ID #	Plan/Policy Title	Type of Initiative	Description	Link
			NATURAL BODIES OF WATER	
1	Chesapeake Bay Total Maximum Daily Load (TMDL) on trash	Existing Condition	As a signatory to the US EPA Chesapeake Bay Program, the DDOE Water Quality Division is working with US EPA and the other Bay partner jurisdictions (MD, VA, PA, WV, NY and DE) to develop a Chesapeake Bay Total Maximum Daily Load (TMDL) on trash. Once developed, the Bay TMDL will set milestones for achieving water quality standards for the Chesapeake Bay, including local waters	http://ddoe.dc.gov/ddoe/frames.asp?doc=/ddoe/lib/ddoe/services/pdf/Final_Anacostia_Trash_TMDL.pdf
2	Anacostia 2032 Plan	Plan	The District Department of the Environment created a long term plan and vision for restoring the Anacostia River by 2032. This plan is provides the direction and goals to achieve in order to make sure the natural integrity is maintained for the benefit of water quality, plant and animal species and as a recreational resource:	http://ddoe.dc.gov/ddoe/lib/ddoe/wqd/tmdl_reports/anacostia/Anacostia2032.pdf
3	Bag Bill of 2010	Existing Condition	In an effort to prevent any further trash from falling into the Anacostia River, the District enacted the Plastic Bag Bill, which creates a fee for plastic bags from businesses. The fees from the bill are used to help restore the quality of the Anacostia River:	http://dpw.dc.gov/DC/DPW/Services+on+Your+Block/Recycling/Commercial+Recycling
4	U.S. EPA MS4 Permit	Plan	Through the city's recently approved MS4 permit, there are multiple new stormwater fees and incentive programs that will be used to offset the effects of urban stormwater runoff and improve DC's waste water infrastructure:	http://www.epa.gov/reg3wapd/pdf/pdf_npdes/Wastewater/DC/DCMS4permit2011.pdf
5	DC Water Clean Rivers Project	Existing Condition	The District Water and Sewer Authority is in the process of improving, updating and expanding its wastewater treatment system to reduce CSO events, support future development and improve the health of waterways through the Clean River Project:	http://www.dcwater.com/workzones/projects/longtermcontrolplan.cfm
6	Develop Chesapeake Bay Nutrient Total Maximum Daily Loads (TMDL)	Plan	As a signatory to the US EPA Chesapeake Bay Program, the District is working with US EPA and the other Bay partner jurisdictions (MD, VA, PA, WV, NY and DE) to develop a Chesapeake Bay Total Maximum Daily Load (TMDL) on nutrients. Once developed, the Bay TMDL will set milestones for achieving water quality standards for the Chesapeake Bay, including the local waters.	
7	Restore Watts Branch	Policy	DDOE will complete the Watts Branch restoration project which will restore 1.9 miles of stream and address uncontrolled stormwater in portions of the project. The project includes working in the community around the restoration area to plant trees, install storm drain markers, and educate residents and businesses.	
8	Increase fish habitat	Policy	DDOE plants submerged aquatic vegetation to increase and improve breeding and growing habitat for fish.	
9	Medical Drug Disposal Program	Policy	The District will implement a program to provide disposal for expired or waste over-the-counter and prescription drugs that otherwise might be flushed into wastewater. Many of these drugs have shown to be persistent and pass into drinking water supplies.	
10	Conduct Real-time Water Quality Monitoring	Policy	DDOE's Water Quality Division launched a real-time monitoring program in the Anacostia and Potomac Rivers. The real-time monitoring project improves data availability for the District portion of the Potomac and Anacostia Rivers and supports river restoration efforts.	http://ddoe.dc.gov/ddoe/cwp/view,a,1210,q,497563,ddoeNav,%7C31007%7C,.asp
11	Participate in Development of Maryland Fecal Coliform Reduction Plan	Plan	DDOE is working with Maryland to develop an enforceable fecal coliform implementation plan for the Anacostia. In the long term we will work with Maryland to ensure that the Total Maximum Daily Load (TMDL) is implemented.	
12	Stock fish in local waterways	Policy	DDOE will hatch shad and release fry in the Anacostia River and upstream areas of Rock Creek. This effort is aimed at increasing the shad population in District waters.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,494728.asp
13	Survey fish populations	Policy	DDOE will survey populations of game fish that live or breed in District waters.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,494728.asp
14	Create the District's Anacostia River Restoration Plan	Plan	The District would like to create a plan for the restoration of the District's portion of the Anacostia River.	http://www.ddoe.dc.gov/ddoe/frames.asp?doc=/ddoe/lib/ddoe/wqd/tmdl_reports/anacostia/Anacostia2032.pdf
15	Create Wetlands	Existing Condition	DDOE and the National Park Service will create fringe wetland sites at Kingman Lake and stream outfalls near Ft. Dupont, the National Arboretum, Poplar Point and other locations. Fringe wetlands reduce erosion, filter pollutants that would flow downstream, and provide vital wildlife habitat.	
16	Daylight Sections of Tributaries	Existing Condition	DE plans to "daylight" sections of Pope Branch and Broad Branch tributaries of the Anacostia River.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,499145.asp
17	Demonstrate Restoration Stormwater Outfalls	Existing Condition	DDOE and partner agencies will develop designs and install innovative stormwater outfalls that reduce the force of the stormwater runoff. These structures allow stormwater to flow at a slower rate, reducing erosion in stream beds and damage to the surrounding ecosystem while allowing for more effective drainage.	
18	Develop Interim Wetlands Policy	Policy	DDOE's Water Quality Division is developing an Interim Policy on Wetlands to provide clarity to the regulated community on how the District interprets its obligations to protect the already limited wetland resources in the District. The policy will also provide options for wetlands mitigation.	

19	Educational and enforcement for coal tar sealant ban	Regulation	The District of Columbia recently passed a ban on coal tar sealants used in paving roads and parking lots. Through this legislation the Department of Environment was tasked with developing an educational campaign and an enforcement strategy for the coal tar sealant ban.	
20	Remove Anacostia Seawall	Policy	DDOE and other partners will remove portions of the Anacostia seawall above the Pepco Plant. Areas of seawall that will be removed will be replaced with natural vegetation to stabilize the riverbank and provide a filter for water that washes into the river.	http://ddoe.dc.gov/ddoe/lib/ddoe/wqd/tmdl_reports/anacostia/Anacostia2032.pdf
21	Install Kenilworth Avenue Trash Rack	Existing Condition	DDOT will install a mechanical trash rack system on Kenilworth Avenue to remove trash from stormwater. Trash racks screen debris and prevent it from entering local water sources.	
22	Reforest Anacostia River watershed	Policy	The Urban Forestry Administration will fund two tree planting projects with federal grant money within highly endangered watersheds of the Anacostia river. This initiative will include educational exhibits during its implementation.	
23	Trees Planted in Fiscal Year 2007	Existing Condition	UFA planted ~4800 trees in FY 08 in our city's streetscape	
24	Implement the Anacostia Waterfront Initiative	Plan	The Anacostia Waterfront Initiative envisions an energized waterfront that will unify diverse areas with one of the city's greatest natural assets, the Anacostia River. The Initiative seeks to revitalize neighborhoods, enhance and protect parks, improve water quality and increase access to waterfront destinations.	http://www.planning.dc.gov/planning/cwp/view,a,1285,q,571105,planningNav_GID,1708.asp
25	Restore Hickey Run	Policy	USDA and other partners will use natural channel restoration techniques to rehabilitate Hickey Run and its tributaries.	http://www.epa.gov/reg3wapd/nps/success/dc_hickey_run.htm
26	Mimic hydrologic processes	Policy	Under DC's MS4 permit, developments over 5000 sq ft must also achieve the same runoff that would have occurred predevelopment, with a 72 hour antecedent dry period.	http://dres.dc.gov/DC/DRES/Programs/Existing%20Buildings%20&%20Small%20Projects%20Sustainable%20Design%20Guide%202011.pdf
27	Remove Floating Trash and Debris in the Anacostia	Policy	Since 1992, DC Water has operated skimmer boats to collect floating trash and debris from the Anacostia River, removing about 600 tons of trash a year.	
28	Daylight Streams and Protect Streams and Wetlands	Policy	DDOE will use geospatial information studies (GIS), historic maps, and ground trotting to identify locations where it may be possible to bring streams back to the surface. Furthermore, DDOE will identify streams and wetland areas in danger of being filled or piped. Using this information, DDOE will develop a list of streams to be daylighted and will work with the Office of the Attorney General (OAG) to develop regulations or legislation to protect wetland and streams.	
29	Mimic natural drainages	Policy	In new projects under the DRES guidance, new projects should follow the conditions of the natural watershed and drainage patterns.	http://dres.dc.gov/DC/DRES/Programs/Existing%20Buildings%20&%20Small%20Projects%20Sustainable%20Design%20Guide%202011.pdf
30	Eliminate Upstream Toxic Hotspots	Policy	DDOE will work to eliminate upstream sources of toxic pollutants by working with Maryland Department of the Environment and U.S. EPA to identify sources of upstream toxic pollutants, ensuring that Maryland develops total maximum daily loads (TMDL) for toxics, and negotiating an enforceable toxic pollutant implementation plans for Maryland. Although much can be done in District to limit pollutants that enter our waterways, upstream pollutants from Maryland contribute to a significant amount of pollutants that enter the Anacostia River.	
31	Restore the Chesapeake Bay	Plan	As a partner of the Chesapeake Bay Program, DDOE has developed 2-year milestones for the District's actions to help restore the Chesapeake Bay.	http://www.chesapeakebay.net/
32	Pope's Branch Environmental Mitigation (TE)	Regulation	This project will involve the removal of sediment and conversion of culvert to outfall structure. Environmental mitigation of runoff pollution and provision of wildlife connectivity	
33	Restore Spring Valley Streambank	Policy	DPR will stabilize and restore the Spring Valley streambank in order to minimize current erosion problems and to limit erosion n the future.	
34	Create Wetland and Forest Buffer	Plan	Create a legal requirement for a 50 foot wetland and forest buffer along all District streams and rivers.	
35	Watts Branch Sewer Rehab and Stream Restoration, phase II	Plan	Phase II of the sewer rehab and stream restoration project for Watts Branch.	
36	Implement the Anacostia River Business Coalition	Policy	DDOE will develop a campaign and seek support from businesses and non-profit organizations for Anacostia trash reduction. The Anacostia River has a severe problem with excessive trash. The District is committed to the goal of having a trash-free Anacostia by 2013.	
37	Control Resident Canadian Geese	Regulation	DDOE and the National Park Service will develop and implement a cross-jurisdictional residential goose abatement program to control non-native, invasive Canadian geese and protect Anacostia wetlands.	http://ddoe.dc.gov/ddoe/frames.asp?doc=/ddoe/lib/ddoe/wqd/tmdl_reports/anacostia/Anacostia2032.pdf
38	Develop an Anacostia Watershed Ground Water Flow Model	Plan	DDOE's Water Quality Division, in cooperation with the U.S. Geological Survey, is developing a ground water flow model for the Anacostia River. The model will improve the understanding of ground water flow in the Anacostia watershed and the interactions between ground water and the river.	
39	Create No Discharge Zone for Anacostia	Plan	Ensure all new or renovated marinas are "clean marinas" including the installation and use of marine pumpout stations to remove sewage waste from boats. Create a "no discharge zone" for the District's navigable waters.	

40	Remove Fish Passage Barriers	Policy	DDOE and other partners will map and systematically remove barriers to fish passage on the Anacostia River and its tributaries.	http://ddoe.dc.gov/ddoe/frames.asp?doc=/ddoe/lib/ddoe/DC_WAP_Chp6_Fish_Invert.pdf
			STORMWATER LIDS/BMPS	
1	DC Water Low Impact Development	Plan	Installation of $3 million in various low impact development (LID) practices at DC Water facilities to control stormwater runoff	
2	Improve Stormwater Management at Bryant Street Pump Station	Plan	The original Bryant Street Pump Station site did not have any special stormwater management provisions and the site was close to 100 percent impervious (roof or paved surfaces). As part of the 2006 renovations, sand filters were installed to improve the quality of stormwater runoff.	
3	Green Roof Installations in coordination with the Chesapeake Bay Foundation	Policy	DC Water provides funds to the Chesapeake Bay Foundation to support installation of green roofs on buildings in the District, reducing stormwater runoff.	
4	Tree Planting in the Combined Sewer Area	Policy	In 2007, DC Water provided funds to DDOT to plant over 2,000 trees in the combined sewer area (the older, central parts of the District). A healthy tree canopy reduces stormwater runoff and improves water quality.	
5	Rain Gardens, pilot projects	Plan	In 2008, DC Water constructed two LID rain gardens at North Capitol & Irving Street NE to reduce stormwater runoff and improve water quality.	
6	Upgrade Trash Screens at Pump Stations	Plan	DC Water has replaced old trash screens at all of its pump stations in the Anacostia watershed with a new generation of screen that intercept trash more effectively and prevent it from entering the Anacostia River.	
7	Clean Stormwater Catch Basins	Plan	DC Water will increase catch basin cleanouts by purchasing machinery, hiring more staff, and developing a catch basin cleanout plan and schedule. There are over 25,000 catch basins throughout the District that trap sediment and other pollutants, preventing them from entering local waterways.	
8	Install Rain Barrels/Rain Water Harvesting Systems on Public Housing Developments	Policy	DCHA will install rain barrels/rain harvesting systems at two locations. Rain barrels recover and store rain water, which be reused for irrigation or other purposes.	
9	Install Water Conserving Devices in public housing developments	Policy	DCHA will remove all sink faucets, water closets and shower heads and replace with new energy conserving fixtures in 41 public housing developments.	
10	Complete Green Roof Project	Policy	A standard roofing system was converted into a green roof at Regency House. A new green roof is under construction at Sheridan Station's multifamily building. Green roofs cool the building, providing energy savings and capturing storm water runoff.	
11	Install Green Roofs on Schools	Policy	Explore increasing the number of green roofs on DCPS schools.	
12	Use Green Schools as Teaching Tools	Policy	Develop environmental education curricula for use in LEED-certified schools that integrate lessons based on green building techniques.	
13	Coordinate Schoolyard Conservation Program	Policy	25 schools worked with DDOE to clean up and re-plant their grounds. This effort not only results in school beautification, but also increases green space that retains water on-site during storms.	
14	Green the 2011 Building Code	Regulation	Following up on significant improvements to energy and water conservation requirements in the 2008 Building Codes, DCRA and DDOE will coordinate with the Construction Code Coordinating Board to provide technical expertise in developing green building code provisions and, once adopted, providing training to promote effective implementation.	http://dcra.dc.gov/dcra/cwp/view,a,1342,q,638634.asp
15	Develop Urban Tree Canopy Goal	Policy	DDOE and DDOT have officially adopted a city-wide tree canopy goal of 40 percent canopy coverage. The District will develop an implementation plan that identifies specific funding sources for tree planting and maintenance projects by August 2009.	
16	Expand Green Roof Incentive Program	Policy	DDOE is making $500,000 available for new and retrofit green roof installations on federal, residential, commercial, and District-controlled properties. DDOE will assess the effectiveness of the green roof incentive program and increase funding as appropriate up to $1,000,000 annually.	http://www.dcgreenworks.org/index.php?option=com_content&task=view&id=37&Itemid=66
17	Stormwater Fee Discount Program	Policy	Develop a stormwater fee discount program to encourage and reward property owners who install practices that reduce stormwater runoff.	

18	Implement Trash Traps to Capture Trash Flowing into the Anacostia	Policy	DDOE has installed two "trash traps" as part of a pilot program to collect refuse in nets before it can flow into the Anacostia River. Based on results of the pilot, DDOE will expand trash trap installations across the District.	
19	Implement Municipal Separate Storm Sewer System (MS4) Permit	Regulation	The District receives a permit from the U.S. EPA for the Municipal Separate Storm Sewer System (MS4). The MS4 covers 2/3 of the District (primarily areas outside the older downtown core) and sends stormwater runoff directly into our local streams and rivers. DDOE coordinates implementation of the permit requirements across government agencies to reduce the flow of stormwater and pollution into the District's streams and rivers. Each coordinating agency has a list of specific tasks they are responsible for carrying out.	
20	Conduct RiverSmart Schools Environmental Education	Policy	DDOE and other partners link community-based environmental education programs to school curriculum for students and teachers. Students receive meaningful watershed education experiences that promote environmental stewardship.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,498536,PM,1.asp
21	Demonstrate Low Impact Development in Public Space	Policy	DDOE and other partner agencies will install low impact development (LID) demonstration projects to reduce stormwater runoff in public space. Projects should include: implementing bioretention in parking spaces where traffic calming measures have been requested by community, demonstrating curbside bioretention in tree boxes, installing "green alleys", and using roadway triangles and small parks to treat roadway stormwater runoff. Bioretention areas are green spaces that hold and treat rain water, reducing the flow of polluted stormwater into streams and rivers.	
22	Develop Clean Water Guide for Auto Service Businesses	Policy	DDOE's Water Quality Division will release a brochure to promote pollution prevention and serve as a clean water guide for auto services facilities in the District. The brochure addresses spill prevention and clean up, good housekeeping practices, and enforcement penalties for noncompliance and will be distributed to auto service centers across the District.	
23	Install RiverSmart Schools Sites	Policy	In collaboration with agency partners, DDOE will install five RiverSmart School schoolyard conservation sites fiscal year 2010, and additional five sites each consecutive year. These sites treat stormwater onsite, create habitat for wildlife and outdoor classrooms and laboratories.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,498536,PM,1.asp
24	Implement stormwater reduction demonstration program	Policy	DDOE will identify and implement demonstration sites to showcase innovative stormwater runoff harvest, reuse, and treatment systems.	
25	Inspect Stormwater Treatment Facilities	Policy	DDOE will step up inspection of stormwater treatment facilities at service stations.	
26	Maryland Stormwater Retrofits	Policy	DDOE is working with Maryland to encourage stormwater retrofits and stream restoration in Prince George's and Montgomery Counties and develop and coordinate cross-border watershed projects. In the long term, DDOE will work with Maryland to ensure that stormwater retrofits (trash reduction, rain gardens, permeable pavement, etc.) and stream restoration projects are installed to reduce the flow of polluted stormwater downstream into the District.	
27	Expand RiverSmart Homes Stormwater Reduction Program	Policy	DDOE and DC Water provide incentives to encourage homeowners to install stormwater control devices at their homes. By October 2009, DDOE will install 50 rain gardens and 125 rain barrels and perform 200 downspout disconnections.	http://ddoe.dc.gov/ddoe/lib/ddoe/stormwaterdiv/Proposed_Incentive_Framework.pdf
28	Restructure Stormwater Fees	Regulation	DDOE and DC Water will restructure stormwater fees to be based on the amount of impervious area (e.g., roofs, driveways, and other hard surfaces that cause stormwater runoff) on a property and will provide incentives to encourage best management practices for stormwater.	
29	Promulgate Stormwater Management Regulations	Regulation	DDOE will promulgate revised stormwater management regulations that will require the use stormwater retention practices and train plan reviewers, inspectors, designers and construction managers on their use.	
30	Create a Low Impact Development Master Plan	Plan	DDOE will create a Low Impact Development Master Plan to identify stormwater management opportunities across the District, including a timeline for implementation of projects on public property.	
31	Create Anacostia Environmental Events Calendar	Policy	DDOE will create and maintain a schedule of environmental events for the Anacostia River on the DDOE website.	

32	Improve Street Sweeping Effectiveness Using Sweepercam	Existing Condition	DPW is using cameras mounted on its mechanical street sweepers to photograph illegally-parked vehicles that prevent effective street cleaning. A recent pollutant study found the sweepers remove 100 pounds of oil and grease, on average, for every 10 miles swept.	http://newsroom.dc.gov/show.aspx/agency/dpw/section/2/release/16554
33	Increase Street Sweeping	Existing Condition	DPW will increase street sweeping by purchasing additional machinery, hiring additional workers, and developing an enhanced street sweeping and fine particle removal plan and schedule. DPW will submit details on the implementation of such a program in the Upgraded Stormwater Management Plan.	
34	Develop Transportation Fluids Recycling Centers	Policy	DPW and DDOE will develop a network of free drop off locations for transportation related fluids.	
35	Assess District Buildings for Green Roofs	Policy	DDOE will complete a structural assessment of all District properties maintained by OPM to determine feasibility for green roof installations. Based on this list DDOE will develop an implementation schedule for retrofitting District properties.	
36	Fund Green Roofs on District Properties	Policy	Received $1.3 million to integrate green roof projects to manage stormwater runoff from District properties in support of the District's municipal separate storm sewer system (MS4) National Pollutant Discharge Elimination System (NPDES) Permit (MS4 Permit).	
37	Install Additional Green Roofs	Policy	Over 200,000 sq ft of green roofs are planned for installation on District buildings in the next 3 years.	http://opm.dc.gov/opm/cwp/view,a,1214,q,640804.asp
38	Conduct Green Roof Survey of District Buildings	Policy	OPM completed a survey of municipal properties to identify green roof retrofit opportunities. This survey is the basis for on going efforts to retrofit municipal building roofs with green components.	
39	Expand BID/DC Main Streets Clean Team Program	Policy	The BID Litter Cleanup Program will be expanded to an additional four BID/Main Streets commercial corridors, which will receive supplemental litter removal that minimizes stormwater pollution, uses eco-friendly cleaning products, landscapes with draught-tolerate plants, and coordinates cooperative watering by businesses.	
40	Green Roof at Engine 30, 50 49th Street N.E.	Existing Condition	DDOE and FEMS have identified 22,000 square feet of roof area at two District fire stations that are scheduled for roof rehabilitation and could add green roof components to reduce, detain and treat stormwater runoff. Twelve additional fire stations have been identified as potential sites.	
41	Install Rain Barrels at fire stations	Existing Condition	DDOE will install a 3000 gallon rain barrel and FEMS will use captured water to wash fire apparatuses and save water.	
42	Retrofit Fire Station with Stormwater Harvest/Reuse System	Existing Condition	FEMS and DDOE have identified a fire station in Ward 8 to retrofit with a stormwater harvest system to reduce use of potable water for truck washing and tank filling. This demonstration project will be evaluated for use in fire stations and equipment yards throughout the District.	
43	Mark Storm Drains	Regulation	DDOE and its partners label 1,000 storm drains each year to raise awareness and educate the public on how individual actions can affect our local streams and rivers.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,494728.asp
44	Promote Downspout Disconnections	Policy	The Department of Consumer and Regulatory Affairs (DCRA) has modified the Building Code to reduce regulatory barriers to implementing small scale downspout disconnects. Many home downspouts are connected directly to the sewer system. By disconnecting downspouts, roof water can be used to water lawns and gardens instead of adding to stormwater volumes in sewers.	
45	Retrofit Catchbasins for Street Trash Reduction	Policy	DDOE will retrofit 50 stormwater catch basins in 2009 to investigate the cost and effectiveness of different technologies designed to reduce the flow of trash into our waterways.	
46	Stormwater Management Education	Policy	Students participate in DDOE's Large LID projects to manage stormwater through green infrastructure and environmentally sensitive design. Bancroft and Brent Elementary Schools received NRCS Service Awards for these projects.	
47	Study Illegal Dumping Reduction Practices	Policy	DDOE and DPW will examine the District's current system of investigating illegal dumping and review best practices from other jurisdictions to reduce/eliminate the illegal dumping problem in DC.	

48	Survey Anacostia Litter and Develop Trash Control Plan	Plan	DDOE and agency partners completed a survey of litter in the Anacostia watershed to determine sources and recommend methods of control. Using this research, DDOE will develop a total maximum daily load (TMDL) to set limits on trash pollution and an implementation plan to achieve the TMDL.	http://www.anacostiaws.org/PDF/Trash/121508CollierTrashReport.pdf
49	Provide Low Impact Development (LID) Design and Maintenance Training	Policy	DDOT will contract with a consultant to provide LID design and maintenance training to DDOT and other agency staff.	
50	Construct Metropolitan Branch Trail	Policy	DDOT is building an 8 mile bikeway from Union Station to Takoma Park. The Metropolitan Branch Trail connects to the Capital Crescent Trail, the Anacostia Tributaries Trail System and the National Mall, and will be part of the East Coast Greenway.	http://ddot.dc.gov/ddot/cwp/view,a,1245,q,559807,ddotNav_GID,1761,ddotNav,%7C34416%7C.asp
51	Develop Low Impact Development Tracking Database	Policy	DDOT will develop a database to track existing LID structures installed throughout the District by all Agencies.	
52	Evaluate Low Impact Development in Public Right-of-Way	Policy	Based on results of low impact development (LID) in right-of-way demonstration projects, DDOE will evaluate all DDOT right-of-way projects for LID opportunities and implement LID where feasible. DDOT will incorporate LID into 25 percent of all DDOT projects before new stormwater regulations are in place.	
53	Implement Green Alley Demonstration Sites	Policy	DDOT and other agency partners will identify and implement green alley demonstration sites. If successful, DDOT will duplicate green alleys city-wide as alleyways are repaired or replaced.	
54	Increase the number of Low Impact Development Sites	Policy	There are currently 17 low impact development (LID) sites installed in the District's right-of-way areas that will improve stormwater quality. DDOT will add an additional 20 LID sites to reduce the volume of stormwater runoff and improve stormwater quality.	
55	Pilot Permeable Pavement Alley Project	Policy	DDOT will construct a permeable pavement alley or street as a pilot project to evaluate impact on stormwater quality. Most pavement is impermeable, forcing water to flow over it, picking up pollution and flowing into sewers. Permeable pavement allows water to seep back into the soil and water table.	
56	Conduct Trash Cleanups Using Community Service Crews	Policy	Department of Corrections will develop and implement a program to use people sentenced to community service for cleanup crews.	
57	DC Jail Rainbarrel Manufacturing	Policy	DOES will create a program that trains inmates to convert recycled plastics into rain barrels.	
58	LaFayette Spray Park Water Reuse	Policy	DPR and DDOE will implement a "gray water" system to reuse water from a children's spray park feature to irrigate plantings and reduce use of potable water.	
59	Install Sub-surface Irrigation	Policy	All new irrigation systems installed on DPR fields and common areas to be sub-surface drip irrigation. Drip irrigation significantly reduces amount of water needed to water an area.	
60	Wash Water Recycling	Policy	Agency policy should require bus and rail car wash systems to recycle wash water.	
61	Retain Stormwater	Policy	Under DC's recent MS4 permit, development projects over 5000 sq ft must retain the first 1.7" of stormwater.	http://dres.dc.gov/DC/DRES/Programs/Existing%20Buildings%20&%20Small%20Projects%20Sustainable%20Design%20Gui
62	Require new projects to meet standards	Policy	Projects under some District agencies are encouraged to meet zero effective impervious surface, which would help the city meet the requirements of the MS4 permit	http://dres.dc.gov/DC/DRES/Programs/Existing%20Buildings%20&%20Small%20Projects%20Sustainable%20Design%20Guide%202011.pdf
63	Maintain and operate new installations	Existing Condition	Under the guidance of the DRES, all LIDs are required to have an operation and maintenance agreement to ensure proper function and upkeep of new investments.	http://dres.dc.gov/DC/DRES/Programs/Existing%20Buildings%20&%20Small%20Projects%20Sustainable%20Design%20Gui
64	Plan for LID installments		New projects under the DRES are also encouraged to retain space for LID, minimize impervious surface, reduce soil compaction, move runoff to vegetated areas for pollution filtration and infiltration, plan for emergency overflow.	http://dres.dc.gov/DC/DRES/Programs/Existing%20Buildings%20&%20Small%20Projects%20Sustainable%20Design%20Gui
65	Projects of certain size must produce Stormwater Management Plans	Policy	Under MS4 permit, projects over 5000 sq ft must produce a SWMP that includes site map, water discharge points and plans/drawings for all LIDs, pipes, easements, soil types, construction plans, inspection plans.	http://dres.dc.gov/DC/DRES/Programs/Existing%20Buildings%20&%20Small%20Projects%20Sustainable%20Design%20Gui

66	Implement Hazardous Waste Tracking System	Policy	DDOE implements the U.S. EPA's national hazardous waste database (RCRA INFO) and updates critical information pertinent to hazardous waste handlers and reporting throughout the District. Identifying and tracking sources of hazardous waste handlers protects residents and the environment from potential leakages and mishandling of toxic substances.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,495148,ddoeNav_GID,1486,ddoeNav,%7C31375%7C31377%7C.asp
67	Inspect Fuel/Oil Storage Tanks	Regulation	DDOE and FEMS will increase inspection of underground (DDOE lead) and aboveground storage tanks (FEMS lead) in cooperation with U.S. EPA. The numbers of inspections is defined by EPA grant requirements and increases each year. In fiscal year 2008, DDOE inspected 110 or 423 underground storage tank facilities.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,494854,ddoeNav_GID,1486,ddoeNav,|31375|31377|.asp
68	Manage Cleanup of Leaking Underground Storage Tanks	Regulation	DDOE is managing and operating a program to identify cases of leaking underground storage tanks (LUSTs) and managing the voluntary remediation of LUST-contaminated sites under oversight of U.S. EPA. DDOE is responsible for reducing the backlog of ongoing LUST cases within the District.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,494854,ddoeNav_GID,1486,ddoeNav,%7C31375%7C31377%7C.asp
69	Enforce Underground Storage Tank Requirements	Regulation	DDOE performs compliance activities involving all Underground Storage Tanks (UST) in the District, including managing inspections, notifications, and certifications. DDOE coordinates all compliance and enforcement activities with U.S. EPA.	http://ddoe.dc.gov/ddoe/cwp/view,a,1209,q,494861.asp
70	Examine banning polystyrene	Regulation	DDOE will examine the economic, environmental, and social impacts of banning the sale of polystyrene containers in the District of Columbia.	
71	Construct Truck Wash and Brine Manufacturing Facilities	Policy	DDOT will construct the truck wash/brine manufacturing facilities to reduce pollution to District waterways from vehicles and road salt. Washing trucks used to deliver rock salt in the winter results in a salty water that is detrimental to local fresh water ecosystems. Wash/brine manufacturing facilities collect and reprocess this water so that it can eventually be reused by salt trucks, a better alternative to releasing the water directly into the environment.	
72	Support Low Impact Development in the Right of Way by Private Developers	Policy	DDOT will encourage and support private developers to implement LID in right-of-way where feasible.	
73	Conserve Water and Improve Water Quality	Plan	DC Water reduces system main breaks, improves both domestic and fire flow capacity, and improves water quality by either rehabilitating or replacing old, unlined cast iron and steel pipe to remove corrosion by-products and mitigate bio-film and bacteriological growth. DC Water continues this work, but has already completed over 100,000 linear feet of small diameter water main replacements.	
74	Develop Do-It-Yourself Academy to promote Water Quality	Policy	DDOE and agency partners will develop and implement an education and outreach campaign aimed at do-it-yourself homeowners and mechanics interested in accomplishing lot-level actions to improve water quality.	
WATER TREATMENT FACILITIES				
1	Improved Pumping at 16th & Alaska PS	Plan	16th & Alaska PS supplies potable water to customers and has a firm pumping capacity of 3.5 million gallons per day. New pumping units and motors are to be installed as part of an future upgrade project and pumping will be more energy efficient when this work is completed.	
2	Install Enhanced Clarification Facilities	Plan	DC Water will provide additional treatment to improve the quality of excess flows to Blue Plains during wet weather events, including flows that are currently discharged as combined sewer overflows.	
3	DC Clean Rivers Project: Complete Anacostia Tunnel for Combined Sewer Overflow Control	Plan	DC Water will construct a 23 foot inside diameter combined sewer overflow (CSO) storage and conveyance tunnel from CSO 019 near RFK Stadium to the Blue Plains Waste Water Treatment Plant. The tunnel will reduce CSO flows into the Anacostia River by 98 percent.	
4	Enhance Nitrogen Removal Capacity at Blue Plains	Plan	DC Water will expand the existing nitrification-denitrification process to further reduce nitrogen levels in water flowing from the Blue Plains Waste Water Treatment Plant and improve water quality in the Potomac River and Chesapeake Bay.	
5	Ft. Reno Water Pump Station Rehabilitation	Plan	Some pumping stations have been updated for efficiency with replaced variable frequency drives, improving energy use.	

6	DC Clean Rivers Project: Fully Implement the Long Term Control Plan on the Potomac River and Rock Creek	Plan	DC Water will work with the Federal Government to fund and fully implement the Long Term Control Plan to reduce combined sewer overflows (CSOs) in the District. Combined sewer outflows are areas where mixed stormwater and waste water are released during storms with high water volumes. Reducing combined sewer outflows will improve water quality in our local streams and rivers.	
7	Monitor Energy and Chemical Use at Blue Plains	Policy	A plantwide distributed control system that includes field instrumentation and a central monitoring station results in more efficient energy and chemical use in the Blue Plains wastewater treatment process.	
8	Outfall Sewer Rehabilitation	Plan	Repair of the major sewer to the Blue Plains Water Treatment Plant. Maximizes flow to minimize system overflows.	
9	Potomac Interceptor Long-Term Odor Abatement-MD & DC Sites	Plan	Construction of 4 odor control facilities to control odors along the Potomac Interceptor	
10	Pope Branch Sewer Rehab and Stream Restoration	Plan	Sewer rehab and stream restoration to eliminate sewer leaks and restore the Pope Branch (tributary to the Anacostia River)	
11	Prevent Leakage from the Distribution System	Policy	DC Water is planning the installation of internal joint seal on approximately 50,000 linear feet of large diameter water mains to prevent leakage and conserve water. These large mains have a high frequency of joint leakage and are considered to be in otherwise sound condition.	
12	Recycle Blue Plains Biosolids	Policy	Biosolids (treated human manure) is recycled for use on farms and restoration sites in Virginia and Maryland. Biosolids recycling sequesters carbon, reducing carbon dioxide greenhouse gas emissions by an average of 3000 tones per month. Biosolids recycling also replaces man-made fertilizer, which requires energy to produce.	
13	Rehabilitate Oxon Run Sewer Lines	Plan	DC Water will rehabilitate sanitary sewer lines along Oxon Run in SE and eliminate stream crossings.	
14	Rehabilitate Sewer Line at National Arboretum	Plan	DC Water will rehabilitate its East Side Interceptor, constructing a new sewer and crossing of Hickey Run (a tributary to Anacostia River) to eliminate an old, damaged sewer.	
15	Repair or Remove Leaking Sewer Pipes	Policy	DC Water conducts inspections to detect and then repair or remove leaking sewer pipes to prevent contaminated water from entering streams and rivers.	
16	Rock Creek Regulator Adjustment	Plan	Sewer separation and structure adjustments to minimize sewer overflows	
17	Upper Anacostia Main Interceptor (UAMI) Relief Sewer	Plan	Construction of new relief sewer to minimize surcharging and overflows of the Upper Anacostia Main Interceptor (UAMI)	
18	Conserve Water and Improve Water Quality	Plan	DC Water has a small diameter water main replacement program. This program serves to rehabilitate or replace pipe to reduce system main breaks, improve both domestic and fire flow capacity, and improve water quality by either rehabilitating or replacing old, unlined cast iron and steel pipe to remove corrosion by-products (tuberculation) and mitigate bio-film and bacteriological growth.	
19	Install Advanced Digestion and Produce Renewable Energy	Plan	DC Water will install an anaerobic digester system to convert sewage organic matter to methane gas that can be burned to produce 10 megawatts of clean, renewable energy. Methane production at Blue Plains will reduce energy consumption and the carbon footprint (greenhouse gas emissions) of the facility by approximately one-third.	
20	Upgrade Targeted Storm Sewers	Policy	DC Water will upgrade targeted storm sewers including installing a stormwater relief sewer in the Henson Ridge neighborhood, extending the existing storm sewer at Bangor Street and Hunter Place, and replacing a damaged section of storm sewer pipe under Pennsylvania Avenue at Texas Avenue.	
21	Capture Trash at Combined Sewer Overflow 017	Plan	In 2001, DC Water installed a netting system at combined sewer overflow (CSO) 018 on the Anacostia River to collect trash that would otherwise go to the Anacostia River. The device removes about 340 pound of trash per month.	

22	DC Clean Rivers Project: Conduct Targeted Combined Sewer Projects	Plan	DC Water will work on targeted combined sewer projects to reduce combined sewer overflows to the Anacostia. Projects include: separating combined sewer in approximately 14 acres near Martin Luther King Avenue and Good Hope Road SE; rehabilitating in-system dams that limit combined sewer overflows; and completing the new Eastside Anacostia Pump Station.	
23	CSO Sewer Separation 005	Plan	Entails the separation of combined sewers integrated sewer sheds to minimize overflows to the Anacostia River	
24	Dewatered Sludge Loading Facility	Plan	Provide odor control system to treat a range of odors that may be encountered at the Blue Plains dewatered sludge loading facility.	
25	Fabri-dam Rehabilitation	Plan	DC Water rehabilitated 9 fabridams installed in the Anacostia drainage area thus reducing both CSO and trash to the river	
26	Filtration Facility Upgrade	Plan	Replace the Blue Plains filter underdrain, media and provide an air-water backwash system to reduce the amount of spent washwater pumped.	
27	Improve Energy Efficiency of Anacostia Pump Station	Plan	DC Water's original Anacostia Pump Station was constructed in 1913 and rehabilitated in the 1970s. As part of the replacement of Anacostia Pump Station in 2008, a new building was built with efficient lighting and building energy systems.	
28	Improve Pumping at Anacostia Pump Station	Plan	Anacostia PS supplies potable water to customers east of the Anacostia River and has a firm pumping capacity of over 80 million gallons per day. In 2008, New pumping units and motors were installed as part of the Replacement of Anacostia PS under Contract 040230 and pumping is more energy efficient today.	
29	Improve Tide Gates	Plan	DC Water will install of new tide gates to reduce the quantity of surface water from the Potomac & Anacostia Rivers that enters the sewer system. Wastewater treatment is energy intensive and reducing inflow from the rivers will save energy and money.	
30	Improved Pumping at Bryant Street PS	Plan	Bryant Street PS supplies potable water and has a firm pumping capacity of over 200 million gallons per day. The pumping units and motors at Bryant Street PS were rehabilitated or replaced under Contract 010050 and pumping is more energy efficient today.	
31	Install Fine Bubble Diffusers at Blue Plains	Plan	DC Water will install more efficient diffusers for use in its aerated wastewater treatment processes at Blue Plains. This change will conserve energy (estimated at 7.7 megawatts) and reduce the facilities carbon dioxide greenhouse gas emissions by approximately 20 percent.	
32	Install Stormwater Controls at Anacostia Pump Station	Plan	DC Water's original Anacostia Pump Station site was close to 100 percent impervious surface (roof or paved surfaces). As part of the replacement of station in 2008, a bioretention area was installed and trees were planted to treat stormwater.	
33	New Denitrification Mixers	Plan	Replace 75 hp turbine aerators with new mixers to facilitate denitrification of wastewater at Blue Plains.	
34	Pennsylvania Ave Storm Sewer Rehab	Plan	Installation of new storm sewer to relieve flooding and improve drainage.	
35	Prevent Water Leakage from Distribution System	Policy	DC Water has already completed the installation of internal joint seal in approximately 10,000 linear feet of large diameter water mains to prevent water leakage. These large mains had a high frequency of joint leakage and are considered to be in otherwise sound condition.	
36	Rehabilitate Anacostia Pump Stations	Plan	DC Water has replaced the Eastside Pump Station and rehabilitated the Main Pump Station and other smaller stations in the Anacostia drainage area. As a result, combined sewer overflows to the Anacostia River have been reduced by an estimated 40 percent.	