

OTAY WATER DISTRICT  
SPECIAL MEETING OF THE BOARD OF DIRECTORS  
DISTRICT BOARDROOM

2554 SWEETWATER SPRINGS BOULEVARD  
SPRING VALLEY, CALIFORNIA

**THURSDAY**  
**October 21, 2010**  
**3:30 P.M.**

**AGENDA**

1. ROLL CALL
2. PLEDGE OF ALLEGIANCE
3. APPROVAL OF AGENDA
4. PUBLIC PARTICIPATION – OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO SPEAK TO THE BOARD ON ANY SUBJECT MATTER WITHIN THE BOARD'S JURISDICTION BUT NOT AN ITEM ON TODAY'S AGENDA

**ACTION ITEMS**

5. APPROVE AN AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES WITH AECOM TECHNICAL SERVICES, INC. IN AN AMOUNT NOT-TO-EXCEED \$3,910,297.00 FOR THE OTAY MESA CONVEYANCE AND DISINFECTION SYSTEM PROJECT (KENNEDY)
6. ADJOURNMENT

All items appearing on this agenda, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.

The Agenda, and any attachments containing written information, are available at the District's website at [www.otaywater.gov](http://www.otaywater.gov). Written changes to any items to be considered at the open meeting, or to any attachments, will be posted on the District's website. Copies of the Agenda and all attachments are also available through the District Secretary by contacting her at (619) 670-2280.

If you have any disability which would require accommodation in order to enable you to participate in this meeting, please call the District Secretary at 670-2280 at least 24 hours prior to the meeting.

#### Certification of Posting

I certify that on October 18, 2010, I posted a copy of the foregoing agenda near the regular meeting place of the Board of Directors of Otay Water District, said time being at least 24 hours in advance of the special meeting of the Board of Directors (Government Code Section §54954.2).

Executed at Spring Valley, California on October 18, 2010.

  
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Susan Cruz, District Secretary



STAFF REPORT

TYPE MEETING:	Special Board	MEETING DATE:	October 21, 2010
SUBMITTED BY:	Bob Kennedy <i>BK</i> Associate Civil Engineer	W.O./G.F. NO:	P2451- DIV. NO. ALL 001101
	Ron Ripperger <i>M</i> Engineering Manager		
APPROVED BY: (Chief)	Rod Posada <i>R. Posada</i> Chief, Engineering		
APPROVED BY: (Asst. GM):	Manny Magaña <i>m magaña</i> Assistant General Manager, Engineering & Operations		
SUBJECT:	Award of a Professional Engineering Services Contract for the Otay Mesa Conveyance and Disinfection System Project		

**GENERAL MANAGER'S RECOMMENDATION:**

That the Otay Water District (District) Board of Directors authorizes the General Manager to execute an agreement for Professional Engineering Services with AECOM Technical Services, Inc., (AECOM) in an amount not to exceed \$3,910,297 for the Otay Mesa Conveyance and Disinfection System Project (see attached Exhibit A for project location.)

**COMMITTEE ACTION:** \_\_\_\_\_

Please see Attachment A.

**PURPOSE:**

To obtain Board authorization for the General Manager to enter into a Professional Engineering Services agreement with AECOM in an amount not to exceed \$3,910,297 for the Otay Mesa Conveyance and Disinfection System Project.

**ANALYSIS:**

The District's 2007 Integrated Water Resources Plan (IRP) was prepared primarily to identify alternate supplies of potable and recycled water. The reliability of existing imported water supplies is not assured given the potential for drought or a seismic event, plus the uncertainties associated with current

regulatory controls on State Water Project deliveries. These have made it necessary for the District to look elsewhere to meet present and future water demands in a reliable and cost effective manner.

One of the recommendations of the IRP for supply diversification is to explore the feasibility of a binational ocean desalination facility within Mexico. Staff has been meeting with state and local authorities in Baja California to discuss the feasibility of such a project. After many years, a desalination facility is high on the agenda at all levels of government in Mexico. Preliminary Engineering has begun to identify alignments for a transmission pipeline to convey desalinated and conditioned potable water produced at the Rosarito desalination plant in Mexico to the border.

The Otay Mesa Conveyance and Disinfection System Project (Project) will provide a potable water transmission pipeline and pump station to convey the desalinated water from the border of Mexico to Roll Reservoir on Otay Mesa. The District requires the services of an engineering consulting firm (Consultant) to provide a range of services for the Project, including the preparation of a Preliminary Design Report and contract documents; provide public outreach services; coordinate with the California Department of Public Health (CDPH) to identify a cost effective means to meet regulations; conduct water quality testing; and prepare the environmental documentation to provide compliance with CEQA/NEPA for the Project.

In accordance with the Board of Directors Policy No. 21, the District initiated the selection process on August 23, 2010, by placing advertisements in the San Diego Union Tribune and the San Diego Daily Transcript, and posting the project on the District's website for Professional Engineering Services. A Pre-Proposal Meeting was held on September 7, 2010. Thirty-two primary engineering and sub-consultant firms submitted a Letter of Interest (LOI) and a Statement of Qualifications. To maximize the potential number of responses, the advertisement was sent to all of the firms that submitted Letters of Interest for the North District and South District Interconnection System Project.

Proposals were received on September 27, 2010, from the following eight consulting firms:

1. AECOM Technical Services, Inc.
2. URS
3. RBF Consulting
4. Malcolm Pirnie, Inc.
5. Carollo
6. Tetra Tech

- 7. Camp, Dresser & McKee, Inc.
- 8. HDR Engineering, Inc.

Due to the high quality of the proposals received, the complexity of several key tasks required, and the difficulty in discerning the quality of key staff through a written proposal, the District elected to interview all eight consultants. The proposals and interviews were evaluated by a selection panel comprised of five District staff members. After conducting the interviews on October 7<sup>th</sup> and 8<sup>th</sup>, 2010, the panel completed the consultant ranking process and concluded that AECOM received the highest ranking and provided the best overall value to the District. A summary of the complete evaluation is shown in Exhibit B.

Fee negotiations with AECOM concluded on October 11, 2010, and resulted in a net reduction of \$110,000 to their originally proposed fee. An allowance for additional studies was also reduced by \$200,000. Staff recommends the award of a professional services contract to AECOM for a not-to-exceed amount of \$3,910,297.

**FISCAL IMPACT:**



The total budget for CIP P2451, as approved in the FY 2011 budget, is \$30,000,000. Based on a review of the financial budget, the Project Manager has determined that the budget is sufficient to support this project.

The projected engineering services expenditures through Fiscal Year 2014 are as follows:

<u>Fiscal Year</u>	<u>Projected Consultant Expenditure</u> (Cumulative)
2 <sup>nd</sup> quarter, FY 2011	\$ 240,000
3 <sup>rd</sup> quarter, FY 2011	\$ 750,000
4 <sup>th</sup> quarter, FY 2011	\$1,430,000
1 <sup>st</sup> quarter, FY 2012	\$2,000,000
2 <sup>nd</sup> quarter, FY 2012	\$2,600,000
3 <sup>rd</sup> quarter, FY 2012	\$3,200,000
4 <sup>th</sup> quarter, FY 2012	\$3,400,000
FY 2013	\$3,865,000
FY 2014	\$3,910,000
<b>Total:</b>	<b><u>\$3,910,000</u></b>

The Finance Department has determined that 40% of the funding is available from the Expansion Fund and 60% of the funding is available from the Betterment Fund.

**STRATEGIC GOAL:**

This project supports the District's Mission statement, "To provide the best quality of water and wastewater services to the customers of Otay Water District, in a professional, effective, and efficient manner" and the District's Strategic Goal, "To satisfy current and future water needs for potable, recycled, and wastewater services."

**LEGAL IMPACT:** \_\_\_\_\_

None.



\_\_\_\_\_  
**General Manager**

P:\WORKING\CIP P2451 Desalination Feasibility Study\Staff Reports\Board 10-21-10 Award Engineering\BD 10-21-10, Staff Report, Otay Mesa Conveyance and Disinfection System Project Consultant Award, (BK-RR) .doc

BK/RR:jf

Attachments: Attachment A - Committee Action  
Exhibit A - Location Map  
Exhibit B - Summary of Ranking Spreadsheet



## ATTACHMENT A

<b>SUBJECT/PROJECT:</b> P2451-001101	Award of a Professional Engineering Services Contract for the Otay Mesa Conveyance and Disinfection System Project
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### COMMITTEE ACTION:

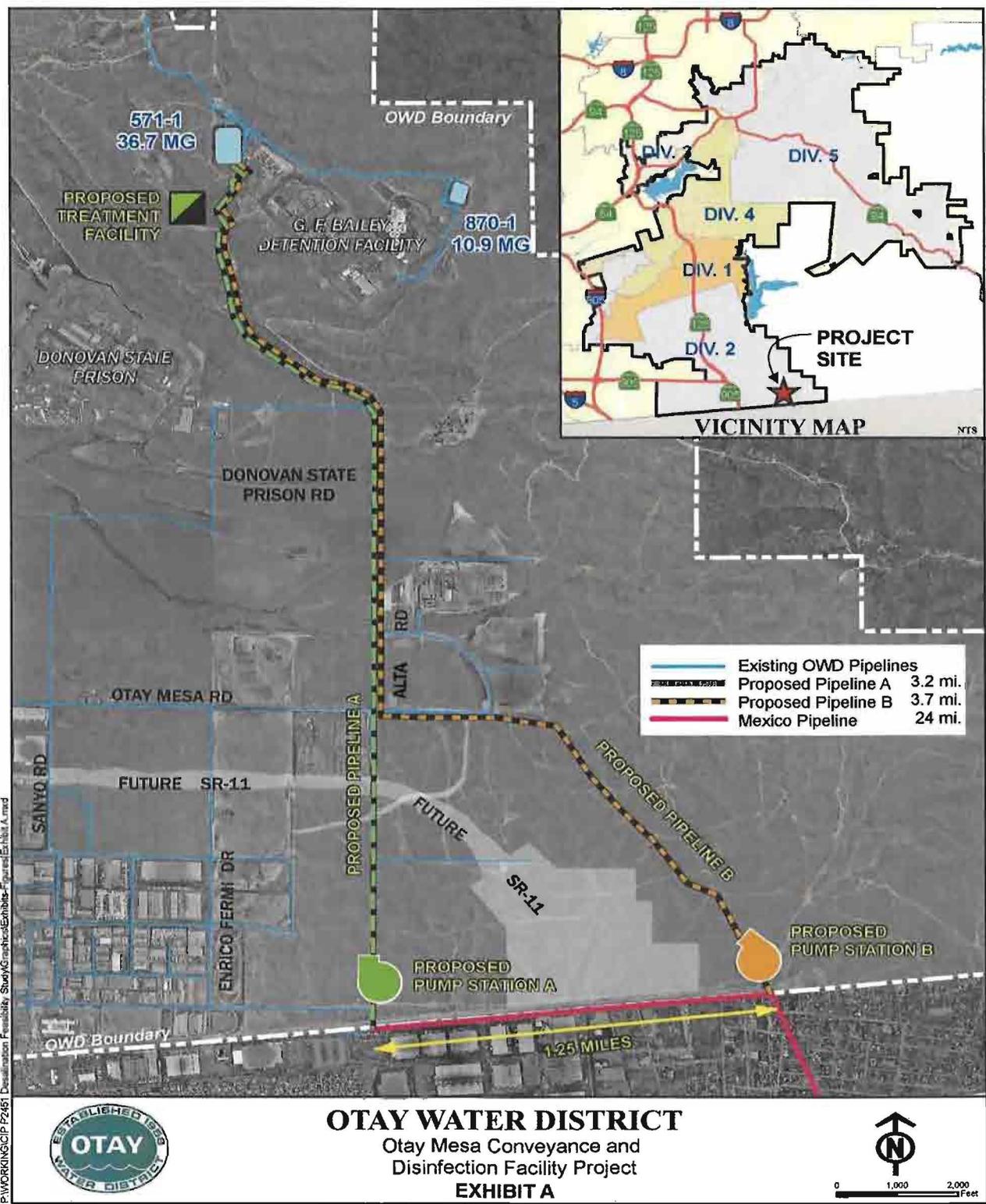
The Engineering, Operations, and Water Resources Committee reviewed this item at a Special Committee Meeting held on October 14, 2010 and the following comments were made:

- Staff is requesting the Board's authorization to enter into a Professional Engineering Services agreement with AECOM in an amount not-to-exceed \$3,910,297 for the Otay Mesa Conveyance and Disinfection System Project.
- It was discussed that the District's 2007 Integrated Water Resources Plan (IRP) identified alternate supplies of potable and recycled water. As the reliability of existing imported water supplies is not assured, it has made it necessary for the District to look elsewhere to meet present and future water demands that will be both reliable and cost effective.
- One of the recommendations of the IRP for supply diversification is to explore the feasibility of a binational ocean desalination facility within Mexico. Staff has been meeting with state and local authorities in Baja California to discuss the feasibility of such a project. After many years, a desalination facility is high on the agenda at all levels of government in Mexico. Preliminary Engineering has begun to identify alignments for a transmission pipeline to convey Pacific Ocean desalinated and conditioned potable water produced at the Rosarito desalination plant in Mexico to the border.
- The Otay Mesa Conveyance and Disinfection System Project (Project) will provide a potable water transmission pipeline and pump station to convey the desalinated water from the border of Mexico to Roll Reservoir on Otay Mesa. The District requires the services of an engineering consulting firm (Consultant) to provide a range of services for the Project, including:

- The preparation of a Preliminary Design Report to establish the alignment for the pipeline and the location of the pump station and disinfection facility.
  - Coordinate the pipeline crossing at the border with NSC Aqua
  - Prepare contract documents
  - Provide public outreach services
  - Coordinate with the California Department of Public Health (CDPH) to identify a cost effective means to meet regulations
  - Conduct water quality testing
  - Prepare the environmental documentation to provide compliance with CEQA/NEPA for the Project.
- In accordance with the Board of Directors Policy No. 21, the District initiated the selection process on August 23, 2010 and received proposals from eight (8) consulting firms. After evaluating the proposals and conducting interviews, AECOM was selected by the selection panel as the most qualified respondent. It was noted that fees proposed by each firm were not disclosed to the panel members until after all the scores were tabulated.
  - It was discussed that staffs' report includes a table that estimates the expected expenditures for engineering consultant services through Fiscal Year 2014 for the project. However, the District can, should it decide the project is no longer feasible, terminate the contract at any time.
  - The committee discussed that AECOM's fee included an allowance item for future studies. As staff is unable to scope out the details of these studies at this point of the RFP, their fee was reduced down \$200,000 (\$500,000 to \$300,000). Such studies included a corrosion study of how the acquired desalinated water will blend and react with the District's existing facilities. At this moment, staff does not know what additional studies will be required to support this project. It was indicated that staff is comfortable with the identified \$300,000 for studies based on what staff knows today.
  - Staff noted that the project has been discussed with the State Health Department and the International Boundary and Water Commission and the project has received positive feedback.
  - The committee thanked staff for their thoroughness in the evaluation process and indicated that they felt the evaluation process was a well developed program.
  - It was noted that this item is being presented at special meetings to move the work forward a couple weeks to meet the project schedule.

Following the discussion, the Committee supported staffs' recommendation and presentation to the full board at a Special Meeting of the Board of Directors scheduled on October 21, 2010 as an action item.

# EXHIBIT A



P:\WORKING\GIP P24651 Desalination Feasibility Study\Graphics\Exhibits-Figures\Exhibit A.mxd

**EXHIBIT B  
SUMMARY OF PROPOSAL RANKINGS**

**Otay Mesa Conveyance and Disinfection System Project CIP P2451**

		WRITTEN							ORAL						TOTAL SCORE	REFERENCES	
		Qualifications of Staff	Understanding of Scope, Schedule and Resources	Soundness and Viability of Proposed Project Plan	INDIVIDUAL SUBTOTAL - WRITTEN	AVERAGE SUBTOTAL WRITTEN	Proposed Fee*	Consultant's Commitment to DBE	AVERAGE TOTAL WRITTEN	Additional Creativity and Insight	Strength of Project Manager	Presentation, Communication Skills	Quality of Response to Questions	INDIVIDUAL TOTAL - ORAL			AVERAGE TOTAL ORAL
<b>MAXIMUM POINTS</b>		30	25	30	85	85	15	Y/N	100	15	15	10	10	50	50	150	Poor/Good/Excellent
<b>AECOM</b>	Rod Posada	28	20	25	73	74	10	Yes	84	14	14	8	8	44	43	127	Good
	Pedro Porras	22	25	22	69					15	11	8	8	42			
	Ron Ripperger	26	23	27	76					13	14	9	7	43			
	Gary Silverman	27	23	27	77					13	12	8	7	40			
	Daniel Kay	27	23	26	76					13	14	9	9	45			
<b>URS</b>	Rod Posada	27	22	22	71	70	10	Yes	80	14	13	8	8	43	40	120	
	Pedro Porras	23	25	22	70					11	11	8	7	37			
	Ron Ripperger	25	23	25	73					12	13	8	7	40			
	Gary Silverman	25	20	24	69					11	11	7	7	36			
	Daniel Kay	22	23	23	68					14	14	9	9	46			
<b>RBF Consulting</b>	Rod Posada	27	15	20	62	66	13	Yes	79	13	14	8	6	41	36	115	
	Pedro Porras	23	22	21	66					10	10	5	5	30			
	Ron Ripperger	23	22	24	69					12	13	8	7	40			
	Gary Silverman	20	22	19	61					10	9	7	5	31			
	Daniel Kay	24	23	24	71					12	12	7	8	39			
<b>Malcolm Pirnie, Inc.</b>	Rod Posada	29	23	28	80	74	4	Yes	78	15	15	9	10	49	41	119	
	Pedro Porras	24	23	24	71					11	11	8	7	37			
	Ron Ripperger	25	22	23	70					12	12	8	9	41			
	Gary Silverman	27	22	25	74					11	12	8	7	38			
	Daniel Kay	24	23	26	73					13	12	8	8	41			
<b>Carollo</b>	Rod Posada	25	20	20	65	65	15	Yes	80	12	14	8	7	41	37	117	
	Pedro Porras	20	15	18	53					13	11	7	7	38			
	Ron Ripperger	23	22	22	67					12	13	8	8	41			
	Gary Silverman	28	20	25	73					9	10	7	7	33			
	Daniel Kay	26	20	22	68					9	9	6	6	30			
<b>TETRA TECH</b>	Rod Posada	25	18	20	63	68	12	Yes	80	12	12	8	8	40	39	119	
	Pedro Porras	24	22	22	68					15	12	10	10	47			
	Ron Ripperger	24	22	23	69					13	13	8	8	42			
	Gary Silverman	24	21	23	68					11	10	8	6	35			
	Daniel Kay	25	21	24	70					11	8	7	7	33			
<b>Camp, Dresser &amp; McKee, Inc</b>	Rod Posada	28	22	25	75	71	10	Yes	81	15	12	9	9	45	38	119	
	Pedro Porras	25	24	24	73					15	10	8	8	41			
	Ron Ripperger	22	21	22	65					11	10	8	7	36			
	Gary Silverman	26	21	26	73					12	6	7	7	32			
	Daniel Kay	22	24	25	71					10	7	8	9	34			
<b>HDR Engineering, Inc</b>	Rod Posada	28	22	29	79	76	1	Yes	77	15	15	9	9	48	44	121	
	Pedro Porras	27	24	23	74					13	11	8	8	40			
	Ron Ripperger	26	23	25	74					14	14	9	8	45			
	Gary Silverman	27	23	28	78					14	13	9	8	44			
	Daniel Kay	26	23	26	75					13	13	8	8	42			

Review Panel does not see or consider fee when scoring other categories. Fee is scored by the PM, who is not on Review Panel.

Consultant	Proposed Fee	Position	Score
Carollo	\$3,364,207	lowest	15
RBF	\$3,680,135		13
Tetra Tech	\$3,866,993		12
AECOM	\$4,220,297		10
URS	\$4,295,694		10
CDM	\$4,330,791		10
Malcolm Pirnie	\$5,437,098		4
HDR	\$5,998,488	highest	1

# Quality Assurance Approval Sheet

Subject: Award of a Professional Engineering Services  
Contract for the Otay Mesa Conveyance and  
Disinfection System Project to AECOM Technical  
Services, Inc.

Project No.: P2511-001102

Document Description: Staff Report for Special Board Meeting on October 21, 2010

Author:



Signature

10/12/10

Date

BOB KENNEDY

Printed Name

QA Reviewer:



Signature

10/12/10

Date

GARY P. SILVERMAN

Printed Name

Manager:



Signature

10/12/10

Date

RON RIPPERBER

Printed Name