



MEETING SUMMARY

PROJECT: Roger Williams Park
DATE: July 15, 2011
TIME: 9:30 AM – 2:00 PM
LOCATION: Roger Williams Park
PRESENT: Tom Ardito (NBEP), Margherita Pryor (EPA), Bob McMahon (PPD), Brian Kuchar (HW), Hannah Carlson (HW), Charles Strobel (EPA), Scott Ribas (RIDEM), Lesley Lambert (NBEP), Holly Ewald (UPP)

A meeting was held at the Roger Williams Park at 9:30 AM on Tuesday July 12th to perform a site walk to identify stormwater problem spots and retrofit opportunities. Prior to walking the site the following topics related to the Roger Williams Park Ponds Water Quality Management Project were discussed:

- Additional Pond Sampling
- Revised Project Schedule
- Possible Fish Ladder
- Fish Tissue Sampling

The following is a brief meeting summary that highlights the major items discussed, agreed upon action items, and a numbered list of the sites identified during the site walk.

Summary:

Additional Pond Sampling

- Additional water sampling was discussed with Charlie Strobel the following samples will be taken:
 - Phosphorus samples
 - Sediment core sampling
- Charlie suggests taking additional samples at outfalls and middle of the ponds for comparison.
- Charlie discussed connection between Deep Spring and Cunliff
 - Pipe put in 50's-60's
- Bob stated that dredging occurred on Roosevelt, Willow and Polo ponds and dredged materials went to the overflow parking area for the zoo. Bob provided plan to show the dredging depths and location of dredged material.

Project Schedule

- Brian distributed a revised project schedule that outlined the future meetings and goals for a completion date by the end of 2012

Fish Ladder

- Tom mentioned the Final Master Plan should include mention of a fish passage at outlet at Elm Lake as a potential future project.

Fish Tissue Sampling:

- Discussed identifying parts of the fish that various ethnic groups eat to target parts that should be ground and sampled.

Action Items:

- HW is to provide water sampling locations to Charles Strobel identifying additional sampling location based upon storm water outfall.
 - Deadline: 2 Weeks
- HW to scan dredging plans and post to FTP Site
- HW to continue research outlet pipe from Mashapaug to Roosevelt with RIDOT
- Loon to coordinate additional sampling with EPA (Charlie Strobel)
 - Provide sampling containers
- Bob to provide additional plans for parking lots, sewer and any soils information

Following the meeting, a site walk was conducted between 10 AM and 2 PM by Tom Ardito and Bob McMahon to identify possible retrofit locations. The items numbered below correspond to the attached site plan depicting the numbered site locations.

Site Identification (see attached Site Plan):

1. Boathouse – water's edge
 - Plant buffer
 - Short plants to maintain visibility
 - Potential education
2. Catch Basins/Depression on road by Carousel
 - Bioretention
 - Catch Basin across from Carousel could capture runoff from Carousel Area-intercept pipe before it enters Willow Lake
 - All CBs could use hoods – oil/grease separators
3. Carousel Roof
 - Intercept downspouts to planters
 - Japanese garden (potential in-water BMP)
4. Erosion on hill with gravel path
5. Raingarden by stream in Japanese Garden
6. Roosevelt Lake – across from Monument
 - Remove one of the two roads across from the monument
 - Erosion on far side of road
 - Bioretention/buffer plantings by pond
 - Maintain specific areas for access to the water's edge

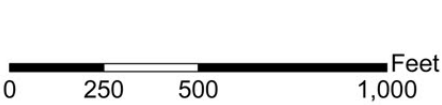
- Joel Booden (Park Landscape Architect), contact for info on view sheds
 - Include other water fowl controls such as fencing within the planting
 - Pond is shallow
7. Outlet at Roosevelt Lake
 - Remove/fill in the “dead end” in southwestern area of pond where debris collects
 - 48” outlet pipe
 - Use Route 10 off ramp open space as area for sediment forebay/treatment
 - DOT could take over construction/maintenance in this area
 - This site is “off-the-table” within the timeframe of this grant
 - This area could provide a wet vegetated treatment system (WVTS)
 8. Path Landscaped Triangle Island
 - Potential outreach project
 - Raingarden
 9. Path/Hillside Erosion
 - Erosion control
 - Soil amendments
 10. Shoreline Planting
 - New seed mix with mowing regiment
 - Buffer planting
 - Low maintenance
 11. Erosion on Stairs/Path
 12. Erosion under ornamental bridge
 - Terraced swale
 13. Seal House
 - Outreach/Education
 - Holly mentioned using geese fencing as a potential art/education component.
 14. Catch Basins on north side of Roosevelt Lake
 - Potential bioretention
 15. Lawn Hill Down to Polo Lake
 - Intercept road CB pipes into bioretention area, outlet to Polo
 - Elevations suitable for a diversion structure to a bioretention area
 16. Hillside Erosion
 17. Geese Feeding Area by Polo Lake
 - Road flumes into bioretention areas
 - No CB runoff from road flows overland
 - Buffer planting
 - Remove benches
 - Maintain specific access points to water
 - Geese control measures
 18. Spillway to Polo
 - Diversion to treatment along pond edge
 - Space is a concern in this location
 19. Erosion on side of Polo Lake
 - Buffer planting
 - Geese control
 20. Side of Willow lake by Bridge
 - Planting area
 21. Overflowing drainage manhole by Willow Lake
 - Blockage

22. Path Intersection by Willow Lake
 - Bioretention
23. Road Curbing
 - Remove
24. Wide Road
 - Pavement Reduction
25. Temple of Music shoreline
 - Shoreline at monument is wall that could be kept and rebuilt
 - Not many geese by wall
 - Shoreline further down- buffer planting
26. Boat Ramp
 - Buffer planting
27. Fish Passage at Elm Lake
 - Stream bank restoration
 - Buffer planting
 - Fish ladder
28. Road Intersection of Beachmont, Edgewood and FC Greene Memorial Blvd.
 - 2 Outfalls from road CBs to pond
 - Pavement reduction
 - Bioretention off road to the east
 - Bioretention on pond side of Blvd
 - Flume in from road or redirect pipes
 - WVTS
29. Existing Concrete Swale
 - Potentially a big watershed
 - WVTS
 - CBs need maintenance
 - Terraced swale
30. Steep hill off Blvd. and Man-made canal at Pleasure Lake
 - CBs outlet to stream and pond
 - Man-made canal has standing water with duckweed
 - Intercept pipes to bioretention area
31. Outlet by zoo parking back entrance
 - 2 large CBs from road drain to outlet
 - Filled with sediment
 - Thick vegetation
32. Existing wet depression by end of zoo overflow parking
 - Standing water
 - Eroded swale along road to wetland
 - Inlet/outlet to other side of parking lot

The above meeting summary constitutes the general understanding by Horsley Witten Group, Inc. of the meeting content. Please advise this office of any errors or omissions.



Roger Williams Park Ponds — Sites Visited



- Catch Basin
- Culvert
- Paved drainage swale

- Sidewalk
- Road

① Site Visited

Data from City of Providence GIS: Catch basins, roads, sidewalks, culverts and paved drains.
Aerial imagery from 2008 Digital Aerial Photography (Pictometric Licensed Image)
Coordinate System: NAD83, Rhode Island State Plane feet

