



THE CITY OF SAN DIEGO

M E M O R A N D U M

DATE: July 11, 2012

TO: Natural Resources & Culture Committee - Agenda of July 25, 2012

FROM: Roger Bailey, Director of Public Utilities

SUBJECT: Monthly Update on the Indirect Potable Reuse/Reservoir Augmentation Demonstration Project

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On May 23, 2012, the Public Utilities Department provided an update on the Indirect Potable Reuse/Reservoir Augmentation Demonstration Project (Demonstration Project) to the City Council's Natural Resources & Culture Committee (NR&C), (ITEM-7). The Demonstration Project received a pass for the June 27 NR&C meeting, therefore, the July 25 memo will include information from May, June and July. This is a progress report of the individual tasks budgeted within the Demonstration Project as requested by Committee members.

**Public Outreach & Education**

- June 30, 2012, marked the one-year anniversary of the official opening of the Advanced Water Purification Facility (AWP Facility) tour program. To date, nearly 200 tours for more than 2,400 guests have been held. Notable guests from this rating period included Congressman Bob Filner, San Diego County Water Authority Board of Directors, and the San Diego County Environmental Health Advisory Board.
- The Public Utilities Department participated in the city-wide Sewer Science program, held annually in May for local high school students. The curriculum encourages discussion regarding personal responsibility, technology, environmental issues and public policy. As part of the public policy lesson, the students focused on municipal wastewater treatment, water recycling, and water purification. For further education, the students were provided with Demonstration Project informational materials.
- The WaterReuse Research Foundation held its annual Water Reuse & Desalination Research Conference in San Diego from June 3 to 5, 2012. The conference provided a forum for industry professionals to interact, network, and discuss current and future research trends. Staff members were invited to speak on the matter of research associated with the Demonstration Project. Staff presented the following topics:

- Development of a Three Dimensional Hydrodynamic Model to Assess Indirect Potable Reuse/Reservoir Augmentation in San Vicente Reservoir - *Jeff Pasek, City of San Diego Public Utilities Department*
- Evaluation of Performance Monitoring Methods for Advanced Water Purification Processes - *Bill Pearce, City of San Diego Public Utilities Department and James DeCarolis, MWH*
- Practice What You Find: Tailoring Outreach Efforts Based on Research Findings - *Marsi Steirer, City of San Diego Public Utilities Department*

As part of the official conference program, a tour of the North City Water Reclamation Plant and the Advanced Water Purification Facility took place on Sunday, June 3, 2012. Visitors were able to view the City's recycled water treatment and the advanced water purification processes.

- Demonstration Project team members hosted an informational booth at the 3rd Annual Juneteenth Celebration and Healing Our Communities Health Fair. The June 16 event was held in Council District 8 and featured a kid zone, health screenings, and additional health resources in a safe and fun environment. Demonstration Project multicultural and technical staff engaged event attendees and gathered nearly 50 interest cards from guests seeking additional project information.

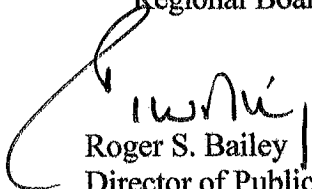
#### **Operation of Advanced Water Purification Facility**

- City staff met with Caltrans on May 22, 2012, to discuss the 23-mile pipeline that would transport purified water from North City Water Reclamation Plant to San Vicente Reservoir if a full-scale project moves forward. Alternative pipeline alignments are also being studied and will be included as part of the final project report.
- The third quarter water quality data of the AWP Facility was received in June 2012. The test water was sampled for more than 300 compounds, which included all regulated drinking water contaminants and all contaminants under consideration for regulation. City staff is currently reviewing the test data.

The fourth quarter data sampling period began on May 1, 2012. The data sampling will continue to assess performance of individual unit processes and characterize North City Water Reclamation Plant tertiary water quality. The fourth quarter data report will be received in September 2012.

- On June 18, 2012, members of the City project team met with the Executive Director and staff of the Regional Water Quality Control Board to further define the regulatory roadmap for the project. This was the seventh meeting with the Regional Board staff to discuss the project. At this meeting it was agreed the City would prepare a "concept proposal" for the

Regional Board's review and input. This concept proposal will lay out the various regulatory pathways and key decision points leading to approval of the project by the Regional Board.



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Director of Public Utilities

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