#### Pre-Conference Workshop

# Introduction for New MS4 Coordinators and Elected Officials

Kentucky Stormwater Association Annual Conference, June 2016



Chad McCormick, PE, CFM

Jennifer Herrell, PE, CFM





## Overall Agenda



✓ 1 - Introduction



2 - Program Finance Planning in Uncertain Times

> 3 - Annual Reports: Avoiding the Rush



> 4 - Program Audit Preparedness (EPA IN KY IN 2020)

#### Pre-Conference Workshop

# 3 – Annual Reports: Avoiding the Rush



"... eReporting is changing everything – soon, like next year..."

#### Part 3 - Overview

- " ... eReporting is changing everything soon, like next year..."
- > You're Alone Only if You CHOOSE
- Prepare to write the report in Small Pieces Routinely
- Write the First Report with the SWQMP
- > Annually ADD to the Report
- Be Honest and Forthright with KDOW = EPA about Challenges
- Opportunity to Assess
- Opportunity for Elected Officials



# Annual Reports = Self Audits





Does the Message Match the Data?

### Program Assessment

Level 6: Receiving Waters

Level 5: Improve Stormwater Quality

**Level 4: Reduce Pollutant Loading** 

**Level 3: Changes in Behavior** 

**Level 2: Raise Awareness** 

**Level 1: Activity Measures** 



#### **Correcting Course**

- By 2009, we were facing challenges
  - Elected officials wondered why the City received an NOV and why we needed funding for this program and additional staff
  - Community wasn't aware there was such a thing as MS4
  - Push back from Development Community and a "predator with no teeth"

#### Restoring Elected Official Knowledge

- Hold a workshop when the cameras aren't rolling
- Talk to them one on one
- Find a "champion" or two
- Take them on a tour of your infrastructure
- Develop a business plan
- They won't understand the permit requirements, so remind them of the O&M needs





#### What Shelbyville is working on now

- Computerized record management
- Continue Mapping Impervious areas
- Stormwater Master Plan
- Water Quality Monitoring Plan
- TMDL???
- Funding Source User fee / Utility ???

#### KDOW Review – August 21, 2017

- August 21, 2017
- ~3hr Interviews and Inspections
- No Enforcement Actions nor Major Deficiencies
- Some Areas to Improve
  - No Surprises
  - Already Working On Them
  - Mayor and City Council Already Aware

#### ADVICE – BE HONEST AND UPFRONT

#### KDOW Coordination = Trust

### Annual Reports

- Compliance is NOT Evaluated by the Weight of the Report
- Avoid the Paperwork Avalanche for "LIP"
- > Be Thorough, but Concise
- > Highlight Problems
  - Control the Discussion
  - Show Competence



### KDOW Coordination = Trust

### Annual Reports

- Compliance is NOT Evaluated by the Weight of the Report
- Avoid the Paperwork Avalanche for "LIP"
- > Be Thorough, but Concise
- > Highlight Problems
  - Control the Discussion
  - Show Competence
- > First Chance to Assert Compliance



## Annual Permit Compliance Report

#### Kentucky Division of Water

#### GENERAL PERMIT ANNUAL COMPLIANCE REPORT.

Phase II Stormwater MS4 Kentucky Division of Water

#### NOTE:

- In order to comply with KPDES sMS4 permits, annual reports must be submitted to the Kentucky Division of Water.
- · Please type or print in ink.
- Please answer all questions thoroughly and return the form by the due date.
- Return this form and any required addenda to the KDOW MS4 Coordinator at the address listed in the box on the upper-right.
- For 2010 Annual Report only, report is due by March 1, 2011.

#### For questions regarding this form, contact:

ENERGY AND ENVIRONMENT CABINET DEPARTMENT FOR ENVIRONMENTAL PROTECTION Division of Water

200 Fair Oaks Lane, 4th Floor Frankfort, KY 40601

Phone: (502) 564-8158, Extension 4891 Web Access: http://water.ky.gov

## REPORTING YEAR (Check one) 2008 2009 2010 2011 2011

PART A: GENERAL INFORMATION – MS4 OPERATOR							
1.	. Report Completed By:  (MS4 Operator—i.e., name of permit holder)						
2.	. Permit Number: K Y G 2						
3. Mailing Address Street Address:							
	City Zip: County Of: Other		County:				

ш	otner							
PART B: GENERAL INFORMATION – CONTACT PERSON								
4.	Contact PersonName (please print):							
5.	Contact PersonTitle:							
6.	Phone Number:							
7.	FacsimileNumber (if applicable):							
8.	E-mail Address (if applicable):							



#### Elected Official Certification Signature

#### PART E: CERTIFICATION AND SIGNATURE

► The individual completing this report, listed in "PART A: GENERAL INFORMATION – MS4 OPERATOR" must sign the following certification statement:

"By signing this annual report, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

	Type or Print Name:			
SA	Signature:		 Date:	



### **Annual Reporting**

#### <u>Current</u>

- > PDF of a Hard Copy
- ➤ Tell Your Story
- Pick Your Format
- Goes to KDOW (Abby Rains)
- EPA Asks When They Want It
- Public Can Ask For Copy

#### As Soon As Next Year

- > EPA Directed Format
- > All Online
- KDOW Sees at Same Time as EPA
- Increase Public Access



#### Checklists: SWQMP

- > Commitments You Made
- Generically Written Leaves Open to Interpretations
  - Specific Goals
    - Measurable
    - Easily Documented
  - Specific Timelines



### Checklists: MS4 Permit

- > KDOW View:
  - Your Approved SWQMP will Satisfy the MS4 Permit
- > EPA & Others' View
  - Don't have to Have Same Perspective as KDOW





#### Checklists: KDOW Checklist

- > Focused: Important to Abby
- > Review of Regulatory Authority
- > The Reality of Being Able to Implement A Viable Program
- > A Short-Version of EPA's Checklist
- > Test Against Annual Report
- Usually Doesn't Involve Field Verification



## Prepare the Documentation Organization

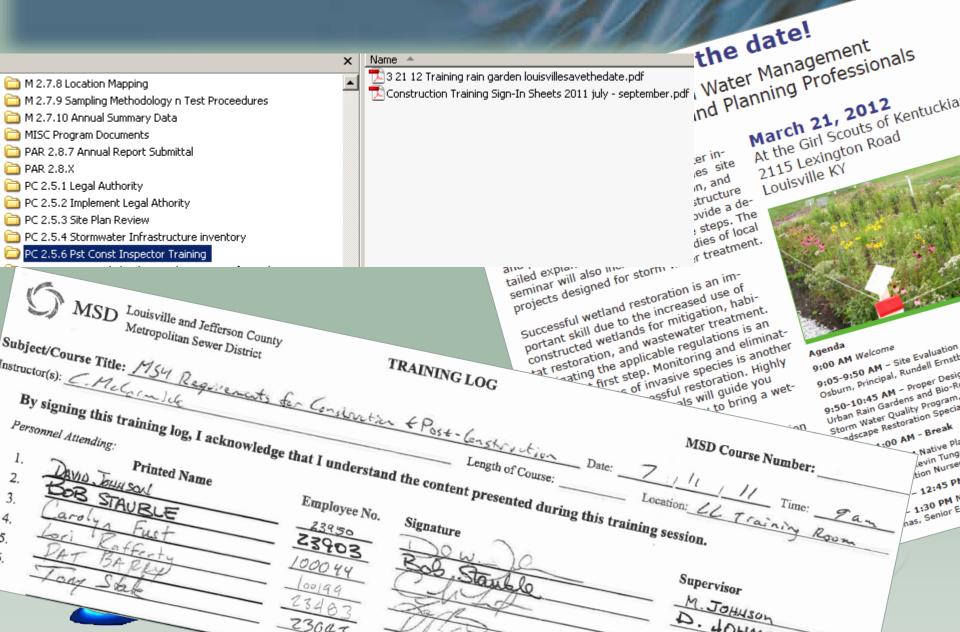
- 딘 🧀 0 2011-2016 Compliance Library CS 2.4.1 Legal Authority CS 2.4.2 Implement Legal Authority CS 2.4.3 Site Plan Review ⊕ CS 2.4.4 Inspection protocols expectations proceedures ⊕ CS 2.4.5 Construction Site Inspection Frequency ⊕ CS 2.4.6 Construction Site Inventory ⊕ 🗀 CS 2.4.7 BMP Guidance Materials ⊕ CS 2.4.8 SWPPP Requirements ⊕ CS 2.4.9 Construction Inspector Annual Refresher ⊕ CS 2.4.10 Construction Inspector Training (MSD) ⊕ CS 2.4.11 Plan Preparers Reviewers Training (MSD n JCPS) ⊕ CS 2.4.12 Local Utility Const General Permit Entitiles ⊕ CS 2.4.13 MSD general Const Permit Evaluations ⊕ CS 2.4.15 Plan Development Process ID ⊕ CS 2.4.16 Metro IFPL Enf Coordination 🛨 🧀 GHP2 2.6.1 Facility SWPPPs 🛨 🧀 GHP2 2.6.2 SWPPP Training E 🗀 IDDE 2.2 SWQMP DDE 2.2.1 Legal Control Authority idde 2,2,2 Source Inv Elim SOP 🗀 IDDE 2.2.3 Public IDDE Report DDE 2.2.4 DW Screening iDDE 2.2.5 DW Screen Follow up
- > Ways to Organize:
  - Electronic Cabinets
  - Paper Files & Folders
  - Confirmation Emails
- > Make it easy to Find
- Match to Permit / SWQMP
- > Number Tasks

### Compliance Library

- Stormwater
  - 1 MS4 PERMIT KYS000001 COMPLIANCE
    - ∄ 🛅 0 2011-2016 Compliance Library
    - 🛨 🧀 0 Stormwater Program components
    - 🗎 1 Permits
    - 2 SWQMP DOCUMENTS
    - a Annual Reports
    - 🗀 4 Codes Ordinances & Standards
    - 🗀 5 KDOW Audit
    - a 6 CIP Planning N MGT
  - 🛨 🚞 2 BMPs Green Infrastruc & LID
- 🖃 🧀 3 Regulations and Guidance
  - Court Cases
  - and Endangered Species Act ESA
  - iga EPA COMPLIANCE GUIDE 2007
  - 🧀 ЕРА Materials
  - 🛅 Kentucky

- > Final Products
- > PDFs
- > PPTs
- Logs and Notes
- > Not Working **Files**
- > For Full Permit Term

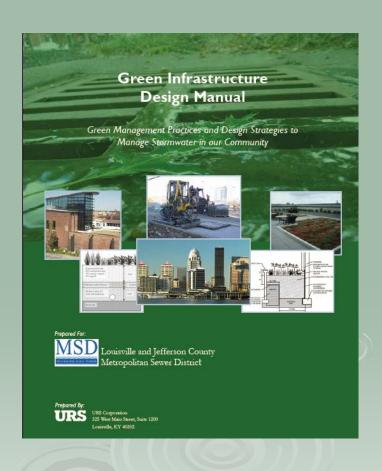
#### Documentation



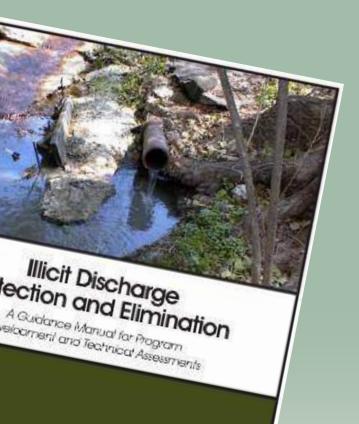
#### Behind the PC-Ordinance: Guidance Materials & Standards

- > Put Developers on Fair Ground
- Protect Staff from "Judgment Calls"
- Protect Elected
   Officials from
   Unanswered
   Political
   Pressure





### Important Documents



- > MOUs, SOPs
- > IDDE, EPSC & GMP
  Manuals
- Ordinances, resolutions, codes, and other legal authority
- Construction site project files
- > Databases
- Meeting Sign Up Sheets / Training Logs

#### Final Thoughts

The most important thing to keep in mind...

- Keep a good working relationship with KY DOW
  - Be Honest
  - Communicate your status regularly and ask for advice
  - Abby is there to help
    - I have found you get credit for "trying"

## Thank you Questions? Call us!

Chad McCormick, PE, CFM Jennifer Herrell, PE, CFM



Land Design and Development, Inc.
503Washburn Ave
Louisville, KY 40222
(502) 426-9374
(502) 724-9356 Cell
mccormick@ldd-inc.com



City of Shelbyville
Public Works Department
787 Kentucky Street
Shelbyville, KY 40065
(502) 633-1094
(502) 633-5481 fax
jpherrell@mw.twcbc.com

#### Pre-Conference Workshop

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## Overall Agenda



2 – Program Finance
Planning in Uncertain Times

√ 3 – Annual Reports:

Avoiding the Rush

4 - Program Audit
 Preparedness
 (EPA IN KY IN 2020)

#### Pre-Conference Workshop

# 4 – Program Audit Preparedness



(EPA IN KY IN 2020)

#### Purpose

## Get you out of an Audit or Program Review



Keep a deficiency from showing up in an Audit

#### Purpose

## Help you know what to expect

Offer approaches to prepare



Introduce you to people and resources

## Ways to Look at an MS4 Audit?

- > ... my ticket to a lost election / job
- > ... "enviro nuts" taking over the world
- > ... a witch hunt
- > ... an unfunded mandate to be justified
- > ... a way to justify more staff
- > ... an unlikely event
- > ... something for consultant to do for me



## Other Ways to Look at a Review / Audit

- > I'll be Prepared Whenever it Happens
- Preparation will Require Some Thought, Communication, Cooperation and Effort
- Preparation will Require Good Daily Habits
- > Can Confirm Your Doing a Nice Job
- > An Opportunity to Learn and Grow



### First Things First

- > Understand Context
- > What are Priorities
- Identify Strengths and Vulnerabilities

- Who has been Reviewed in Last 2-Years?
- > Who has been Audited?
- >EPA in KY in 2020





#### KDOW MS4 Review History

- > 20% of Communities Each Year
  - At Least One Phase I Permit Holder
  - Several Phase II Permit Holders
- Nearly All Receive Improvement Suggestions
- > 10-30% Get Some Sort of Enforcement Warning
- Some Show a Good Job
- > Some Put on Show of a Good Job



## Part 4 - Objectives

- > Identify Trust Building Opportunities
- > EPA Audit Versus KDOW Review
- > Know the Questions
- Know the Boundaries
- > Prepare Involved Parties
- > Prepare the Documentation
- > Self Audits
- Louisville MSD Case Study
- > Louisville Program Changes



## Self Audits





Does the Message Match the Data?

### Self Audit Benefits



- Assess
   compliance of a stormwater
   program
- Determine if additional resources are needed
  - Staff
  - Funding

#### Self Audit/Assessment

- Other Good Reasons
- Remove Surprises
  (Protect Your Elected Officials)
- > Budget Pressures
  - 3<sup>rd</sup> Party Highlight Needs
  - Highlight Needs vs Wants
- Coordinating or Team Efforts
  - Justify For or Against
  - Identify Gaps Others Can Help Cover



#### Self Audit Basics

- Review Program: SWQMP-Annual Report
- Compile Paperwork
- > Use EPA's guide and/or Abby's
- > Conduct the "Audit", Interviews, forms
- > Summarize Results (2 Pages)
- > Write <a href="DRAFT">DRAFT</a> Report and Distribute
  - Mayor/Judge Executive
  - Finance Director



### Why DRAFT Audit Summary

- > Public or Working Document
- Simple phrases may be misinterpreted or have unintended consequences
  - Political
  - Economic
  - Compliance
- > Avoid Pitfall Terms
- Chance to Prepare Elected Officials
  - Protect Them From Surprises



#### Pitfall Terms

#### **Pitfall Terms**

- ➤ All
- Every
- > It is
- > There was
- "John Doe" violated
- There was an illicit discharge

#### Alternatives To Consider

- Some, many, most
- A majority
- It appears
- Observations indicate
- There may have been
- There was a confirmed violation at
- There were signs of a potential illicit discharge



### Using EPA's Guide in Your Self-Audit

- Chapter 4 Detailed on-site evaluations
- Review the "common activities" for each program area
- > Check out the Resources and Tips
- Read evaluation questions for each program component
- Review "common issues identified during program evaluations"



#### **Audit Timelines**

- > Self audit can take 1-3 days
  - In-office
  - Field
- Include those that might not know that they are part of the program
  - Schools
  - Fire Department
  - Street Department
  - Solid Waste Department



# EPA Audits / KDOW Reviews



#### KDOW Coordination = Trust

#### Problem Management

- Known Problems can be Negotiated
- Hidden Problems Lead to Mistrust and Enforcement
- > Half-truth is Insulting and Destructive
- Collaboration Guaranteed IF Backed by Real Effort

KSA

#### Compliance Enforcement

- > Violations
  - Warning
  - Notice of Violation
  - Consent Decree
- > Civil penalties

KSA

- Fines up to \$32,500 per day
- Each day is a separate violation
- Criminal penalties
  - Can include imprisonment; e.g., failure to get a permit, falsifying reports, pattern of permit violations

**Sometimes Good Sometimes Bad** 



#### When EPSC Plans Fail

Who will KDOW enforce upon?





#### **Enforcement Trends**

#### <u>Historically</u>

- Local Developer has site issues
- City doesn't use full extent of local authority
- KDOW
  Enforcement on
  Developer

#### Current KY & Others

- Local Developer has site issues
- City doesn't use full extent of local authority
- KDOW
  Enforcement on
  Developer
- KDOW Enforcement on MS4



### EPA / KDOW / Public

- > Cleaner streams
- > Cleaner streets
- Less visible pollution
- One agency/person for response to problems





### EPA's Strategy For Audits

- EPA 2007 Compliance Monitoring Strategy
  - Phase I MS4s Audits conducted of all Phase I MS4s once every 5 years
  - Phase II MS4s Audits conducted as necessary to determine compliance with strategy by 2014



# First Things First .... Summary

- > Take a Breadth ...
- Only a Heavy Enforcement if Problems/Challenges are:
  - Hidden
  - Not Discussed
  - Under-exaggerated
- Your Not the First and Won't be the Last
- > Accountability is Increasing and Real



# EPA Audit Versus KDOW Review



### EPA Audit Versus KDOW Review

#### EPA Audit

- > 3-5 Days Min
- > Lots of Interviews
- > Every Answer Confirmed:
  - Other Interviews
  - Documentation
- No Question is Out of Bounds -Entire Program
- Highest Scrutiny short of Deposition
  - Deficiencies not always noted immediately

#### KDOW Review

- > 1-2 Days
- Some Interviews
- Customized to KY Programs
- Constructive and Program Building
- Problems immediately noted



### Permit Program Administration

- Required by Clean Water Act
- Kentucky Division of Water Issues & Enforces Permits
- EPA Enforces in Every State and U.S. Territories
- > Not An OPTION





**Division of Water** 



#### KDOW Coordination = Trust

#### Problem Management

- Known Problems can be Negotiated
- Hidden Problems Lead to Mistrust and Enforcement
- > Half-truth is Insulting and Destructive
- Collaboration Guaranteed IF Backed by Real Effort



### **Know the Questions**



#### Know the Questions

> Hiden in Open View

- Auditor Specific List
- > EPA Standard Checklist
- > KDOW Checklist
- > MS4 Permit
- > SWQMP
- > Annual Report





### Checklists: Annual Report

Should be Simple Comparison to Other Lists

- > Commitments Made
- > Under-commitments Made



#### **Know the Boundaries**



### Know the Boundaries – Start with SWQMP

- Stormwater Quality Management Plan
- > 5-Year Business Plan
- Permit Negotiation Tool
- > Compliance Points Define
  - Who, What, When
  - How (sometimes)





### Checklists: EPA "Standard" Checklist

#### > EPA-833-R-07-003

#### MS4 Program Evaluation Guidance

#### U.S. Environmental Protection Agency Office of Wastewater Management

Comments on this guide should be directed to:

Jenny Molloy U.S. EPA Water Permits Division (202) 564-1939 Molloy Jennifer@epa.gov

January 2007 - Field test version

EPA-833-R-07-003

#### CONTENTS

Introduction and Background     Overview
1.2 Regulatory Overview
2.         Pre-Evaluation Preparation.           2.1         Evaluation Goals and Benefits.           2.2         Advance Preparation.           2.3         Materials to Review Before the Evaluation.           2.4         Annual Report Reviews.
3.         Conducting a Screening-Level Evaluation           3.1         Screening-level procedures           3.2         Common screening-level questions           3.3         Screening-level evaluation follow-up
4.         Conducting a Detailed On-Site Evaluation           4.1         Program Management           4.2         Public Education and Participation           4.3         MS4 Maintenance Activities           4.4         Construction Activities           4.5         Post-Construction Controls           4.6         Industrial Commercial Facilities           4.7         Illicit Discharge Detection and Elimination
5. Post-Evaluation Activities 5.1 Preparing the Written Report 5.2 Follow-Up Activities
Appendix A – Glossary & Acronyms
Appendix B – Program Evaluation Worksheets
Appendix C - Field Inspection Worksheets
A Ji- D. D A J.D A



January 2007 i EPA-833-R-07-003



### EPA's Program Evaluation Guide Includes:

- > Examples of "what to look for":
  - Documentation
  - Observations
  - Checklists



### Checklists: EPA "Standard" Checklist

- > Appendix
  - A Glossary & Acronyms
  - B Program Evaluation Worksheets
  - C Field Inspection Worksheets
  - D Reviewing Annual Report

http://www.epa.gov/npdes/pubs/ms4guid e\_appendicesb-d.pdf



### **EPA Worksheets Identify**

- Major Topics Your Self Audit Should Address
- The Questions an EPA Auditor May Ask
- Documents Should have in MS4 Program
- Use the Worksheets to Identify Improvements
- May or May Not Be Requirements



#### Checklists: Auditor Specific List

- > Focus on that Person's Preferences
- Great Ideas They Want Repeated Elsewhere
- > May or May Not be Requirements
- Greatest Opportunity for Free Mentoring





#### When EPSC Plans Fail

"Show me the Fines and Receipts"





#### **Know the Boundaries**

- > SWQMP is Starting Point
  - What you Think Can be Done
  - How you Proposed to Do it
  - When you Promised it will be Accomplished
- > SWQMP Defines Your MEP



#### **Know the Boundaries**

- > Permit Sets the Minimum
  - In Kentucky: Accepted SWQMPs Rule
  - Elsewhere w/ EPA:
    - Even if SWQMP is Inadequate
    - Even if State Doesn't Provide Feedback on Extensions



# Interpretations of Maximum Extent Practicable (MEP) CWA Section 402(p)(3)(B)

Permits for discharge from municipal storm sewers shall require controls to the maximum extent practicable, including management practices, control techniques and system, design and engineering methods, and such other provisions as the Administrator or the State determines appropriate for the control of such pollutants.



### Interpretations of Maximum Extent Practicable (MEP)

CWA Section 402(p)(3)(B)

### Permit Holders >Permits for discharge from municipal

- Permits for discharge from municipal storm sewers shall require controls to the maximum extent practicable,
  - including
    - management practices,
    - control techniques and system, design and engineering methods,
    - and such other provisions as the Administrator or the State determines appropriate for the control of such pollutants.



# Interpretations of Maximum Extent Practicable (MEP)

CWA Section 402(p)(3)(B)

# PA & 3rd Parties Permits for discharge from municipal storm sewers shall require controls to the maximum extent practicable, including management practices, control techniques and system, design and engineering methods,



and such other provisions as the Administrator or the State determines appropriate for the control of such pollutants.

Must or May?

# Prepare Involved Parties



# Prepare Involved Parties



- Primary Contact: MS4 Coordinator
- > Inspectors
- > Plan Reviewers
- > Legal
- > Finance
- Elected Officials / Chief Executive
- Consultants / Vendors

# Prepare the Involved Parties

- > Realize they are Involved
- > Familiar with Their Role(s)
- > What to Expect:
  - When Interviewed
  - Questions to Be Asked
  - Time Commitment



# Prepare the Documentation



# Prepare the Documentation Confirming Trust

- ➤ If it is Not Documented "it Didn't Happen"
- > Perception Becomes Reality
- > Misperception Becomes Reality
- > "If You Can't Document, then:
  - "It Must be a Lie"
  - "Your Covering Things Up"



# Prepare the Documentation Organization

- 딘 🧀 0 2011-2016 Compliance Library CS 2.4.1 Legal Authority CS 2.4.2 Implement Legal Authority CS 2.4.3 Site Plan Review ⊕ CS 2.4.4 Inspection protocols expectations proceedures ⊕ CS 2.4.5 Construction Site Inspection Frequency ⊕ CS 2.4.6 Construction Site Inventory ⊕ 🗀 CS 2.4.7 BMP Guidance Materials ⊕ CS 2.4.8 SWPPP Requirements ⊕ CS 2.4.9 Construction Inspector Annual Refresher ⊕ CS 2.4.10 Construction Inspector Training (MSD) ⊕ CS 2.4.11 Plan Preparers Reviewers Training (MSD n JCPS) ⊕ CS 2.4.12 Local Utility Const General Permit Entitiies ⊕ CS 2.4.15 Plan Development Process ID ⊕ CS 2.4.16 Metro IFPL Enf Coordination 🛨 🧀 GHP2 2.6.1 Facility SWPPPs 🛨 🧀 GHP2 2.6.2 SWPPP Training E 🗀 IDDE 2.2 SWQMP DDE 2.2.1 Legal Control Authority idde 2,2,2 Source Inv Elim SOP 🗀 IDDE 2.2.3 Public IDDE Report DDE 2.2.4 DW Screening iDDE 2.2.5 DW Screen Follow ....
- > Ways to Organize:
  - Electronic Cabinets
  - Paper Files & Folders
  - Confirmation Emails
- > Make it easy to Find
- Match to Permit / SWQMP
- > Number Tasks

# Another Motive for Documentation Organization

- 티 🧀 0 2011-2016 Compliance Library CS 2.4.1 Legal Authority CS 2.4.2 Implement Legal Authority CS 2.4.3 Site Plan Review ⊕ CS 2.4.4 Inspection protocols expectations proceedures ⊕ CS 2.4.6 Construction Site Inventory ⊕ 🗀 CS 2.4.7 BMP Guidance Materials ⊕ CS 2.4.8 SWPPP Requirements CS 2.4.9 Construction Inspector Annual Refresher ⊕ CS 2.4.10 Construction Inspector Training (MSD) ⊕ CS 2.4.11 Plan Preparers Reviewers Training (MSD n JCPS) ⊕ CS 2.4.12 Local Utility Const General Permit Entitiles ⊕ CS 2.4.13 MSD general Const Permit Evaluations ⊕ 🗀 CS 2.4.14 Enforcement Tracking Log Database ⊕ CS 2.4.15 Plan Development Process ID ⊕ CS 2.4.16 Metro IFPL Enf Coordination 🛨 🧀 GHP2 2.6.1 Facility SWPPPs 🛨 🧀 GHP2 2.6.2 SWPPP Training E 🛅 IDDE 2.2 SWQMP DDE 2.2.1 Legal Control Authority idde 2,2,2 Source Inv Elim SOP 🗀 IDDE 2.2.3 Public IDDE Report DDE 2.2.4 DW Screening iDDE 2.2.5 DW Screen Follow ....
- Quick Replies Build Trust
- Delayed Responses
   Give Time To
   Speculate
   Non-Compliance

# Important Documents

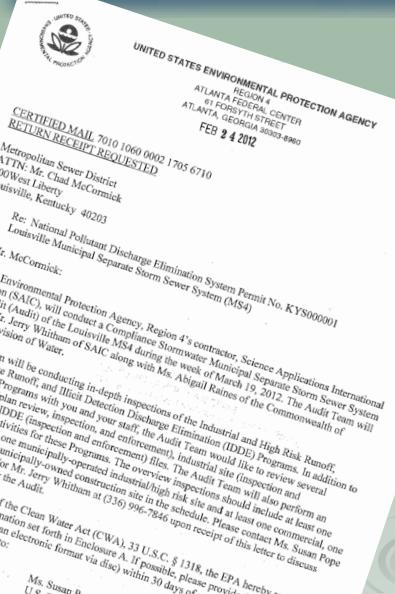
- > Outreach Materials & Brochures
- > Fact Sheets
- > Posters
- > Newspaper Articles
- > Presentations & Agendas
- > Public notices
- Drainage & Outfall map
- > Facility SWPPPs



# Louisville MSD Case Study



# Hello, You're on speaker phone...



- December 2011
- > January 2012
- > February 2012
- EPA is planning a "Compliance Audit"...
- Please send the following... within 30 days

# Planning the Audit

- Just Received Scathing State Audit Accounting and Fiduciary
- > KDOW Encouraged 1-Month Delay
- Hosting March Madness
- Inspector Couldn't Find Hotel
- Permit Effective August 2011
  - Still in First Permit Year
  - Not Many Requirements Due Yet



### **Our Auditors**

- > Abby Rains, KDOW
- > Jerry Whittum, SAIC
  - Contract Inspector
  - Very Experienced
  - Straight Forward and Fair
- > A Lot of Time to Overthink
  - Can We Get a Fair Inspection from a Contractor?
  - Will MSD-SAIC History Come Into Play?
  - "Great!! Another Glowing Audit"



### Pre- and Post- Questioning

- > Sites Visits NOT a Start Nor End
- Case Study: EPA Audit of Louisville
  - Call in December
  - Letter February 2012 w/ Data Request
    - Multiple email and Phone Requests
  - Interviews March 2012
  - Through December 2012 Multiple email and Phone Requests
  - Official Response April 2013



### Before the Visit

- > Provide
  - Interlocal Agreements
  - Ordinances
- > Stated Focus
  - Industrial
  - IDDE
  - Construction
- Formal Data Requests
- > Lots of Calls for More Data
  - Construction & Industrial Inspections

173/613



### ORDINANCE Jefferson Fiscal Court

An Ordinance Relating To:

AN CROIMANCE REPEALING CHAPTER 159 OF THE JEFFERSON COUNTY, KRNTUCKY CODE OF OMBINANCES AND ADOPTING A NEW CHAPTER 159 RELATING TO EROSION PREVENTION AND SECTIONS CONTROL.

INTRODUCED 9-11-01 BY COMBISSIONER TAPER
FIRST READING 9-13-01
SECOND READING 9-24-01
ADOPTED 9-25-01 BY GRANINGHIS VOTE



## The Week of the Visit

- Interviews and Field Visits from 8:01 am through 6-8:00 pm
- > AM: Interviews
- > PM: Field Interview
- Late PM: EPA Checklist, SWQMP and his personal list



### First Interview

- New Executive Director
- > Chief Engineer Director
- > Regulatory Director
- > Me
- > EPA Inspector
  - Introductions
  - Purpose, Plan and Focus





## After the Visit

- Six Weeks Lots of Calls and Emails Requesting Data
  - Copies of Inspection Reports
  - Enforcement Follow-up
- Six Months A few emails confirming various activities
- > After: Silence ... Speculation, Concern, Calm, Panic ... Silence



## The Results are in:



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

S ENVIRONMENTAL PROTECTI REGION 4 ATLANTA FEDERAL CENTER 61 FORSYTH STREET ATLANTA, GEORGIA 30303-8960

MAR 2 9 2013

CERTIFIED MAIL 7012 1010 0001 8097 4137 RETURN RECEIPT REQUESTED

Metropolitan Sewer District Attn: Mr. Chad McCormick 700 West Liberty Street Louisville, Kentucky 40203

Re: Kentucky Pollutant Discharge Elimination System Permit No. KYS000001 ear Mr. McConnick:

closed is a copy of the inspection report for the Kentucky Pollutant Discharge Elimination System

Advantage of the inspection report for the Kentucky Pollutant Discharge Elimination System

Company Course, Contage of the inspection of March 10. losed is a copy of the inspection report for the Kentucky Pollutant Discharge Elimination System

int (KPDES) Municipal Separate Storm Sewer System (MS4) inspection conducted on March 19-22,

Annihologiana International Comparation on behalf of the ILS Environmental nit (KPDES) Municipal Separate Storm Sewer System (MS4) inspection conducted on March 1

by the Science Applications International Corporation, on behalf of the U.S. Environmental

Record on the increasion findings this office required a regrouped with by the Science Applications International Corporation, on behalf of the U.S. Environmental General of the International Corporation, on behalf of the U.S. Environmental General of this laster in record to enacific symmetric from the ineraction renort nertaining to: raion Agency, Region 4. Based on the inspection findings, this office requests a response within the inspection report pertaining to:

The Metropolitan Sewer District (MSD) and the co-permittees have not ensured the inter-local The Metropoutan Sewer District (MSD) and the co-permittees have not ensured the intergreenents (Memorandum of Understanding) have been maintained in effect. The MSD
and a limit district of the MSD industrial elements. greements (Memorandum of Understanding) have been maintained in effect. The MSD of the maintained in effect of the maintained in effect. The MSD of the maintained in the constraint and elimination (IDDE), industrial stomwater, and entire in the constraint entire areas of Difficultion of the construction of the constr d construction stormwater inspection and emorcement activities in the co-permittee areas. Terson County, but does not have the legal authority to operate those programs in the constraint of the MSD continues to implement the IDDE, industrial stormwater, and antique antique and antique an nitice jurisdictions. If the MSD continues to implement the IDDE, industrial stormwater inspections and enforcement for the IDDE, industrial stormwater, and anthority specified in the KPDES MSA permit.

PDES MS4 Permit requires the MSD to develop industrial inspection and enforcement PDES M84 Permit requires the M8D to develop industrial inspection and entorcement ures. The M8D developed a preliminary but not a complete set of inspection procedures.

D has not developed and implemented a formalized set of criteria and/or procedures for view of your MS4 Annual Report dated December 28, 2012, it appears that the above

- > 13-Months Later
- > Need New SOPs for Industrial and Construction Inspection and Enforcement
- Renew Interlocal Agreements with Co-**Permit Holders**
- > Full Report had many other suggestions

# Louisville MSD Program Changes



### Industrial

- > Expanded Industrial Inspections
- No New Regulation, but Minor Updates to Clarify purpose and Access
- Primary Industrial Regulation Dates Back to 1980's Sewer Explosion



### Industrial

- NEW Inspector Standard Operating Procedures (SOPs)
- > 3<sup>rd</sup> Party Inspector Refresher Training
  - Review Requirements
  - Mentor and Encourage
  - NOT Inspector Audit
  - Increase Consistency



## Construction

- Expanded Inspector Standard Operating Procedures (SOPs)
- > 3<sup>rd</sup> Party Inspector Refresher Training
  - Review Requirements
  - Mentor and Encourage
  - NOT Inspector Audit
  - Increase Consistency



# Transition to Green Infrastructure Requirements

➤ MSD Starts Green Infrastructure 2009\* Need **LEARN** More > MSD Incentivizes Private Green 2011 Need **LEARN** More

> MSD Requires Private Green 2013

**KSA** 

# Green Incentives

- > Green Incentive Program
  - Started August2011
  - Stipend:
     Short-term
     Incentive
  - Credit: Long-term Incentive







# Post-Construction Regulation: How Detailed?





ville and Jefferson County opolism Sewer District

- > 6 New Pages
- Process
  - Plan Approval
  - Site Disturbance Permit
  - Construction Inspection
  - Enabled Bonds
- O&M Agreement
- Qualified Inspector Program
- Enable Fee-in-Lieu Program
  - In Design: Likely 2014 Startup
- Enable Standard and Details per Design Manual
  - Routinely Updated per Chief Engineer

# GMP Manual: Agreements



Green Management Practices (GMP)

18.11 Stormwater Quality Maintenance Agreement

### STORMWATER QUALITY MAINTENANCE AGREEMENT

BETWEEN TH

### LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT

ANTE

PERTAINING TO:

### LONG-TERM OPERATION AND MAINTENANCE RESPONSIBILITIES

THIS MEMORANDUM OF AGR	EEMENT ("MOA"), made and	entered into on this the	of
of 20 ("Effective Date") by and be	etween the Louisville and Jeffers	on County Metropolitan Sewe	r District ("MSD"), 700
West Liberty Street, Louisville,	Kentucky 40203, and		("Property Owner"),
	, Louisville, Kentucky 402, (M	ISD and Property Owner here	inafter referred to as the
"Parties").			

### WITNESSETH:

WHEREAS, MSD is a public body corporate and political subdivision organized pursuant to Chapter 76 of the Kentucky Revised Statutes whose primary responsibilities are the operation, maintenance, and regulation of public and private sewers and drains, and the discharge of waste and waters into the sewer system; and

WHEREAS, MSD has statutory and regulatory authority to undertake projects to improve the public sewer and drainage system, which includes green infrastructure best management practices (also known as Green Best Management Practices (BMPs or GMPs) or long-term stormwater quality controls) for the purpose of managing the inflow of storm water nmoff pollutants into the Combined Sewer System and/or Municipal Separate Storm Sewer System as is required of Louisville, MSD and its co-permittees through Kentucky Pollutant Discharge Elimination System Permit KYS000001; and

WHEREAS, the Property Owner's proposed green infrastructure practices are required to operate over the long-term use of the property in order to reduce runoff into the public Combined Sewer System and/or runoff pollutants into the public Municipal Separate Storm Sewer System.

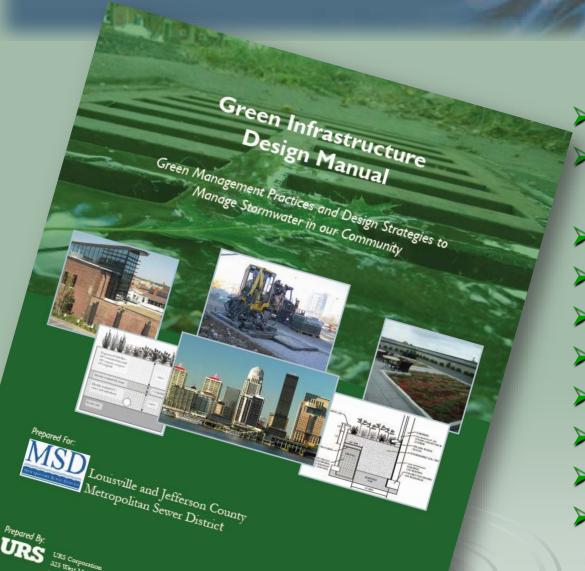
NOW THEREFORE, in consideration of the promises and mutual covenants contained herein, and other good and valuable consideration, the Parties hereto agree as follows:

(1)	PROJECT SCOPE OWNER AND LOCATION: The Property is owned by; zoned as
	; being operated as a; and, is required to implement green
	infrastructure best management practices at its property located at, Louisville,
	Kentucky ("the Property"); and the Property Owner agrees to and shall construct and install green infrastructure at the
	Property consisting of the green infrastructure best management practices (BMPs) set forth in "Exhibit A" attached
	hereto, which Exhibit is hereby incorporated into and made a part of this Agreement ("the Project") as if fully set forth
	The Party of the P

### > Stipends

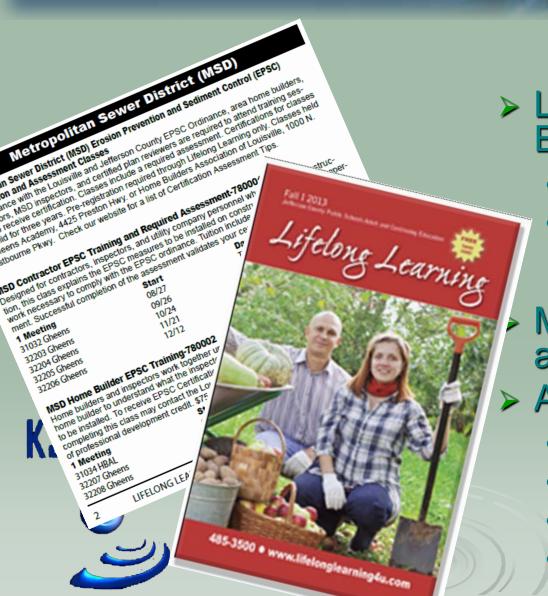
- Green Construction
   Reimbursements
- One Time, 10-yr closure
- > Credit
  - Monthly Bill Discount
  - 10-yr renewable
- Everybody / General
  - Indefinite

### Green Infrastructure Guidance



- > 2011 New
- 2013 Expanded
- Planning / Strategy
- > Selection
- > Design
- > Operation
- > Maintenance
- > Inspection
- > Checklists and Aids
- Examples and Guides

# Post-Construction Qualified Inspection



Long History / Experience

- EPSC Courses
- Public School System Adult Lifelong Learning Program (ALLP)
- MSD Provides Content and Instructor
- > ALLP Provides:
  - Administration
  - Fee Collection
  - Advertising
  - Registration Reminders

# Thank you Questions? Call us!

Chad McCormick, PE, CFM Jennifer Herrell, PE, CFM



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