

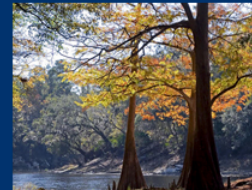
Training attended by John Wylie & Richard Scherle



Florida Department of Environmental Protection NPDES Stormwater Program

Palm Beach County Permittees - Phase I MS4 Group Meeting

June 11, 2019





Examples & File Sharing

DEP FTP Site

- [ftp://ftp.dep.state.fl.us/pub/NPDES Stormwater](ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater)
- Examples of different approaches to compliance with many of the permit requirements are posted at above site.
- Continuously posting good examples submitted by permittees, FREQUENTLY CHECK ftp site.
- Folders and files can be copied/downloaded into your PC's browser, and can be copied/uploaded onto the ftp site.



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Assessment Program

Status: ALL permittee's Assessment Programs Approved as of June 6, 2019.

- Various approaches Yr. 2 AR reporting of 'assessment program data/results'
 - Positive aspect: tailoring approach & conclusions to priorities/challenges;
 - NO proscribed approach, allows flexibility.
- As evaluate results for each AR reporting, keep in mind purpose of Program:
 - Purpose Program: provide information for permittee evaluate effectiveness of SWMP in reducing stormwater pollutant loadings from the MS4;
 - Second goal: Determine areas MS4 require additional reductions;
 - Then adjust BMPs for reduction discharge pollutants to MEP.



Assessment Program

- Required to be evaluated for reissuance (Part V.B.5.a & b):
 - Identify water quality and/or pollutant loading improvements or degradation;
 - Determine if program provides data to assess effectiveness of SWMP;
 - IF NOT, identify additional assessment elements required.
- Annual reporting - progress generating info. above elements.
- **Gauge of successful Assessment Program:**
 - **Achievement, or minimally progress, addressing these tasks exhibited at reissuance.**



Common Deficiencies - AR

AR Section VII, Part III.A.1

- Incomplete/Inaccurate structural control inventories:
 - Reporting conveyance swales as treatment swales.
- Not reporting TOTAL number inspections per structure.
- Not meeting treatment inspection frequency requirements:
 - Missing inspections Major Outfalls;
 - Where required inspection frequency not met for structural controls, Required attach explanation why required frequency was not met.



Common Deficiencies - AR (cont.)

AR Section VII, Part III.A.1

- Table for inventory & inspections has requirement & contents for attachment when minimum inspection frequencies not met.
- Two elements required in the explanation attachment:
 1. Explanation why required minimum inspection frequency was not met; and
 2. Corrective actions ensure minimum inspection frequencies achieved in future reporting periods

	Major outfalls Weirs or other control structures pipes / culverts (miles) Canals Inlets / catch basins / grates Ditches / conveyance swales (miles)
	If the minimum inspection frequencies set forth in Table II.A.1.a. were not met, provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.



Common Deficiencies - AR (cont.)

Example of Adequate Explanation for Deficiency Meeting Minimum Inspection Frequencies :

C4Y1 Annual Report Supplemental Attachment

Explanation of Deficient Inspection Frequency

Introduction/description of apparent deficiency

The City of Winter Park has four active alum stations (listed below) in the structural controls inventory.

- Rollins (Virginia N.)
- Morse Blvd
- Webster Ave
- Courtland (Mizell)

The minimum frequency prescribed for alum station inspections is monthly. During any given permit year, this frequency would result in a total of 48 inspections for the four stations. The city's annual report indicated that 19 inspections were actually performed resulting in an apparent deficiency of 29 inspections.

Reasons for reduced inspection frequency

The conditions described below resulted in the minimum inspection frequency for alum injection stations not being met for Year 1.

- During Permit Year 1, two of these stations (Morse and Courtland) were offline for the entire reporting period while major repairs and upgrades were designed, and performed. The process has continued into Year 2 and should be completed by early year 3.
- There were also several problems with sensors at the remaining two stations that resulted in them being taken offline for extended periods of time.

Proposed Remedial Action

Section 1.6 of the City's Stormwater Management Standard Operating Procedure was revised to provide guidelines for when alum stations may inspections may be eliminated and to provide documentation procedures showing that the reduced frequency was justified and that it was approved by the appropriate city staff. A copy of the revised S.O.P. is attached and has been distributed to the appropriate staff.



Common Deficiencies (cont.)

- AR Section VII, Part III.A.9 – Construction Inspections:
 - Not meeting construction site required inspection frequency ;
 - Minimum three inspections every active construction site (pre, during & post).
- Ensure inspectors are attending training, retain documentation of attendance.
- Improper AR Entry of N/A [Pet Complaint in EPA Review]
 - Guide: if required reporting of activity, enter “0” if none to report;
 - Permit required activity considered applicable to the MS4.
 - Can always include explanatory narrative in ‘Comments’ column;
 - Certain entries N/A acceptable (e.g. Section II).



Common Deficiency - Code Review

Review of New Development/Redevelopment Codes & Regulations

- Required Year 2 (Part III.A.2): Conduct **review of local codes/regulations to identify potential changes reduce stormwater impacts of new development & redevelopment.**
- Summary report:
 - Focus review on changes promote low impact design/green infrastructure;
 - Identification of codes/regulations reviewed;
 - Conclusions on need/intent to consider potential codes/regulations changes.
 - Description techniques, aimed at reducing the stormwater impacts especially LID/green infrastructure, recommended for possible future incorporation;
 - Summary Report of review to include Recommended/proposed changes for future incorporation into permittee's codes/regulations; and
 - Plan for implementing potential changes to codes and regulations.



Common Deficiency - Code Review (cont.)

Common Deficiency in Review for Potential Changes to Codes:

- Roughly half dozen of submitted Codes Reviews are incomplete & require revision/re-submittal.
- Incomplete - NO Review, only inclusion of text of codes.
- Summary Report of Review NOT INCLUDE conclusion on need/intent for potential changes to codes/regulations.
- Examples of effective & complete Codes Review Summary Reports: North Palm Beach, Glen Ridge & Tequesta.



Upcoming Requirements for Yr. 3

Part V.A. - Annual Loadings & Event Mean Concentrations

- Summary report requires:
 1. Each permittee provide estimates of the average annual pollutant loading for six pollutants;
 2. Table average annual pollutant loadings & EMCs;
 3. Compare current cycle's pollutant loadings with those from previous cycle's Year 3 Annual Report;
 4. "Based on this comparison, indicate whether pollutant loadings are increasing or decreasing "



Requirements for Yr. 3 (cont.)

Part V.A. - Annual Loadings & Event Mean Concentrations (cont.)

Important Include Load Reduction Activities to Maximum Extent Capable as Component of Summary report :

- Include BMP load reductions actual/design treatment efficiency (esp. MS4 treatment ponds);
- Consider include street sweeping nutrient reductions for TP & TN;
- Inclusion load reductions achieved addressing TMDL required reductions in WLAs;
- Any other load reductions info. resulting from Assessment Program activities.
- Annual pollutant loading/reduction estimates generated should be used as tool in Assess Program:
 - Directly demonstrates effectiveness of SWMP reduction pollutants discharged.



Requested Topic #1

What reports (Assessment Program results) were acceptable & where improvements may be needed (Part VI.B.3 reporting).

- Part V.B.3.b: ID required content of Program results discussion:
 - Summary monitoring data &/or stormwater pollutant loading changes from the reporting year;
 - Results must be specific to each permittee's SWMP.
- No proscribed approaches to accomplish discussion of assessment program results;
- Effective approaches measured by useful information for evaluating achieving goal of Program;
- Permit requires following to be evaluated for reissuance (Part V.B.5.a & b):
 - Identify evidence of water quality &/or pollutant loading improvements or degradation over permit period;
 - Determine if program provides data to assess effectiveness of SWMP in reducing stormwater pollutant loadings.



Requested Topic #1 (cont.)

- Good elements to consider incorporating into discussion of results & development of conclusions:
 - Pollutant load reductions & trends captured in 'Pollutant loadings' estimates Part V.A. (generated by SWMP/BMP treatment activities);
 - Can Relate results to impairment downstream of MS4 discharges/outfall, vital for MS4s discharging to TMDL waters;
- Important monitoring & pollutant reduction data to include in Assessment Program results report (AR Section III):
 - TN & TP load reductions generated by 'Street Sweeping' activities & reported in AR Part III.A.3 Roadways;
 - Pollutant load reductions generated by SWMP/BMP treatment activities;
 - Is sufficient information generated address objective 'effectiveness of MS4's reduction of pollutants discharged;
 - Do results provide information for evaluating if SWMP improvements needed.



Requested Topic #1 (cont.)

- **Acceptable Assessment Program results reporting: demonstrates progress in generating info. for required elements (Part V.B.5.a & b):**
 - Identify evidence of water quality &/or pollutant loading improvements or degradation over permit period;
 - Address if Program provides data to assess effectiveness of SWMP in reducing stormwater pollutant loadings.
- Examples of different approaches to the Program are posted at following site:
ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/Phase_I_MS4s/Examples/V.B_AssesmentProgram_Cycle%204/
- Continuously posting good examples submitted by permittees, FREQUENTLY CHECK ftp site or inquire.



Requested Topic #2

Which permit requirement you feel is the most important, & how permittees can "get it right."

- Tough to select only one of the Numerous requirements in permit;
- Several requirements essential to achieve successful permit implementation;
- Ranking dependent on perspective:
 - Greatest challenge in achieving permit compliance;
 - Of most benefit to permittee's MS4 effectiveness; or
 - Most beneficial in demonstrating primary objective of permit: "MS4's reduction of pollutants discharged to MEP".



Requested Topic #2 (cont.)

Two requirements most important demonstrating primary objective of permit: “MS4’s reduction of pollutants discharged to MEP”:

- Addressing impairments with TMDL, Part VIII Activities;
 - **Directly quantifies MS4 reduction in pollutants discharged from MS4;**
- More commonly applicable permit requirement is successful implementation of Part V ‘Monitoring & Assessment’ activities.

Successful development & implementation of an Assessment Program:

- First cycle requirement implemented:
 - Still developing conclusions on most effective approaches & elements, until review Yr. 4 reporting;
 - Success in providing adequate info. to evaluate effectiveness MS4’s SWMP.



Requested Topic #2 (cont.)

How to "get it right" development & implementation of Assessment Program (cont.):

- Purposely not prescribe how utilize required Program elements in providing info. evaluate SWMP effectiveness, allows for:
 - Targeting to MS4 needs/priorities;
 - Flexibility, innovation & creativity in ways address required elements; &
 - Various approaches may be Equally Successful achieving goal of determining effectiveness of SWMP in reducing stormwater pollutants discharged from MS4".



Requested Topic #2 (cont.)

How to "get it right" (cont.)

- Permit requires following be evaluated by submittal of Assessment Program for reissuance (Part V.B.5.a & b):
 - Identify evidence of water quality &/or pollutant loading improvements or degradation over permit period;
 - Determine if program provides data to assess effectiveness of SWMP in reducing stormwater pollutant loadings.
- **Measure of getting this requirement right = permittee's achievement, or minimally progress, in effectively addressing two tasks above at reissuance.**



Questions

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