Questions for Discussion
Green PlanIT TAC Conference Call
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July 2, 2014

Recommendation from TAC meeting
- Further improve sediment calibration if possible
  - Success criterion: 70% of measured

Proposed actions
- Review recently identified additional SSC data in reservoir outfalls
- Review WA SWMM model on sediment simulation
- Further tweak model parameters
  - Check rating curves and possibly adjust
  - Adjust parameters in Buildup and Washoff functions

High Leverage Tool – Model calibration

Modeling Tool Discussion
- Recommendation from TAC meeting
  - Further improve sediment calibration if possible
    - Success criterion: 70% of measured

- Proposed actions
  - Review recently identified additional SSC data in reservoir outfalls
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Focus on three key decisions for tool development

- Environmental goal
- LID types
- LID cost estimation

What do we target?

- Hydromodification - Flow volume or peak reduction?
- WQ improvement - which POCs?

What are the desired reduction goal?

- Could test full range – 0% to 100%
- Use a specific goal to constrain simulation
Key Decision – LID types

- Five LID types in SWMM, which ones should be included for optimization?
  - Bioretention
  - Porous Pavement
  - Infiltration Trench
  - Rain Barrel
  - Vegetative Swale

- Grey Infrastructure (regional facility)
  - Should we consider?
  - What type? Enlarged bioretention with storage?

Key Decision – LID cost

- Key to optimal solution

- Unit cost approach
  - Total cost (construction, design, O & M cost) vary by the number and type of LIDs

- How to derive a realistic cost function?
  - Local cost data for LIDs
  - Build some reality into cost function – use weighting factors to differ cost, i.e. inside Caltrain planning area
  - Other suggestions?