

**Water Policy Implementation Task Force Initiatives
Public Utilities Department Activities in Progress**

Category	Task Force Initiative	Lead Department/Division	Activities in Progress
<p align="center">Rate Structure</p>	<p>Consider a responsible and defensible rate structure that may include tiered rate or allocation pricing structure that encourages conservation and discourages waste.</p>	<p align="center">Public Utilities Department Luis Generoso/Marsi Steirer Jeanne Cole/Le Ann Jones</p>	<p>Finance & IT Division:</p> <ul style="list-style-type: none"> • Cost of Service Study to be completed in CY 2012.
			<p>Long Range Planning & Water Resources Division:</p> <ul style="list-style-type: none"> • Staff is working with consultant to evaluate applicability of water budget based billing in San Diego. Staff report to NR&C due Fall 2012.
<p align="center">Stormwater Re-Use</p>	<p>Rainwater collection and re-use or irrigation. Diversion of stormwater to local reservoirs and underground aquifers, including Low Impact Development.</p>	<p align="center">Stormwater Department Bill Harris</p>	<p align="center">Stormwater Department</p>
<p align="center">Grey Water Use</p>	<p>Remove potential barriers and streamline implementation of grey water use for irrigation purposes.</p>	<p align="center">Development Services Department Afsaneh Ahmadi</p>	<p align="center">Development Services Department</p>

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New Technologies	Partnerships with businesses and organizations that incubate practical new technologies and scientific research to assist the City in developing a sustainable water supply, and maximizing efficiencies and saving to ratepayers.	Public Utilities Department Brent Eidson Marsi Steirer	<p>In 2011, the Public Utilities Department established an Innovation Forum in order to provide vendors of new technologies an open forum with department leaders to present their proposals.</p> <p>Long Range Planning & Water Resources Division:</p> <ul style="list-style-type: none"> • Staff examines new technology that promotes efficient water use and participates in the setting of efficiency standards.
Water Quality (cont'd on pg 3)	Maintain high water quality and support appropriate water quality regulatory requirements for potable, non-potable, as well as wastewater and stormwater discharges.	Public Utilities Department Steve Meyer Jesus Meda Agnes Generoso	<p>Environmental Monitoring & Technical Services Division provides technical support to the Department and oversees several significant programs, including:</p> <ul style="list-style-type: none"> • Full-time monitoring and evaluation of the drinking water, wastewater, and residuals systems to help the Department ensure that we meet all regulatory and water quality standards (federal, state, and local). • Oversight of facility operations for compliance with stormwater environmental regulations. • Conducting comprehensive ocean monitoring programs to assess the impact of wastewater discharge to the ocean. • Preventing industrial pollution by controlling discharges to the sewer through the Industrial Wastewater Control Program. • Providing consultative scientific and technical assistance for system optimization and new technology evaluation • Managing regulatory permit applications and prepare required regulatory reports for the City/Public Utilities Department.

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<p>Water Quality (cont'd)</p>	<p>Maintain high water quality and support appropriate water quality regulatory requirements for potable, non-potable, as well as wastewater and stormwater discharges.</p>	<p>Public Utilities Department Steve Meyer Jesus Meda Agnes Generoso</p>	<p>Water System Operations Division:</p> <ul style="list-style-type: none"> • All three of the Department's water treatment plants recently implemented new disinfection processes (Ozone and Chlorine Dioxide) which has improved the water quality delivered to customers. • The Department participates with the American Water Works Association's (AWWA) Partnership for Safe Water Program (Partnership Program). The Partnership Program's mission is to improve the quality of drinking water delivered to customers of public water supplies by optimizing system operations. The City's Otay Water Treatment Plant received the Director's Award of Recognition for the fourth consecutive year in 2011 from the Partnership Program. In addition, both the City's Miramar Water Treatment Plant and the City's Potable Water Distribution System Section began participation with the Partnership for Safe Water Program in Fiscal Year 2011/2012 and are working towards improving water quality through optimized and customized performance improvements via this program. The Alvarado Water Treatment Plant is also starting the Partnership Program in Fiscal Year 2013 and has already implemented several optimizing projects. • The Department's three water treatment plants have a goal is to achieve a maximum effluent turbidity of 0.10 Nephelometric Turbidity Units (NTU) or less, 95 percent of the time. This goal exceeds the regulatory limit of 0.30 NTU and is indicative of a highly-performing water treatment plant. • The Department has developed a Nitrification Action Plan, in coordination with the State's Department of Public Health, to improve water quality within its distribution system, particularly within its water storage facilities. <p>Wastewater Treatment & Disposal Division: year-round operation and maintenance of all facilities and components of wastewater treatment, to standards that meet or exceed all regulatory requirements at the federal, state and local levels.</p>

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Water Conservation	Support water conservation during both wet and dry weather periods. This includes goals stated in the Urban Water Management Plan and Senate Bill No. 7 requiring a reduction in per capita water consumption of 20% by 2020.	Public Utilities Department Marsi Steirer/Luis Generoso	Long Range Planning & Water Resources Division: <ul style="list-style-type: none"> • Staff currently provides the following to residential and non-residential customers: incentives for landscape and irrigation efficiencies; plumbing fixtures and water using appliances and machineries; indoor and outdoor water user surveys; calculation of water budgets and irrigation run times; speakers bureau presentations; participation at community events, plant fairs and expos; traditional media and social media announcements; children's poster and film contests; promotion of the Water Conservation Garden; water waste investigations; San Diegans "Waste No Water" campaign messaging; application and receipt of grant funds for programs; and supporting legislation that promotes water efficiency standards and practices.
Indirect Potable Reuse	Support Indirect potable reuse if the Water Purification Demonstration Project is successful.	Public Utilities Department Marsi Steirer/Amy Dorman	Long Range Planning & Water Resources Division: <ul style="list-style-type: none"> • Staff is working with consultants to evaluate feasibility of augmenting reservoir water supplies with purified water. Project Report will be completed in late 2012, and will document results relative to: public outreach, reservoir modeling, water quality testing, pipeline alignment, economic evaluation, and regulator concept approval.

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<p align="center">Non-potable recycled water use</p>	<p>Support cost-effective expansion and simplification of regulatory approval for the use of non-potable recycled water.</p>	<p align="center">Public Utilities Department Marsi Steirer/Jennifer Casamassima/Amy Dorman/Cathy Pieroni</p>	<p>Long Range Planning & Water Resources Division (LRP&WR):</p> <ul style="list-style-type: none"> • 2010 Recycled Water Master Plan Update (RWMP) LRP&WR staff oversaw the completion of the 2010 Recycled Water Master Plan Update (2010 RWMP) to comply with the City’s Water Reclamation Ordinance (Ordinance), adopted by the City Council in 1989 and incorporated into the Municipal Code (Chapter 6, Article 4, Division 8). The ordinance requires the City to prepare a Recycled Water Master Plan to define, encourage, and develop the use of recycled water within City boundaries; the plan is to be updated every five years. The Ordinance is specific to reclaimed [recycled] water which, by State of California Water Code 13050(n), is defined as “water which, as a result of treatment of waste, is suitable for direct beneficial use or a controlled use that would not otherwise occur”. The previous recycled water master plan, a 2005 update, was completed in tandem with the Water Reuse Study and approved by City Council in December 2007. • The 2010 RWMP was prepared at the same time as the larger scale Recycled Water Study (Study); the 2010 RWMP’s market assessment serving as the foundation for non-potable demands in that Study. The main focus of the 2010 RWMP was to evaluate opportunities to maximize non-potable reuse if projects identified in the Study are not pursued. Planned recycled water pipeline distribution system expansion projects, slated for completion by 2015, were also included. The 2010 RWMP was approved by the Natural Resources & Culture Committee on May 23, 2012 and was approved by City Council on July 17, 2012. • As part of the 2010 Recycled Water Master Plan Update, a market assessment of potential non-potable recycled water customers was conducted. Pipeline, treatment, storage, and pumping infrastructure requirements were determined for serving areas with high occurrences of potential customers. Capital costs for the infrastructure were determined to be significant while the potential usage was small (8 million gallons per day) compared to both Citywide water demands as well as Metro System wastewater flows. • The LRP&WR division has the lead role in developing and submitting comments associated with regulatory policies and legislation in support of potable reuse.

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Water Assessment related to Land Use	Support the use of Water Supply Assessments related to land-use decisions.	Public Utilities Department Marsi Steirer/George Adrian	<p>Long Range Planning & Water Resources Division:</p> <ul style="list-style-type: none"> • The Public Utilities Department prepares Water Supply Assessments (WSA) in coordination with San Diego County Water Authority, SANDAG and the Development Services Department (DSD) in accordance with the State Water Code (beginning in section 10910) to evaluate the water usage of large development projects of 500 dwelling units (or equivalent) or larger. • The Public Utilities Department prepares an Urban Water Management Plan (UWMP) every five year (years ending in 5 and 0) in accordance with the Urban Water Management Act (ACT), as amended, California Water Code, Sections 10610 through 10656. The UWMP is the foundational document for the preparation of the WSA's.
Develop new cost effective water supply sources	Support new cost effective water supply sources such as, but not limited to: desalination, water transfers, local groundwater recharge and use, etc.	Public Utilities Department Marsi Steirer/George Adrian/Amy Dorman	<p>Long Range Planning & Water Resources Division:</p> <ul style="list-style-type: none"> • The 2012 Long Range Water Resources Plan (LRWRP) will assess planning objectives and stakeholder values, evaluate emerging issues (climate change), and use the most recent information available to determine an updated long-term water supply strategy for the City of San Diego. Local water sources (runoff, rainfall, groundwater, stormwater and wastewater), imported sources and their integrated use is discussed in 2012 LRWRP. • The 2010 Urban Water Management Plan (UWMP) also illustrates much of the integration of our water supplies.
Increase regional water storage capacity	Support the construction of regional storage reservoirs or enlargement of existing reservoirs as needed.	County Water Authority	The San Diego County Water Authority's Board of Directors approved the region's Emergency Storage Program in 1998, which included the newly built Olivenhain Reservoir and the raising of the San Vicente dam (currently under construction). These two reservoirs add approximately 75,000 AF of emergency storage and 100,000 AF of carryover storage to the region. Additionally, the Metropolitan Water District built the massive 800,000 Diamond Valley reservoir in 1998 which serves the San Diego region.