

RTDF Fall Meeting Groundwater Surface Water Workshop

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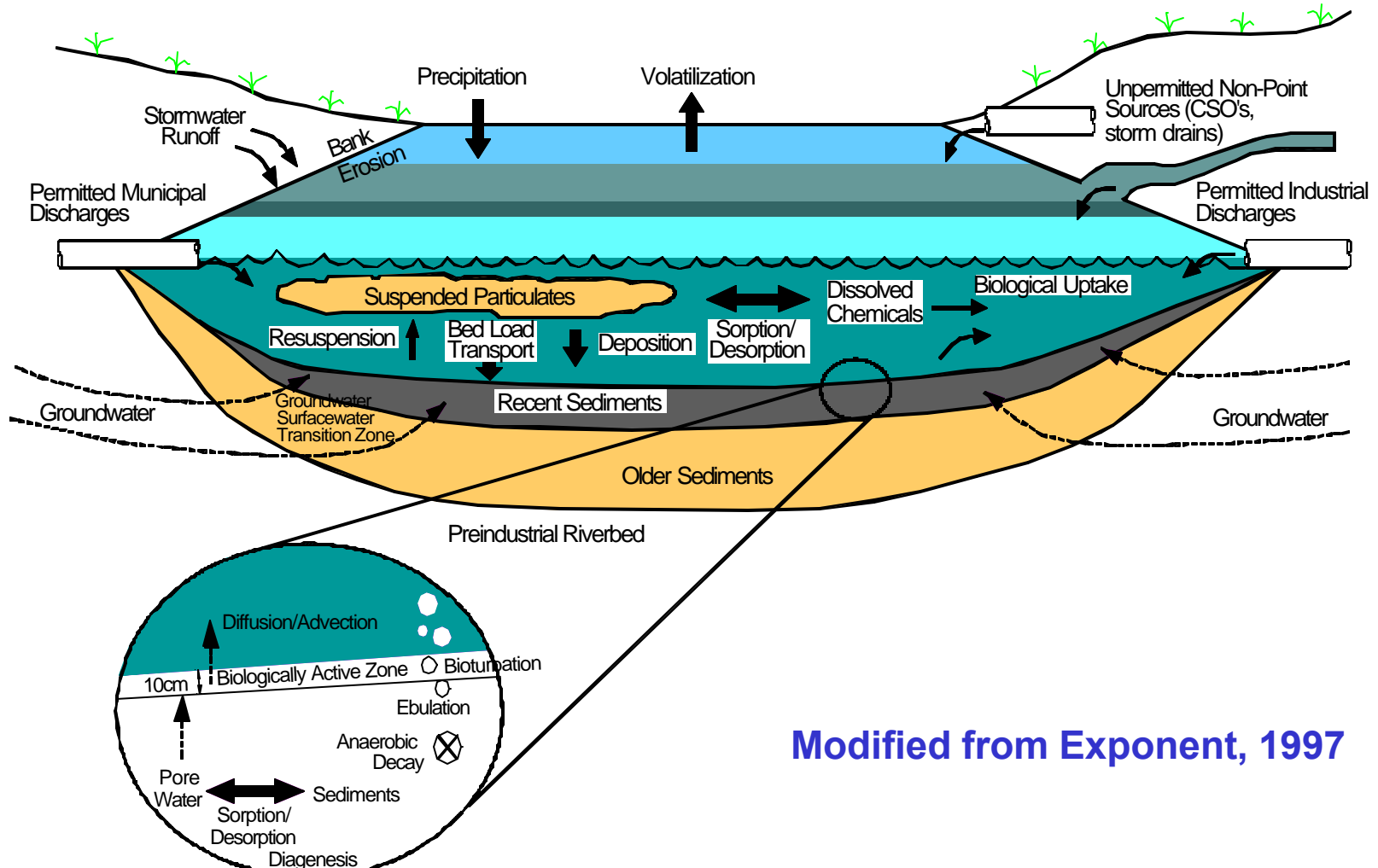
Why this Workshop?

- RTDF Membership voted for it
- Compliance with Environmental Indicators and potential Ecological Indicators
- Interaction may present unique considerations when evaluating remedial alternatives

GOALS

- Develop conceptual models that can be used for assessment and remediation
- Identify pragmatic tiered approaches to evaluation of impact
- Identify areas of consensus among disciplines
- Identify (innovative) remediation technologies

Conceptual Schematic - Surface Water System Processes



Focus: GW, SW and Sediments between

Some Questions for the Workshop

- Conceptual Models
 - Are there one or more conceptual models that can be used to test hypotheses about GW impact to the environment?
 - What are the significant physical, chemical and biological parameters that should be considered?
 - What role does natural attenuation play in GW-SW interaction?
 - Are there environmental settings where generally GW-SW interaction is crucial? Where it is insignificant?

Some Questions for the Workshop

- Assessment

- Is there a hierarchy of screening methods to streamline the assessment process?
- Can a plume de minimus zone be defined in relation to the surface water size/habitat?
- How important are GW “hot spots”
- How do you separate GW impacts from other sources?
- Can you quickly determine the relative significance of GW compared to other watershed contributions

Workshop Process

- Presentations on specific environmental setting
- 30 minute discussion
 - Conceptual Models (integrate hydrodynamics, ecology, biogeochemistry)
 - Confounding factors
 - Assessment Tools/ Tiered Approaches
 - Remediation alternatives
 - No Action
 - Natural Recovery
 - Amended Caps
 - GW treatment or containment
- Last Day Final Session - consensus issues