



THE CITY OF SAN DIEGO

NATURAL RESOURCES AND CULTURE COMMITTEE

AGREEMENT WITH TRUSSELL TECHNOLOGIES, INC. FOR WATER TREATMENT RESEARCH CONSULTING SERVICES, AMENDMENT No. 1

MARSI STEIRER
DEPUTY DIRECTOR

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SENIOR ENGINEER

SEPTEMBER 25, 2013



EXISTING CONTRACT

- Trussell Technologies was selected via a competitive procurement process to conduct research in water treatment technology associated with potential water supply options
- Contract approved by Council on November 13, 2008 (Resolution R-304315)
- Not-to-exceed amount: \$3 million
- Contract Executed on December 10, 2008
- Contract Terminates on December 10, 2013

GRANT FUNDING FOR EXTENDED TESTING

- In 2012 City was selected to received \$1.2 million in State Proposition 50 grant funding for extended testing
 - City share of costs: \$50,000
 - City authorized task order for Trussell to perform extended testing
- In April 2013, grant funding was increased to \$2.7 million
 - No change to City share of costs
 - Enabled extended testing scope to be expanded
 - Expanded scope requires more time; anticipated completion date is now Spring 2015 [after existing contract terminates]
- Amendment No. 1 will accommodate increased extended testing budget, scope and duration

BACKGROUND

- Council unanimously adopted the Water Purification Demonstration Project report on April 23, 2013.
- Council directed staff to develop a Potable Reuse Implementation Strategy:
 - that maximizes local water supply and reduces flows to Point Loma
 - that considers both indirect (IPR) and direct potable reuse (DPR) options

IPR VERSUS DPR

- Potable reuse based on multiple-barrier concept to prevent unwanted contaminants from reaching drinking water system
- IPR requires treatment and environmental barriers; San Vicente Reservoir would be the City's environmental barrier
- DPR would not utilize an environmental barrier
 - Potential savings due to shorter pipeline; aqueduct system and water treatment plants closer to purification site than San Vicente
 - No DPR regulations exist to define what additional treatment or other barriers must compensate for absence of environmental barrier → *DPR-IPR cost difference cannot be determined at this time*

DPR REGULATIONS

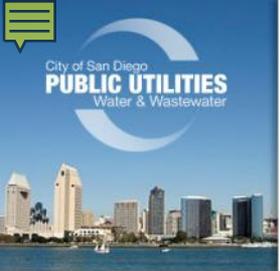
- Direct potable reuse regulations have not been defined. California Senate Bill 918 requires California Department of Public Health (CDPH) to report on feasibility of establishing DPR regulations by December 31, 2016
- CDPH lacks funding and staff to perform necessary research to reach an informed decision
- A DPR Initiative was formed by WateReuse Research Foundation to assist CDPH in direct potable reuse regulations; City joined this initiative at Council's direction

EXTENDED TESTING AT CITY'S ADVANCED WATER PURIFICATION FACILITY (AWPF)

- Objective: evaluate effectiveness of potential treatment and monitoring strategies for DPR
- Benefit: helps fill research data gap in CDPH's DPR feasibility determination
- AWPF is the only full-scale test facility in California suited for this type of research; DPR Initiative will utilize facility for additional DPR research beginning in July 2015

ADDITIONAL BENEFITS OF CONTRACT EXTENSION

- Continuous interim operations between end of extended testing and beginning of WaterReuse Research Foundation direct potable reuse research grant.
- Continuing outreach efforts
 - Extended Testing will keep AWPf operational for public tours
- Sustaining current potable reuse momentum
 - Build upon information gained from the Water Purification Demonstration Project



SUMMARY OF PROJECTED CONTRACT EXPENDITURES

Description	Amount	Notes
Existing contract	\$3,000,000	Approved by Council November 13, 2008
Total projected through December 10, 2013	\$2,629,658	<ul style="list-style-type: none"> Includes ~\$1.9 million expended on grant-reimbursable research Total grant amount is ~\$2.7 million, to be completed during proposed contract extension
Total projected need after December 10, 2013	\$ 1,105,000	<ul style="list-style-type: none"> \$775,000 to complete grant-reimbursable research in December 2014 \$330,000 to continue AWPf operations through Fiscal Year 2015
Projected total under extended agreement	\$ 3,734,658	<ul style="list-style-type: none"> Total to be reimbursed through <u>grant funding: \$2.7 million</u>
Proposed increase to contract amount	\$734,658	

STAFF RECOMMENDATION

Approve Amendment No. 1 with Trussell Technologies, Inc. through an Ordinance to:

- Increase not-to-exceed amount by \$735,000 to \$3,735,000.
- Extend contract termination date to July 10, 2015.



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Water Purification Demonstration Project



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