



THE CITY OF SAN DIEGO
PUBLIC UTILITIES
DEPARTMENT



Report to the Natural Resources and Culture Committee

Indirect Potable Reuse/Reservoir Augmentation Demonstration Project

Advanced Water Purification Facility Consultant Agreement with Camp Dresser & McKee (CDM)

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Demonstration Project Objectives

- Explore the feasibility of the project's treatment technology to produce water that can be sent to a reservoir and later be distributed as drinking water;
- Design, procure, install, operate, and test a one (1) million gallon per day demonstration-scale advanced water purification facility at the North City Water Reclamation Plant (NCWRP);
- Coordinate with State regulators on permit conditions; and
- Implement a public education and outreach program



Project Description and Background

- City Council votes to proceed with the Demonstration Project on October 29, 2007
- Rate increase of \$11.8 million to fund the project was approved by City Council on November 18, 2008, and went into effect in January 1, 2009
- February 4, 2010 the City issued a Request for Proposal
- April 9, 2010, four firms interviewed
- April 21, 2010, CDM selected
- May 17, 2010, Agreement supported by IROC
- Summer 2010, contract award



IPR/RA Demonstration Project Tasks and Budget

	<u>Original Budget</u>	<u>Actual Contract</u>
Project Management	\$1,688,000	\$1,731,742
• Award contract February 2010		
Independent Advisory Panel	\$250,000	\$250,000
• First meeting May 2009		
Advanced Water Purification Facility	\$7,400,000	
• Contract award Summer 2010		\$6,600,000
• AWP Facility concrete pad and hard canopy at NCWRP *		\$600,000
• Estimate on-site electrical cost		\$200,000
Reservoir Detention Study	\$385,000	\$420,000
• Award contract April 2009		
Pipeline Alignment	\$50,000	\$50,000
• With Project Management contract		
Public Outreach	\$1,700,000	\$1,499,611
• With Project Management contract		
Contingency	\$338,000	\$459,647
TOTAL PROJECT BUDGET	\$11,811,000	
GRANT FUNDING	\$3,970,000	

* \$600K of the original approved \$7.4 million was approved by City Council on April 13, 2010 per Item – 332, “Awarding the Design Build Contract to Aherns Corp. for the Electro Dialysis Reversal Unit #6, and a concrete pad and hard canopy for future use at NCWRP”



AWP Facility Scope of Work

- Design, procure, install, operate, and test a demonstration – scale AWP Facility at the NCWRP. This AWP Facility is to be sized at approximately 700 gallons per minute (1 MGD)
- Develop a Testing and Monitoring Plan, including testing approach and protocols for the AWP Facility
- Provide a cost estimate for a full-scale AWP Facility based on results from the demonstration facility testing
- Prepare a Project Report based on the operation and testing of the demonstration facility.



Requested Actions

- Approve the AWP Facility Consultant Agreement with CDM.
- Approve the expenditure of \$6,600,000 from Water CIP Budget to fund Consultant Agreement with CDM.
- Contract Duration: 2010-2013