil or grease) under cover and away from drains.
 - Equip maintenance and cleaning areas with runoff controls that prevent discharge to the stormwater drainage system.

TARGETED POLLUTANTS

- Oil and Grease
- Petroleum Hydrocarbons
- Ethylene Glycol
- Solvents/Cleaning Solutions
- Battery Acids

Minimize Exposure

- » Store Materials Under Cover
 - Inside if possible
 - Cover if stored outside
 - Close dumpsters
- » Secondary Containment
- » Perform Maintenance Inside





Erosion and Sediment Controls

- » Pavement Sweeping
 - Terminal ramps, taxiways, and runways
 - Parking lots
- » Vegetative Cover
 - Channel, swale, and ditch side slopes
- » Construction Activities
 - Inlet Protection
 - Site Stabilization
 - Silt fencing





Erosion and Sediment Controls (cont)

- » Management of Runoff
 - Open Channel, Ditch, and/or Swale
 - Wet or Dry Retention/Detention Pond





Activity Specific BMPs Elimination of Non-stormwater Discharges to Storm Drains (SC1)







Activity Specific BMPs



Aircraft, Vehicle, and Equipment Maintenance (SC2)



Activity Specific BMPs Aircraft, Vehicle, and Equipment Fueling (SC3)







Activity Specific BMPs Aircraft, Vehicle, and Equipment Washing (SC4)





Activity Specific BMPs Aircraft Deicing (SC5)





Activity Specific BMPs Outdoor Material Storage/Handling, Above Ground Storage Tanks, (SC7 & SC8)









Activity Specific BMPs Waste handling and disposal (SC9)







Activity Specific BMPs

Fire Fighting Foam Discharge (SC15)

CHEMGUARD INC.

6% AFFF

AQUEOUS FILM FORMING FOAM FOR USE ON HYDROCARBON FIRES

AC 150/5220-10E

* Complementary System Options Worksheet (Class 5)

Primary Turret Discharge Nozzle	Options a complementary agent discharge mounted parallel to the AFFF solution discharge on the primary turret mounted on the cab roof. a combination dry chemical/ AFFF nozzle of the entrainment type on the primary turret mounted on the cab roof. a complementary agent discharge mounted parallel to the AFFF solution discharge on the primary turret mounted on the front bumper. a combination dry chemical/ AFFF nozzle of the entrainment type on the primary turret mounted on the front bumper.
Preconnected Handline(s) - Quantity	a halogenated agent only discharge on the primary turret mounted on the cab roof/penetrating nozzle. One Two
Preconnected Handline(s) - Side	O Left O Right O Both
Additional Handlines *	or a reel dual agent - 100 feet of 1-inch dry chemical hose on a reel dual agent - 100 feet of twinned 1-inch dry chemical / foam-water hose on a reel halogenated agent - 150 feet of 1-inch halogenated agent hose on a reel none

^{*} Note: If a dry chemical or halogenated agent has been selected as a complementary system, then a Note: if a dry chemical or halogenated agent has been selected as a complementary system, then a hose reel for each/either option has automatically been added to this vehicle specification. This option refers to an additional/secondary hose reel for the agent.

Vehicle Space Requirements Worksheet (Class 5)

M	aximum Requirements Inches/cm	D	imensions	Worksheet (Class 5)
	480 inches (3000 gallons) 540 inches (4500 gallons)	0	YES NO	
Width	124/315	0	YES NO	Not applicable.
Height		0	YES NO	

CLASS 5

Activity Specific BMPs Oil/Water Separators (TC1)





Activity Specific BMPs Building and Grounds Maintenance (SC10)





Additional Activity Specific BMPs

- » Stormwater Pollution Prevention Education (SC12)
- » Emergency Spill Cleanup Plans (SC16)
- » Runway Rubber Removal (SC17)
- » TMDL Bacterial Loading (SC18)
- » Painting operations (SC19)

COLUMBUS AIRPORT COMMISSION COLUMBUS AIRPORT

TOTAL MAXIMUM DAILY LOAD: INDICATOR BACTERIA

Lindsey Creek is identified as an impaired watershed for Fecal Coliform. In addition to the procedures identified in the SWP3, additional steps should be taken to prevent stormwater exposure to pollutants that could contribute to fecal coliform. The BMPs identified by SC18 are designed to prevent or reduce the discharge of pollutants to stormwater that contribute to bacteria

TARGETED ACTIVITIES

- Cargo Handling
- Floor Wash-Downs Potable Water Systems
- Garbage Waste Handling Lavatory Service Operations

INDIVIDUAL OPERATOR PRACTICES

Operator/tenants that perform targeted activities are required to implement Best Management Practices (BMPs) to prevent stormwater pollution. BMPs are defined as actions, equipment and infrastructure that achieve the purpose of the BMP (defined above), are site specific, and may include all or purpose or the later querined above, are site specific, and may recover as combination of the following individual practices depending on operator preference and site constraints:

- Monitor lavatory and garbage service handling operations to ensure
- Ensure hoses used in lavatory servicing are in good repair and
- handled in a manner to minimize leaks and drips. Rinse water from portable sanitary toilet servicing must be
- contained and disposed into the sanitary sewer system. Inspect and maintain oil/water separators, sanitary lift stations, grease traps, grit traps, and wash bays regularly in compliance with
- Monitor for and immediately correct sewage backups or stoppages in sanitary lines under direct control. Any backups or stoppages noted outside direct control are to be reported to local public works
- Take immediate corrective action for any noted illicit discharges
- Minimize the use of fertilizers and similar soil enrichments in
- Minimize and reduce landscape waste and ensure proper removal

CONTINGENCY RESPONSE

 Maintain adequate supplies of spill response equipment and materials in accessible locations near areas where spills may occur. Refer to the Emergency Spill Cleanup Plans BMP (SC16) for further

TARGETED POLLUTANTS

- Dumpster Wastes Landscape Waste
- Sediment/Floatables
- **Fertilizers** Lavatory Wastes

BMP_SC18.docxx

SC16-1

Spill Response

- » Source of spill should be stopped, if possible.
- » Spills should be contained immediately and prevention measures implemented to prevent a discharge into a waterway.
- » Emergency personnel should be notified for any spills that cannot be contained or has reached a waterway.
- » Complete corrective action form documenting the spill and provide copy to PPT Leader.
- » Properly manage all contaminated response materials.
- » Coordinate spill reporting obligations with PPT Leader.

Spill Kits

- » Located at Fuel and Maintenance Facilities
- » Inspected Regularly
- » Replace Immediately After Use

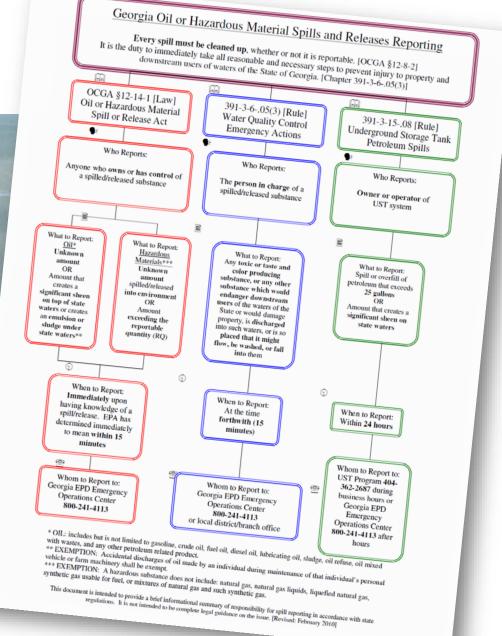






Spill Reporting





QUIZ 2

1. A spill is discovered, what is the first thing you do?

Answer: Attempt to stop the source of the spill

2. If the spill may have reached a waterway, who should the discoverer coordinate with about reporting?

Answer: PPT Leader

3. What does BMP stand for?

Answer: Best Management Practice



Routine Inspection

- » Must be conducted at least quarterly
- » Conducted by each member of the PPT for their applicable area where industrial material or activities are exposed to stormwater.
- » One inspection per year must be performed when stormwater discharge is occurring.
- » Must be signed and dated.
- » Reports should be maintained by each PPT member with a copy provided to the PPT Leader.
- » Airport is responsible for applicable airport operational areas.
- » Record of routine inspections kept in SWPPP Appendix C1.

1.	Outfa	II Descr	iption:						
Outfa	ill No		Stri	ucture (p	ipe, ditch, etc.)				
Recei	ving Stre	am: Lir	ndsey Cr	eek					
Dacci	ribe the i	nductri	al activit	ior that c	occur within the	outfall drains	go 2002:		
Desci	noc the r	nacion n	ar accorn	ics that t	Accur within the	Outrain Greinia	ge area.		
_									
2.	Color	Descr	iho the r	rolor of t	he discharge us	ing basic colors	fred brow	vn, blue, etc.) and	
					escriptors:				
3.	Odor:	Descri	ibe anv o	distinct o	dors that the di	scharge mav h	ave (i.e., sr	nells strongly of	
4.			se the r		vhich best descr	ibes the clarity	y of the dis	charge, where 1 is	
	1	2	3	4	5				
5.					umber which be where 1 is no so			of floating solids	
		ng solid		scrange,	where I is no so	nius anu 3 is u	ie surrace c	overed with	
	1	2	3	4	5				
6.	Suspended Solids: Choose the number which best describes the amount of suspended solids in the stormwater discharge, where 1 is no solids and 5 is extremely muddy:								
	1	2	3	4	5				
	-	-		_	-				
	Is the	re any f	oam in t	the storn	water discharg	e?	Yes	No	
7.									
	to the	co on -1	I abase	in the ct-		Corne			
7. 8.	Is the	re an o l	Isheen	in the sto	ormwater discha	arge?	Yes	No	

What to Look For









Quarterly Visual Observation

- » Must be conducted quarterly, can be conducted in conjunction to routine inspections.
- » Visual observations of outfalls (only one substantially identical)
- » Collect water in a clear glass or plastic container
- » Record observations and sign form



What to look for?

- » Color
- » Clarity
- » Floating Solids
- » Suspended Solids
- » Odor





What to look for?

Clarity (1 is clear and 5 is very opaque or cloudy)



Floating Solids (1 is no solids and 5 is the surface is covered with floating solids, trash, and debris)



What to look for?

Suspended Solids (1 is no solids and 5 is extremely muddy or clouded with other particles)



Benchmark Monitoring

- » Sampling to determine a baseline and to evaluate the stormwater system annually thereafter.
- » Sample discharges from drainage basins 1,4, and 5
- » TSS and oil & grease.
- » Monitoring records maintained in Appendix D



Annual Inspection

- » Annual inspection must be conducted by qualified personnel and a member of the PPT
- » Annual inspection must examine all permitted outfalls, areas identified as potential pollutant sources, and stormwater BMPs
- » Record of annual inspection kept in SWPPP Appendix C3



Annual Report

» Annual Report must be submitted using the Georgia EPD Online System (GEOS) https://epd.georgia.gov/geos/



Welcome to Georgia EPD Online System (GEOS) for Permitting, Compliance and Facility Information

Online services offer the convenience of obtaining environmental permits and submitting compliance reports online. It supports the following features:

- Establish a user account and manage all your submittals online;
- · Apply environmental permits, certificates, licenses and other environmental issuances online;
- Submit environmental reports;
- · Monitor processing status of your online submittals;
- Receive e-mail notifications on permitting results;
- Receive e-mail alerts for upcoming reporting obligations;
- Submit requests to revise permits or submit revised reports;
- · Track historical versions of all submittals.

QUIZ 3

1. How often must outfalls be visually observed by PPT leader?

Answer: Quarterly

2. True or False, Benchmark monitoring should be conducted annually.

Answer: True



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