



**Working Group Name: Water**

**Meeting Date: January 10, 2011, 6 – 8:30 pm**

**Meeting Location: 441 4<sup>th</sup> Street, NW, Rm 1114**

**Attendees:**

|                  |                   |                  |
|------------------|-------------------|------------------|
| Prisca Weems     | Andy Oetman       | Harriette Phelps |
| Bill Brower      | Alex Shtogren     | Maureen McGowan  |
| Kevin Caillouet  | Collin Burrell    | Co-chair         |
| Ram Y. Uppuluri  | Laura Rydland     | Steve Saari      |
| Margo Street     | Cathy Wiss        | Co-chair         |
| Emilie Stander   | Andrew Sorfas     | Dan Guilbeault   |
| Norissa Giangola | Meredith Upchurch | SDC staff        |

**Main Points/Discussion:**

1. Explanation of Goals and Actions

- Facilitators defined goals and actions for group:
  - *Goals* develop a bridge between the vision and specific actions. This creates objectives that we should be striving for in the short, medium, and long term.
  - *Actions* are specific steps that can be taken to help achieve goals.

2. Development of Goals and Actions

- Group first brainstormed goals for approximately an hour (see list attached)
- Later, group broke into three smaller groups to attached actions to proposed goals as appropriate (see list attached).

3. Review of Vision from Last Meeting

- The group discussed vision statements and decided on Statement 1, which was the winner of the online voting:
  - All water falling in and flowing through DC must be clean and fully accessible to support a livable, healthy, innovative, and economically viable community that sets a standard for the world to follow.

**Date for next meeting:** Wednesday, January 25<sup>th</sup>, 6:30 to 8:30 pm

**Location for next meeting:** 441 4<sup>th</sup> Street, NW, Rm 1114

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**Questions? Email** Dan Guilbeault at [dan.guilbeault@dc.gov](mailto:dan.guilbeault@dc.gov), Maureen McGowan at [Maureen.McGowan@dcwater.com](mailto:Maureen.McGowan@dcwater.com) or Steve Saari at [steve.saari@dc.gov](mailto:steve.saari@dc.gov).

## Glossary

- 1. MS4** (Municipal Separate Storm Sewer System): a publicly owned conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that directs stormwater to waterways.
- 2. Grey Water** (not universally agreed upon): leftover water from baths, showers, hand basins and washing machines only
- 3. Black Water:** wastewater containing fecal matter and urine
- 4. Rainwater Harvesting:** Collecting water-from a roof, driveway, or other hard surface during a rainfall-and channeling it into a rain barrel or other container to be saved for use in landscaping or in the household.
- 5. Impervious:** not permitting penetration or passage (water in this context)
- 6. Combined Sewer Overflow (CSO):** Direct discharge into a body of water of wastewater and stormwater from a sewer system that collects sanitary sewage and stormwater runoff in a single pipe system.
- 7. Combined Sewer System (CSS):** A sewer system that combines stormwater runoff and sanitary sewage into one pipe that is directed to a wastewater treatment plant.
- 8. Triple Bottom Line (abbreviated as TBL or 3BL, and also known as people, planet, profit or the three pillars):** captures an expanded spectrum of values and criteria for measuring.
- 9. Living Machine:** A system that uses living plants and beneficial microorganisms to turn wastewater into clean water.

## Resources

- 1. DC Clean Rivers Project:**  
<http://www.dewater.com/workzones/projects/longtermcontrolplan.cfm>
- 2. Anacostia 2032 Plan:**  
[http://ddoe.dc.gov/ddoe/lib/ddoe/wqd/tmdl\\_reports/anacostia/Anacostia2032.pdf](http://ddoe.dc.gov/ddoe/lib/ddoe/wqd/tmdl_reports/anacostia/Anacostia2032.pdf)
- 3. Municipal Separate Storm Sewer System (MS4) Permit:**  
[http://www.epa.gov/reg3wapd/pdf/pdf\\_npdes/Wastewater/DC/DCMS4permit2011.pdf](http://www.epa.gov/reg3wapd/pdf/pdf_npdes/Wastewater/DC/DCMS4permit2011.pdf)
- 4. Recently Approved TMDLs:** <http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,497444.asp>
- 5. Total Maximum Daily Loads of Trash for Anacostia River Watershed:**  
[http://ddoe.dc.gov/ddoe/frames.asp?doc=/ddoe/lib/ddoe/services/pdf/Final\\_Anacostia\\_Trash\\_TMDL.pdf](http://ddoe.dc.gov/ddoe/frames.asp?doc=/ddoe/lib/ddoe/services/pdf/Final_Anacostia_Trash_TMDL.pdf)
- 6. Chesapeake Bay TMDL:** <http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,502029.asp>
- 7. Anacostia Watershed Restoration Plan:** <http://www.anacostia.net/plan.html>
- 8. DDOE Watershed Implementation Plans:**  
<http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,501875.asp>
- 9. 2011 DC Appleseed Report, A New Day for the Anacostia: A Model for Urban River Revitalization**  
[http://www.dcappleseed.org/library/DC%20Appleseed\\_A%20New%20Day%20for%20the%20Anacostia%20Report.pdf](http://www.dcappleseed.org/library/DC%20Appleseed_A%20New%20Day%20for%20the%20Anacostia%20Report.pdf)

**Sustainable DC Water Working Group  
DRAFT Actions and Goals**

| <b>CATEGORY</b>         | <b>GOALS</b>   | <b>ACTIONS</b>   |
|-------------------------|--|--|
| Buildings & Development | Demonstrate and test best practices through District Gov. pilot projects | All District government irrigation/watering done with grey water   |
| Buildings & Development | Demonstrate and test best practices through District Gov. pilot projects | District government buildings reduce water use by ___ percent ideally distinguishing reduction by activity (e.g. irrigation, bathrooms, cleaning)  |
| Buildings & Development | Demonstrate and test best practices through District Gov. pilot projects | Use Walter Reed (or other remaining large parcels available for redevelopment) as special demonstration project  |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | 50% of structures in historic districts have green roofs or other green infrastructure   |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | Create landscape master plans for individual neighborhoods to inform new developments and help structure budgets   |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | Create tax incentives for significant actions that benefit water efficiency in buildings   |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | Develop building codes that raise the standard for water efficiency  |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | Develop LID policies along undisturbed riverfront and wetlands   |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | Ease/remove impediments to installing green roofs in historic districts  |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | Remove barriers and clarify existing policies to allow and encourage underground water cisterns  |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | Require large buildings to have storm water management plans   |
| Buildings & Development | Improve stormwater retention/filtration on buildings and lots            | Work with federal government to mandate water efficiency in federal buildings  |
| Buildings & Development | Improve water efficiency of new and existing buildings                   | Create water efficiency zone that is net water positive on special DC projects   |
| Buildings & Development | Improve water efficiency of new and existing buildings                   | Develop "Micro education" programs about water efficiency/re-use within individual buildings   |
| Buildings & Development | Improve water efficiency of new and existing buildings                   | Enable smart metering to match one meter to one residential unit   |
| Buildings & Development | Improve water efficiency of new and existing buildings                   | Legislation for water efficiency in EXISTING buildings   |
| Buildings & Development | Improve water efficiency of new and existing buildings                   | Lower the "major renovation" threshold for triggering the Green Building Act   |
| Buildings & Development | Improve water efficiency of new and existing buildings                   | Partner with federal government in green redevelopment of projects   |
| Buildings & Development | Improve water efficiency of new and existing buildings                   | Reduce District government building water usage by X% (potentially using LEED water-related credits directly or as benchmarks. Maybe have to reach a certain number of platinum/gold water credits). |
| Buildings & Development | Improve water efficiency of new and existing buildings                   | Require smart metering/smart metering within corporations (would measure different water uses so corps could determine where water is being wasted). Would also lend itself to competitions.         |
| Buildings & Development | Reduce stormwater runoff from public space                               | Design and maintain public sidewalks to not contribute to stormwater runoff  |

**Sustainable DC Water Working Group  
DRAFT Actions and Goals**

|   |  |   |
|---|--|---|
| Buildings & Development                       | Reduce stormwater runoff from public space         | Reduce sidewalk and public space parking to reduce stormwater runoff  |
| Clean and Healthy Waters - Fishable/Swimmable | Create fishable/swimmable waterways by 2032        | All goals and actions below can fall under this goal  |
| Clean and Healthy Waters - Fishable/Swimmable | Create toxics free waterways                       | Determine if a chlordane TMDL is needed and if so create one  |
| Clean and Healthy Waters - Fishable/Swimmable | Create toxics free waterways                       | Locate sources of toxics pollution and take enforcement action to ensure their cleanup                                      |
| Clean and Healthy Waters - Fishable/Swimmable | Create toxics free waterways                       | Narrow Anacostia channel through wetland plantings to speed Anacostia flow and keep new toxics from settling                |
| Clean and Healthy Waters - Fishable/Swimmable | Create toxics free waterways                       | Reduce by half the amount of time between sewer pipe replacement and repair (to reduce sewage leaks from pipes)             |
| Clean and Healthy Waters - Fishable/Swimmable | Reduce stormwater pollution flowing into waterways | Develop incentive programs for larger properties to install stormwater retrofits  |
| Clean and Healthy Waters - Fishable/Swimmable | Reduce stormwater pollution flowing into waterways | Retrofit DDOT roadways, sidewalks and alleys with Low Impact Development to treat and infiltrate stormwater near its source |
| Clean and Healthy Waters - Fishable/Swimmable | Reduce stormwater pollution flowing into waterways | Triple the number of RiverSmart Homes installations performed annually  |
| Clean and Healthy Waters - Fishable/Swimmable | Reduce trash in rivers                             | Discourage use of plastic water bottles   |
| Clean and Healthy Waters - Fishable/Swimmable | Restore fisheries and wildlife                     | Create buffers for wetlands and streams and habitat corridors for wildlife  |
| Clean and Healthy Waters - Fishable/Swimmable | Restore fisheries and wildlife                     | Protect existing tree canopy and Increase tree canopy to at least 40 percent  |
| Clean and Healthy Waters - Fishable/Swimmable | Restore fisheries and wildlife                     | Stock shad, herring, and other native fish species  |
| Clean and Healthy Waters - Fishable/Swimmable | Restore fisheries and wildlife                     | Use biological assessments to track the health of tributaries and publish this information                                  |
| Clean and Healthy Waters - Fishable/Swimmable | Restore instream habitat                           | Continue pace of one stream or outfall restoration project a year with a goal of restoring all tributaries by 2032          |
| Clean and Healthy Waters - Fishable/Swimmable | Restore instream habitat                           | Control resident goose population to aid in wetland plant establishment and recovery  |
| Clean and Healthy Waters - Fishable/Swimmable | Restore instream habitat                           | Daylight piped streams where possible   |
| Clean and Healthy Waters - Fishable/Swimmable | Restore instream habitat                           | Plant fringe wetlands along the Anacostia and Potomac to replace seawalls   |

**Sustainable DC Water Working Group  
DRAFT Actions and Goals**

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| Clean and Healthy Waters - Fishable/Swimmable | Restore instream habitat   | Study the removal of seawalls along the Potomac and Anacostia waterways  |
| Clean and Healthy Waters - Fishable/Swimmable | Restore instream habitat   | Triple the acres of wetlands in the Anacostia  |
| Clean and Healthy Waters - Fishable/Swimmable | Work with upstream jurisdictions to ensure clean waters flowing into the District      | Develop a list of the top ten sources of upstream pollutants   |
| Clean and Healthy Waters - Fishable/Swimmable | Work with upstream jurisdictions to ensure clean waters flowing into the District      | Develop an interstate compact with MD to set limits on all pollutants  |
| Clean and Healthy Waters - Fishable/Swimmable | Work with upstream jurisdictions to ensure clean waters flowing into the District      | Perform a study of upstream dredging to determine if it negatively impacts the District  |
| Connector/Uniter                              | Use rivers as way to connect communities   | Develop sustainable water transportation (green water taxis, canoes) to connect both sides of river  |
| Connector/Uniter                              | Use rivers as way to connect communities   | Fishing tournament and other events on the river (e.g. bio-angling community)  |
| Disaster Preparedness                         | Increase water-related emergency preparedness  | Develop evacuation drills for communities vulnerable to flooding   |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Coordinate a range of events to promote the Initiative:<br>*World Water Week - Water & Food Security Aug.2012<br>*Trash and litter cleanups, coordinated marina and DC Water skimmer boat activities<br>*Water Monitoring Day in September<br>*Boat "parade" ... encourage lots of boats on the water<br>*Fishing events<br>*Expand DC Water's Children's Water Drop Festival (partnered with DPR in 2011 on first one @ Watkins |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Develop a shame list of water wasters and an award list of water savers  |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Develop citizen-science monitoring programs  |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Develop clear community-wide goal to inform building decisions and introduce peer pressure/righteous competition   |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Develop research/NGO institutional partnerships  |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Engage local celebrities or athletes to fundraise and help with making change (ex. Caps did a calendar with their dogs to benefit the Wash Animal Rescue League)   |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Establish a water stewards program to train people to take care of / cleanup their local streams   |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Establish metrics for "righteous competition" among residents / biz / students   |
| Education & Empowerment                       | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives | Expand and enhance existing educational targets, including the Chesapeake 2000 plan  |

**Sustainable DC Water Working Group  
DRAFT Actions and Goals**

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| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Expand RiverSmart Program to aid residents, businesses, etc. to install LID or change behavior   |
| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Expand upon DCPS science/water-related curriculum to get students out on the water, expand living classrooms   |
| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Homeowner/tenant education about projects that are for stormwater retention  |
| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Leverage events with large groups of people - parades, large community block parties, etc. - to give educational messages  |
| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Leverage major sports teams and players - especially those with stadiums along the River (Nats, United) - in stewardship and outreach opportunities (ex. Seattle Mariners gave out compost at a baseball game) |
| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Marketing or educational campaign about cleanliness and health of tap water; Find 3rd party (trusted, objective voice) to deliver the message  |
| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Promote Anacostia License Plate  |
| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Public education of plans/projects for maximum effectiveness   |
| Education & Empowerment | Involve 60% of DC Residents / Businesses / DCPS students in Sustainable DC Initiatives                       | Work with church and community groups to implement neighborhood projects to fix localized problems -- flooding, soil toxicity, habitat restoration, etc.   |
| Funding                 | Ensure funding pathways for 60% of goals and/or action items   | Provision for sending funding re-allocation to public vote   |
| Funding                 | Ensure funding pathways for 60% of goals and/or action items   | Track Program Implementation   |
| Funding                 | Ensure funding pathways for 60% of goals and/or action items   | Transparency & daylighting of decisions  |
| Funding                 | Find new partners/resources -- private/nongovernmental   | Study to establish what the value proposition is to potential partners   |
| Funding                 | Find new sources of funding  | DDOE/DC Water identify new grant opportunities   |
| Funding                 | Find new sources of funding  | Market-based drinking water pricing  |
| Funding                 | Find new sources of funding  | New license plate -- Promote existing Anacostia plate  |
| Funding                 | Find new sources of funding  | Tax plastic (soda) bottles / bottle deposit / look at broadly  |
| Funding                 | Find new sources of funding  | Watershed planning and combined resources - implementation encouraged by novel financing mechanisms  |
| Funding                 | Find new sources of funding (?)  | Use reverse auction model to establish market prices (??)  |
| Funding                 | Identify and create a sustainable funding mechanism for construction and maintenance of green infrastructure | Create a DC Revolving Fund dedicated to sustainability - which can not be returned to general funds  |
| Funding                 | Identify and create a sustainable funding mechanism for construction and maintenance of green infrastructure | Undertake real cost analysis & trackable data pilot evaluations  |
| Funding                 | Identify and create a sustainable funding mechanism for construction and maintenance of green infrastructure | Use MWCOG model for Public/Private P'Ship entity (Trust?) to fundraise and host grants for different user types  |

**Sustainable DC Water Working Group  
DRAFT Actions and Goals**

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| Innovations & Initiatives | ?  | Establish natural flow goals for watersheds to target where stormwater reduction efforts should be prioritized              |
| Innovations & Initiatives | ?  | Smart meter competitions / educational campaigns  |
| Innovations & Initiatives | Develop innovative partnerships  | Build formal partnerships to distribute and promote the use of biosolids  |
| Innovations & Initiatives | Expand green infrastructure in parking lots  | Create manuals for BMPs in parking lots for stormwater management   |
| Innovations & Initiatives | Expand green infrastructure in parking lots  | Incentivize/encourage pervious pavement and infiltration in new and existing parking lots                                   |
| Innovations & Initiatives | Expand green infrastructure in public space  | Incentivize/encourage curb cuts to allow water to flow into raingardens, bayscaping   |
| Innovations & Initiatives | Expand green infrastructure in public space  | Include raingardens/bayscaping/bioretenion cells in public roads projects   |
| Innovations & Initiatives | Expand green infrastructure in public space  | Increase canopy cover by 25% to help restore water retention and natural hydrology  |
| Innovations & Initiatives | Expand green infrastructure in public space  | Increase vegetation and pervious surfaces in a minimum of X% of public space  |
| Innovations & Initiatives | Expand green infrastructure in public space  | Install X% Permeable pavement in alleys and sidewalks   |
| Innovations & Initiatives | Expand green infrastructure in public space  | Institute demonstration projects / green streets competitions in each ward and create a fund for installation & maintenance |
| Innovations & Initiatives | Expand green infrastructure in public space  | Institute tree-safe buffer zone   |
| Innovations & Initiatives | Expand green infrastructure in public space  | Remove DDOT design and permitting/regulatory barriers to installing green infrastructure in public space                    |
| Innovations & Initiatives | Promote local green jobs and businesses to implement sustainable water goals       | Create a maintenance corps to take care of our LID, etc   |
| Innovations & Initiatives | Reduce wastewater flow (?)   | Separate sewer flow   |
| Innovations & Initiatives | Reduce wastewater flow (?)   | Utilize "Living Machines" for natural treatment of wastewater on site   |
| Innovations & Initiatives | Use our waterways as a transportation resource                                     | Clean & green water taxis and other forms of river transportation   |
| Public Access             | Improve access to clean and healthy drinking water and water for community gardens | Develop a campaign to increase water conservation including banning the use of hose water for cleaning sidewalks            |
| Public Access             | Improve access to clean and healthy drinking water and water for community gardens | Expand DC Water "Tap It" drinking water campaign to reduce use of bottled water   |
| Public Access             | Improve access to clean and healthy drinking water and water for community gardens | Increase the number of and maintenance of public drinking fountains   |
| Public Access             | Improve access to clean and healthy drinking water and water for community gardens | Install cisterns to capture water for reuse at community gardens  |
| Public Access             | Improve access to clean and healthy drinking water and water for community gardens | Make first 25 gallons of water per person on a water bill free and increase the cost of water used beyond this amount       |
| Public Access             | Improve access to clean and healthy drinking water and water for community gardens | Reduce by half the amount of time between water pipe replacement and repair (to reduce wasted water from leaking pipes)     |
| Public Access             | Increase Public Access to Streams and Waterways                                    | (Perhaps we should revisit the Anacostia Waterfront Initiative's recommendations?)  |
| Public Access             | Increase Public Access to Streams and Waterways                                    | Complete Anacostia hiker/biker trail network  |

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DRAFT Actions and Goals**

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| Public Access           | Increase Public Access to Streams and Waterways  | Create interpretive boardwalks for installed fringe wetlands (see restore instream habitat)  |
| Public Access           | Increase Public Access to Streams and Waterways  | Develop a system of public interpretive signage points to educate the public on restoration projects and other interesting water features  |
| Public Access           | Increase Public Access to Streams and Waterways  | Develop and institute one or two annual catch and release fishing tournaments for local waterways  |
| Public Access           | Increase Public Access to Streams and Waterways  | Develop more boat ramps, trails, docks, etc.   |
| Public Access           | Increase Public Access to Streams and Waterways  | Develop signed water trails on the Potomac and Anacostia Rivers  |
| Public Access           | Increase Public Access to Streams and Waterways  | Develop waterside concert locations and series   |
| Public Access           | Increase Public Access to Streams and Waterways  | Install put in/take out locations for canoes and kayaks at key locations such as the Kenilworth Aquatic Gardens  |
| Public Access           | Increase Public Access to Streams and Waterways  | Plan and develop a designated swimming area for the Potomac and Anacostia  |
| Public Access           | Increase Public Access to Streams and Waterways  | Redevelop RFK and its parking areas to include public parks with sports facilities and access to the Anacostia   |
| Public Access           | Make clean and healthy drinking water available to everyone  | Create Water fund to subsidize water bills (either from a donation through water bills or through corporate/private funding). Should maybe be tiered pricing so lowered income folks are paying less, but it's not free. |
| Public Access           | Make clean and healthy drinking water available to everyone  | Have Mayor Gray proclaim water is a human right  |
| Public Access           | Make clean and healthy drinking water available to everyone  | Make drinking water more accessible in public spaces   |
| Public Access           | Make clean and healthy drinking water available to everyone  | Potable water should be free or reduced based on a tiered pay system   |
| Stewardship             | Increase stewardship of District waterways by engaging local residents, businesses and non-profits | Develop corporate and federal partnerships to provide financial and technical resources  |
| Stewardship             | Increase stewardship of District waterways by engaging local residents, businesses and non-profits | Engage major league sports teams in the District to assist in funding and publicizing stewardship efforts  |
| Stewardship             | Increase stewardship of District waterways by engaging local residents, businesses and non-profits | Engage national and local non-profits involved in watershed protection/water quality issues to provide resources for District efforts to improve water quality and engage citizens                                       |
| Water as Resource/Asset | Encourage use of water bottles/lower use of plastic water bottles                                  | Bottle Bill (tax on bottles, maybe just water bottles)   |
| Water as Resource/Asset | Encourage use of water bottles/lower use of plastic water bottles                                  | Expand Tap-It program  |
| Water as Resource/Asset | Harvest resources of water-related by products   | Launch citywide composting   |
| Water as Resource/Asset | Harvest resources of water-related by products   | Turn waste water and byproducts (methane, energy) into commodities   |
| Water as Resource/Asset | Replace infrastructure to reduce leakage rate  | Double sewer line replacements to replace leaking water infrastructure   |
| Water as Resource/Asset | Reuse greywater  | All water on National Mall and city parks irrigated with greywater   |

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| Water as Resource/Asset | Reuse greywater | Develop formal partnerships with private and public sector to capture rainwater from across the city                         |
| Water as Resource/Asset | Reuse greywater | Incentivize private water suppliers to green their operations (collecting and reusing water bottles similar to milk bottles) |
| Water as Resource/Asset | Reuse greywater | Remove or adapt laws and regulations that prevent or discourage greywater reuse  |
| Process                 | Policy          | Break citywide goals down by sector (residential, commercial, etc.) to ensure each sector pulling own weight                 |
| Process                 | Policy          | Identify policies that conflict or obstruct goals (initial action)   |
| Process                 | Policy          | Survey local advocates and agency staff to identify other sustainability issues (initial action)                             |