IDDE Program Self-Assessment Center for Watershed Protection, Inc. 2012

Purpose:

One of the main challenges for an Illicit Discharge Detection & Elimination (IDDE) program is to assess the program's existing status and map out a future course and program direction. This assessment is designed to assist program managers with this task. The desired outcome for conducting this self-assessment is to generate short-term and long-term action items to build a more effective program.

How the Program Assessment is Structured

The structure of the assessment builds upon Chapter 3, Auditing Existing Resources and Programs, in *IDDE: A Guidance Manual for Program Development and Technical Assessments* (http://cfpub1.epa.gov/npdes/stormwater/idde.cfm).

The assessment recognizes that each program is in a different stage of development and will evolve and become more sophisticated through time. The questions in each section of the assessment are divided into three subgroups, as follows:

- Group A (Initiating the Program): These assessment questions are most relevant for relatively new programs that are just putting program elements in place. It is strongly recommended that each program strive to accomplish the program elements in Group A by the end of an early NPDES MS4 permit cycle. If your program accomplishes all of the objectives in Group A -- Congratulations. . .and keep going!
- Group B (Enhancing the Program): These assessment questions represent important program enhancements that are necessary for an effective program. All existing programs should evaluate these carefully to determine which are most relevant for local conditions, and strive to incorporate selected elements within subsequent permit cycles.
- **Group C (Advancing the Program):** These questions refer to program elements that can be added as a program develops its funding, staffing, and planning capabilities. The timing for implementation of selected elements varies for each program.

Completing the assessment involves answering the questions for Groups A, B, and C, and identifying specific action items, as appropriate, from each group. Action items from Group A will be priorities for the short-term since these elements are recommended to be established by the end of the current permit cycle. The three groups are not meant to be static. Each program has unique opportunities and conditions, and accordingly, each program will be able to check off items in each of the three groups. For instance, programs operated by a city public works department will look very different than a county program consisting of multiple townships.

How to Complete the Assessment

For many programs, completing the assessment will require involving several staff from different departments. Ideally, the assessment can be completed by a stormwater manager with overall program responsibilities. However, the assessment can also be

used by city or town managers, planning or public works directors and staff, and consultants working on behalf of local programs.

For each section, the assessment involves the following steps:

- First, characterize your jurisdiction's infrastructure, water resources and monitoring in the "Gathering Basic Information" section on Page 1. This information can provide a snapshot of features that might influence the type and extent of your IDDE program.
- 2. For Groups A, B, and C, go through each statement and check off the appropriate box according to whether the element is part of your existing IDDE program.
- 3. Review the items for which you have checked the "NO" box. Consider which of these you would recommend for short-term and long-term actions. For items checked as "NO" in Group A, develop short-term action items and list these under the "Action Items for Next 1 5 Years" at the end of each section. For items checked as "NO" in Groups B and C, evaluate their relevance to your program, and create short or long term action items for the selected elements. Long-term action items should be listed in the "Action Items for Next 5 10 Years" section.
- 4. For any item that is checked as "Don't Know," make identifying the status of that program element a priority action item for Year 1.
- 5. This exercise may best be done with the help of a small internal staff committee. Please note that you are not committing to these actions, but only developing a draft list to inform your program planning and budgeting. For this reason, you may want to list your action items in priority order.
- 6. Since permitted IDDE programs must report on "measurable goals," it is also important to develop or clarify your measurable goals for each section. Measurable goals should be related to the short and long-term action items that you have identified. Additional guidance of measurable goals can be found in Chapter 10 of the IDDE Manual. In the self-assessment, a table is provided below the Action Items in each section with some suggestions for measurable goals. The intention is that you will modify these and add others to suit your program.
- 7. Once you have developed action items and measurable goals, you can use this information to communicate with other departments or decision-makers, help develop your IDDE funding and budgeting plan, and develop goals for your permit renewal documents.

IDDE Program Self Assessment

Gathering Basic Information

The first portion of the self assessment focuses on gathering basic information about the community's infrastructure and general water quality concerns.

Infrastructure Profile						
What is the total area of	the jurisdiction?			ac	res	
What is the total area re	gulated under the MS4	4?		ac	res	
How many miles of stream		ction?				GIS available?
How many miles of storr	m drains exist in the					GIS available?
jurisdiction?						
What total area is service	*					GIS available?
What is the general age	and condition of the					GIS available?
infrastructure?						
How many storm drain of	outfalls exist in the					GIS available?
jurisdiction?						
What total area is service						GIS available?
What total area is service	<u> </u>					GIS available?
What total area is servic	ed by a combined sew	/er				GIS available?
system?	and with water lines on	rnina				GIS available?
What total area is service treated drinking water?	ed with water lines car	rying				GIS available!
What total area is service	end by walle?					GIS available?
Land Use	ed by Wells:					Olo avallable:
% Urban		l	% Ind	ustrial		
% Residential			% Institu			
% Commercial			% Agric			
% Other:			70 Agric	uiturai		
Water						
Identified stream impairr	ments in the jurisdiction	n·		□Bac	teria	
	monto in the junealotio				ogen	
					sphorus	
						Dxygen Demand
					iment	
					vy Metals	
					ticides / H	erbicides
la tha a same manuaitu influen	200d by the tide?			Oth	er:	
Is the community influer If so, is it freshwater or s						
What is the average or r		adviotor	.2			
	ange of depth to groun	idwater	<i>!</i>			
Monitoring						
Does the municipality flu						
Is dry weather outfall wa						
requirement (as oppose		,				
If so, what parameters a	ire required for monito	ring und	der the		monia	
permit?					per	
				☐ pH	nols	
					nperature	
					orine	
					oride	

	☐ Detergents
	☐ Potassium
	☐ Bacteria
	☐ Other:
Programmatic	
Type of Permit	☐ Phase I ☐ Phase II
	☐ CSO ☐ None
Would you describe the current IDDE program more	☐ Proactive ☐ Reactive
Proactive or Reactive?	
Is the sanitary authority part of the jurisdiction rather than a	Den't know
separate entity?	☐Yes ☐No ☐Don't know
How many illicit discharges were detected in the last permit	
cycle?	
How many illicit discharges were successfully tracked to the	
source in the last permit cycle?	
How many illicit discharges were successfully fixed in the	
last permit cycle?	
How many full time employees are dedicated to the IDDE	0
program?	less than 0.5 of an FTE
1 - 3 -	0.5-1
	<u>2-3</u>
	□ >4

Legal Authority & Coordination (LAC)	
GROUP A – Initiating the Program	
LAC.A.1 . Does an illicit discharge ordinance exist?	☐Yes ☐No ☐Don't know
LAC.A.2. Are there other codes and ordinances with potential links to IDDE (check all that apply)?	Fire codes Hazardous waste / spill controls Health codes Industrial stormwater compliance Litter control regulations Nuisance ordinances Plumbing codes Pollution prevention/Good housekeeping (minimum control measure #6 Construction General Permit Restaurant grease regulations Septic system regulations Septic system regulations Sewer / drain ordinances Stormwater ordinance Street / highway codes Other:
LAC.A.3. Is there an existing internal system for tracking and reporting illicit discharge investigation status?	☐Yes ☐No ☐Don't know
LAC.A.4. Is the municipality involved with industrial storm water NPDES permit activities or wastewater pre-treatment programs?	☐Yes ☐No ☐Don't know ☐N/a
LAC.A.5. Does the municipality have clear authority to identify parties responsible for fixing illicit discharges?	☐Yes ☐No ☐Don't know
GROUP B – Enhancing the Program	
LAC.B.1. Does effective inter-departmental coordination and cooperation currently occur (e.g. between stormwater and sanitary departments or stormwater and housing departments)?	☐Yes ☐No ☐Don't know
LAC.B.2. Do staff have private property right-of-entry privileges?	☐Yes ☐No ☐Don't know
LAC.B.3. Does the stormwater department have access to information about future planned infrastructure upgrades (e.g. sewer line extensions or replacements) so that improvements/impairments to water quality can be monitored?	☐Yes ☐No ☐Don't know
GROUP C – Advancing the Program	
LAC.C.1. Does regional collaboration with nearby jurisdictions regarding ordinance language and legal authority exist (i.e., to maintain consistency between jurisdictions that cross watershed boundaries)?	☐Yes ☐No ☐Don't know ☐N/A

LAC.C.2. Is an up-to-date shared tracking system in place for all agencies involved?	□Yes	□No	□Don't know
Mapping Resources (MR)			
GROUP A – Initiating The Program			
MA.A.1. Does the community have or have access to GIS?	□Yes	□No	□Don't know
MA.A.2. Does current GIS data exist for accurate locations of sanitary and storm sewer networks?	□Yes	□No	□Don't know
MA.A.3. Is there a centralized location for these data?	□Yes	□No	□Don't know
MA.A.4. Are digital and hardcopy versions of mapping data readily available?	□Yes	□No	□Don't know
MA.A.5. Are NPDES permittees in the jurisdiction mapped?	∐Yes	□No	□Don't know
GROUP B – Enhancing the Program			
MA.B.1. If watersheds extend beyond the community's boundaries, are GIS data available for neighboring jurisdictions?	∐Yes	□No	□Don't know
MA.B.2. Are handheld GPS devices available to field staff?	∐Yes	□No	□Don't know
MA.B.3. Are sewer and stormwater GIS mapping layers regularly updated?	∐Yes	□No	□Don't know
GROUP C – Advancing the Program			
MA.C.1. Are standard operating procedures in place for updating GIS mapping layers?	□Yes	□No	□Don't know
MA.C.2. Are stormwater and sanitary pipe elevations mapped in the GIS?	□Yes	□No	□Don't know
MA.C.3. Are portable GIS notepads available to staff for use in the field?	□Yes	□No	□Don't know
MA.C.4. Are stormwater hotspots (generating sites) in the jurisdiction mapped?	□Yes	□No	□Don't know
MA.C.5. Are septic systems in the jurisdiction mapped?	□Yes	□No	□Don't know
MA.C.4. Has a GIS-based desktop assessment for illicit discharge potential been completed for the jurisdiction?	∐Yes	□No	□Don't know
Staff Capacity (SC)			
GROUP A – Initiating the Program			
SC.A.1. Who completes outfall field screening for the jurisdiction?	Cons	rshed/Civ	ff ic Groups or Volunteers

SC.A.2. Who completes illicit discharge investigations (pollution tracking efforts) for the jurisdiction?	☐ Jurisdiction staff ☐ Consultants ☐ Other
SC.A.3. Who completes laboratory analysis for the program?	☐ In-house ☐ Analytical laboratory ☐ Local university or institution ☐ Local water or sewer district ☐ Other:
SC.A.4. Are staff trained in field safety procedures?	☐Yes ☐No ☐Don't know
SC.A.5. Are staff trained in lab safety procedures?	☐Yes ☐No ☐Don't know
GROUP B – Enhancing the Program	
SC.B.1. Do IDDE program staff have experience with any of the following (check all that apply)?	 ☐ Water quality monitoring ☐ GIS ☐ Leading field crews ☐ Using field screening kits/equipment ☐ Laboratory procedures
SC.B.2. Are there protocols in place for staff from other departments to report potential illicit discharges?	☐Yes ☐No ☐Don't know
SC.B.3. Do staff have confined space entry training?	☐Yes ☐No ☐Don't know
SC.B.4. Are staff experienced in dye, smoke or video testing?	☐Yes ☐No ☐Don't know
GROUP C – Advancing the Program	
SC.C.1. Do watershed groups assist with IDDE efforts such as outfall screening?	☐Yes ☐No ☐Don't know
SC.C.2. Are staff from other departments cross- trained to identify potential illicit discharges in the field?	☐Yes ☐No ☐Don't know
SC.C.3. Do staff have the capability to	
conduct more sophisticated special studies (e.g. pollution loading for certain types of illicit discharges)?	☐Yes ☐No ☐Don't know
conduct more sophisticated special studies (e.g. pollution loading for certain types of illicit	☐Yes ☐No ☐Don't know
conduct more sophisticated special studies (e.g. pollution loading for certain types of illicit discharges)?	☐Yes ☐No ☐Don't know
conduct more sophisticated special studies (e.g. pollution loading for certain types of illicit discharges)? Internal Tracking and Procedures (ITP)	☐Yes ☐No ☐Don't know ☐Yes ☐No ☐Don't know
conduct more sophisticated special studies (e.g. pollution loading for certain types of illicit discharges)? Internal Tracking and Procedures (ITP) GROUP A – Initiating the Program ITP.A.1. Is an outfall tracking system in place (e.g. internal database for tracking illicit	
conduct more sophisticated special studies (e.g. pollution loading for certain types of illicit discharges)? Internal Tracking and Procedures (ITP) GROUP A – Initiating the Program ITP.A.1. Is an outfall tracking system in place (e.g. internal database for tracking illicit discharge status)?	
conduct more sophisticated special studies (e.g. pollution loading for certain types of illicit discharges)? Internal Tracking and Procedures (ITP) GROUP A – Initiating the Program ITP.A.1. Is an outfall tracking system in place (e.g. internal database for tracking illicit discharge status)? GROUP B – Enhancing the Program ITP.B.1. Are quality control procedures in	□Yes □No □Don't know

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discharges?			
Equipment (Equ.)			
GROUP A – Initiating the Program			
Equ.A.1. Are basic field supplies (e.g. measuring tapes, backpacks, etc.) already owned by the municipality and available for use?	□Yes	□No	□Don't know
Equ.A.2. Is water monitoring equipment (e.g. test kits, probes, handheld meters, etc.) owned by the municipality and available for use?	∐Yes	□No	□Don't know
GROUP B – Enhancing the Program			
Equ.B.1. Does the municipality have, or have access to, smoke testing equipment?	□Yes	□No	□Don't know
Equ.B.2. Are safety and hazardous waste disposal procedures in place?	∐Yes	□No	☐Don't know
GROUP C – Advancing the Program			
Equ.C.1. Does the municipality have, or have access to, a sewer camera?	□Yes	□No	□Don't know
Equ.C.2. Does the municipality have, or have access to, specialized monitoring equipment (e.g. pygmy meter, velocity meter, dye injection equipment)?	∐Yes	□No	□Don't know
Education and Outreach Resources (EOR)			
GROUP A – Initiating the Program			
EOR.A.1. Does the jurisdiction post relevant outreach materials on an Internet website?	□Yes	□No	□Don't know
EOR.A.2. Does the IDDE program make use of regular community events to spread the message about illicit discharge prevention and elimination?	□Yes	□No	□Don't know
EOR.A.3. Do outreach materials on illicit discharges already exist?	□Yes	□No	□Don't know
EOR.A.4. Does the community promote environmentally safe residential car washing products and practices?	∐Yes	□No	□Don't know
EOR.A.5. Does the community provide outreach materials regarding the proper discharge of swimming pool water?	□Yes	□No	□Don't know
GROUP B – Enhancing the Program			
EOR.B.1. Are mechanisms in place to communicate between various agencies in the community, such as public works departments, fire and rescue, building	∐Yes	□No	□Don't know

officials, and commercial property owners?	
EOR.B.2. Does the community have a Fats,	
Oils and Grease (FOG) program to reduce the	☐Yes ☐No ☐Don't know
potential for sanitary sewer overflows through	Tes Livo Don't know
the education of businesses and residents?	
EOR.B.3. Are other groups like parks or	
watershed groups conducting stormwater	☐Yes ☐No ☐Don't know
education or outreach in the community?	
EOR.B.4. Does the community have an illicit	
discharge reporting tool that the public can	DV: DN: DD::201::
use to report water quality problems (e.g.,	☐Yes ☐No ☐Don't know
hotline)?	
GROUP C – Advancing the Program	
EOR.C.1. Are real-time reporting tools (e.g.	
smartphone apps) available for the public to	☐Yes ☐No ☐Don't know
use to report water quality problems?	
EOR.C.2. Does the community use multi-	
media and / or social media to conduct	☐Yes ☐No ☐Don't know
outreach?	
Discharge Removal Canability (DBC)	
Discharge Removal Capability (DRC)	
GROUP A – Initiating the Program	
DRC.A.1. Who currently responds to spills,	Fire Department
overflows and hazardous material	Public Works Department
emergencies?	Hazmat response team
3	Contractor Other:
	- Other.
GROUP B – Enhancing the Program	
DRC.A.2. Is there a response time	
commitment to known and reported	☐Yes ☐No ☐Don't know
problems?	
OROLID C. Advancing the December	
GROUP C – Advancing the Program	
DRC.B.3. Are jurisdiction staff properly	☐ Jurisdiction staff
equipped and trained to repair common types	Contractors
of illicit connections or are contractors on call	None
to perform this service?	Other:
Program Budget and Financing (PBF)	
GROUP A – Initiating the Program	
	Dedicated line item for IDDE
DDE A 4. How is the IDDE was success	Part of overall MS4 budget, but not specific IDDE budge
PBF.A.1. How is the IDDE program	No defined budget
addressed for budgeting purposes?	Don't know
	C Otto
	Other:
PBF.A.2. Is the annual budget for the IDDE	Other:
PBF.A.2. Is the annual budget for the IDDE program sufficient to achieve permit requirements?	☐Yes ☐No ☐Don't know

GROUP B – Enhancing the Program					
PBF.B.1. Are there cost-share arrangements/opportunities available with other departments?	∐Yes	□No	□Don't	know	
PBF.B.2. Are there cost-share arrangements/opportunities available to address illicit discharges in low income areas?	∐Yes	□No	□Don't	know	
PBF.B.3. Does the annual IDDE budget allow for program enhancements such as purchase of better water testing equipment or staff training on latest IDDE methods?	□Yes	□No	□Don't	know	
GROUP C – Advancing the Program					
PBF.C.1. Have grants been awarded to the jurisdiction for special studies associated with watershed restoration?	□Yes	□No	□Don't	know	
Pollution Prevention (PP)					
GROUP A – Initiating the Program					
PP.A.1. Are storm drains stenciled in the jurisdi			□Yes	□No	☐Don't know
PP.A.2. Does the community have oil recycling directory of oil collection stations?	centers	or a	□Yes	□No	☐Don't know
PP.A.3. Does the community host household hat (HHW) collection days?	azardous	s waste	∐Yes	□No	☐Don't know
GROUP B – Enhancing the Program					
PP.B.1. Are business outreach plans for commo business operations in place (e.g., gas stations,	-		∐Yes	□No	☐Don't know
PP.B.2 Are spill prevention and response plans	in place	?	□Yes	□No	☐Don't know
PP.B.3. Do staff conduct site inspections of NP			□Yes □N/a	□No	☐Don't know
PP.B.4. Are jurisdiction-owned/municipal sites phousekeeping measures and have stormwater prevention plans (SWPPPs) in place?		~ ~	∐Yes	□No	□Don't know
PP.B.5. Does the community provide storm dra vac provisions for charity car wash events?	in plug a	ind wet	□Yes	□No	☐Don't know
PP.B.6. Does the community have established solid waste collection facilities?	HHW fa	cilities at	□Yes	□No	☐Don't know
GROUP C – Advancing the Program					
PP.C.1. Has the community conducted a comprassessment of potential stormwater hotspots (p generating sites)?	ollution		□Yes	□No	□Don't know
PP.C.2. Does the community provide curbside of for HHW or waive disposal fees at landfills?	disposal	options	□Yes	□No	☐Don't know
PP.C.3. Does the community have plumbing co discharge of pool water to the sanitary system a unsafe pool discharges?			∐Yes	□No	□Don't know
Goal Setting and Program Evaluation (GSPE)					

GROUP A – Initiating the Program			
GSPE.A.1. Have IDDE program goals (including measurable goals for the MS4 permit) been established for the community?	□Yes □	□No	☐Don't know
GROUP B – Enhancing the Program			
GSPE.B.1. Are IDDE goals revisited annually or with each permit cycle?			
GSPE.B.2. Are individual IDDE program costs accurately tracked (e.g., field, lab, education, enforcement, etc.)?	□Yes □	□No	☐Don't know
GSPE.B.3. Does the community prioritize illicit discharge screening (e.g. based on age of infrastructure, water quality complaints, etc.)?	□Yes □	□No	□Don't know
GROUP C – Advancing the Program			
GSPE.C.1. Are IDDE program strategies linked to receiving water quality?	□Yes □	□No	☐Don't know

Action Item Development

Review the list above. For items checked as "No" in Group A, develop short-term action items based on that component and enter it into the list of action items for the next 1-5 years. For items checked as "No" in Groups B & C, evaluate their relevance to your program and create short or long-term action items for selected elements. For any item that is checked as "Don't Know," make identifying the status of that program element an action item for the following year.

Action Items for Next 1 - 5 Years

1				
•				
•				
4				
_				
Action Ite	ems for Next 5 – 10 Ye	ars.		
•	ems for Next 5 – 10 Ye			
1				
1 2				
1 2 3				

Measurable Goals

Measurable Goal Examples	Date of Completion
Assign a lead department to coordinate IDDE program	Year 1
Develop maps with relevant infrastructure, land use, and water resources information	Year 2
Prioritize areas or subwatersheds for outfall screening	Year 2
Conduct another Program Self-Assessment	Year 2
Secure a dedicated funding mechanism	Year 5