

CLEAN STREAMS

HEALTHY NEIGHBORHOODS

Indianapolis Stormwater Design and Construction Specifications Manual

Upper White River Watershed Alliance
Central Indiana Water Quality Workshop
January 22, 2009



INDIANAPOLIS
CLEAN STREAM TEAM

We're not done yet.

Any Questions?

Indy Stormwater Design Manual

Major modifications address:

- Downstream impacts of developing properties
- Redevelopment standards
- Maintenance responsibility
- Water quality

Other modifications:

- Administrative “clean up”
- Create green infrastructure documents and review mechanisms

Downstream Impacts of Developing Properties

When is detention analysis required?

- Staff report that this Issue is often misconstrued
- City's intent is not being realized in many projects proposed by developers/engineers which avoid detention
- Downstream capacity analysis is often missing
- Clarification: City's intention remains that detention and downstream analysis are requirements for all drainage permit submittals

Redevelopment Standards

Existing Conditions

- Currently there is no definition of “existing” conditions
- Recommendation: existing conditions are the conditions that existed 12 months prior to permit application

Consistency

- Currently there are different criteria that determine when detention and water quality controls are required
- Recommendation: require both at ½ acre land disturbance

Redevelopment Standards

Green Incentives

- Currently there are no specific incentives to encourage the use of “green” development techniques in redevelopment areas
- Green development can provide numerous benefits to water quality as well as cost effectively meeting site design standards
- Recommendation: develop a supplemental document that provides information on low impact and green development options and identify manual revisions that will encourage use

Shameless Advertisement

**Green Infrastructure Supplemental
LID Redesign Case Study & Side-by-Side
Design Examples - LID vs. Conventional -**

Heather Williams & Mark Everett, AMEC

1:30 PM – Veterans Hall 2

Maintenance Responsibility

Maintenance on Private Property

- Confusion about maintenance responsibility for stormwater infrastructure is common
- Recommendation: modify Chapter 561 (stormwater ordinance) to clarify that easements, including legal drain easements, do not alter the responsibility for the owner to provide maintenance

Operations & Maintenance (O&M) Manual

- O&M manuals were required for water quality BMPs only
- Recommendation: require O&M manuals for all stormwater infrastructure and record O&M agreements with property

Water Quality Requirements

Total Suspended Solids Control

- Confusion as to whether the adopted 80% removal goal was for each storm or for the annual load
- Requirement was established as average annual for all preapproved BMPs
- New innovative BMPs will be evaluated on a storm event basis to provide consistency on new BMPs

Floatable Control

- Floatable control is a requirement of the City's NPDES permit, however, it is not required in the stormwater design criteria
- Recommendation: require post-construction floatable control in all stormwater permits

Additional Comments from External Review Committee

1. Requested clarifications to revised text {pictures, diagrams, charts, etc}
2. Establish procedures for stormwater quality unit reviews and pre-approvals
3. How will cumulative 0.5 acre impervious area be implemented?
4. How will multiple BMPs be inspected on a single property?
5. Will floatable control be for all site or those only requiring water quality reviews?
6. Clarifications of some minimal pipe material specifications

Questions?

For additional questions contact:

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