

OTAY WATER DISTRICT
ENGINEERING, OPERATIONS & WATER RESOURCES COMMITTEE MEETING
and
SPECIAL MEETING OF THE BOARD OF DIRECTORS

2554 SWEETWATER SPRINGS BOULEVARD
SPRING VALLEY, CALIFORNIA
Board Room

Thursday
November 20, 2008
4:00 P.M.

This is a District Committee meeting. This meeting is being posted as a special meeting in order to comply with the Brown Act (Government Code Section §54954.2) in the event that a quorum of the Board is present. Items will be deliberated, however, no formal board actions will be taken at this meeting. The committee makes recommendations to the full board for its consideration and formal action.

AGENDA

1. ROLL CALL
2. 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

INFORMATION / ACTION ITEMS

3. AWARD A MAINTENANCE CONTRACT TO LAYFIELD ENVIRONMENTAL SYSTEMS CORPORATION FOR THE MAINTENANCE OF THE FLOATING COVERS ON FOUR POTABLE AND TWO RECYCLED RESERVOIRS IN AN AMOUNT NOT-TO-EXCEED \$119,138 FOR ONE-YEAR AND FOUR ONE-YEAR RENEWAL OPTIONS AT THE DISTRICT'S DISCRETION (PORRAS/STALKER) [5 minutes]
4. AWARD A CONSTRUCTION CONTRACT TO NATGUN CORPORATION IN THE AMOUNT OF \$2,373,220 FOR THE 1296-3 RESERVOIR – 2.0 MG PROJECT (RIPPERGER/KAY) [5 minutes]
5. APPROVE CHANGE ORDER NO. 5 TO THE EXISTING CONTRACT WITH PACIFIC HYDROTECH CORPORATION FOR THE CONSTRUCTION OF THE 640-1 AND 640-2 RESERVOIRS PROJECT IN THE AMOUNT OF <\$432,652.84> (RIPPERGER/BRADEN) [5 minutes]

6. ADJOURNMENT

BOARD MEMBERS ATTENDING:

Jose Lopez, Chair
Gary Croucher

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.

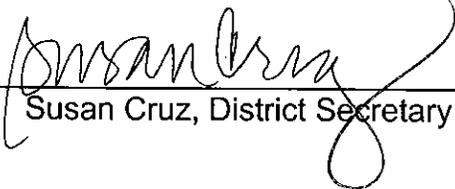
The Agenda, and any attachments containing written information, are available at the District's website at www.otaywater.gov. Written changes to any items to be considered at the open meeting, or to any attachments, will be posted on the District's website. Copies of the Agenda and all attachments are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

If you have any disability that 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 November 17, 2008 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 meeting of the Board of Directors (Government Code Section §54954.2).

Executed at Spring Valley, California on November 17, 2008.



Susan Cruz, District Secretary

AGENDA ITEM 3



STAFF REPORT

TYPE MEETING:	Regular Board	BOARD MEETING DATE:	December 15, 2008
SUBMITTED BY:	Gary Stalker, System Operations Manager	W.O./G.F. NO:	DIV. NO. 5
APPROVED BY: (Chief)	Pedro Porras, Chief of Water Operation		
APPROVED BY: (Asst. GM):	Manny Magaña, Assistant General Manager, Engineering and Water Operations <i>M. Magaña</i>		
SUBJECT:	Award of Contract for Reservoir Floating Cover Maintenance		

GENERAL MANAGER'S RECOMMENDATION:

That the Board award a contract to Layfield Environmental Systems Corporation for the maintenance of the floating covers on four potable and two recycled reservoirs. The contract will be for one year, with four one-year options for renewal at the District's discretion.

COMMITTEE ACTION:

Please see Attachment A.

PURPOSE:

To meet requirements by the California Department of Public Health (CDPH) for periodic maintenance of floating covers, per the American Water Works Association (AWWA) guidelines.

ANALYSIS:

The CDPH is requiring agencies that have potable water reservoirs with floating covers to maintain the covers according to "AWWA's California/Nevada Section Reservoir Floating Cover Guidelines." The maintenance involves cleaning the entire cover, repairing holes and tears, adjusting tensioning devices, and maintaining the rainwater removal system. The District has

four potable reservoirs with floating covers that need to be maintained twice a year. The District also has two recycled reservoirs with floating covers that will be included in the contract to be maintained once a year. The recycled reservoir cover maintenance is not required by CDPH, but will be done as a "Best Management Practice" to extend the useful life of the covers.

Description of Reservoirs

Reservoir Name	Type	Reservoir Surface Area*	Capacity (MG)
571-1 (Roll Res.)	Potable	195,000	36.7
711-3	Potable	157,000	16.0
624-1 (Patzig Res.)	Potable	110,000	12.0
870-1 (Upper Res.)	Potable	97,000	10.9
927-1	Recycled	163,000	16.3
944-1	Recycled	102,000	12.0

*In square feet, approximate area at high-water level

The request for proposals on the contract was advertised on the District website and sent to four prospective bidders on October 14, 2008. Three proposals were received. The proposals were opened, non-publicly, on October 30, 2008 with the following results:

Contractor Amount	Total Amount
Layfield Environmental Systems Corp., El Cajon, CA	\$119,138
Environmental Fabrics, Inc., Orange, CA	\$143,000
Waters Edge Technologies, Inc., Spring Valley, CA	\$165,000

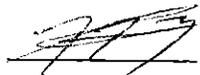
The evaluation process included reviewing all proposals for conformance to the contract documents and a detailed review of related work experience.

All references for Layfield Environmental Systems Corporation (Layfield) were checked and the reports were positive. Layfield has recently performed cover cleaning and maintenance for the City of Carlsbad, the City of Poway, Castaic Lake Water Agency, Pittsburgh Water Authority, and Southern California Edison. The references from all five agencies said they would recommend Layfield and all said they would rehire them. Three agencies have used Layfield repeatedly. Layfield is described as a

reliable, responsible, and accommodating company. Layfield is an industry leader in the design, installation, and maintenance of reservoir floating covers.

Staff is recommending the award of this maintenance contract to Layfield Environmental Systems Corporation in the amount not to exceed \$119,138 for one year. The contract will be for one year, with four one-year options for renewal at the District's discretion. The maximum price for the four option years would be based on the San Diego Consumer Price Index for the previous year.

FISCAL IMPACT:



Staff has budgeted \$210,000 in fiscal year 2009 for this contract to cover all work related to this maintenance.

STRATEGIC GOAL:

This contract supports the Strategic Goal to "Minimize the District's total life cycle asset costs" by maximizing the useful life of the reservoir floating covers.

LEGAL IMPACT:

None



General Manager

Attachment A: Committee Action Form



ATTACHMENT A

SUBJECT/PROJECT:	Award of Contract for Reservoir Floating Cover Maintenance
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COMMITTEE ACTION:

This item will be presented to the Engineering and Operations Committee on November 20, 2008.

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for Board approval. This report will be sent to the Board as a committee approved item, or modified to reflect any discussion or changes as directed from the committee prior to presentation to the full board.

AGENDA ITEM 4



STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	December 15, 2008
SUBMITTED BY:	Daniel Kay <i>DK</i> Associate Civil Engineer	PROJECT/	P2143- DIV. 5
		SUBPROJECT:	001103 NO.
	Ron Grunow <i>RG</i> Sr. Civil Engineer		
	Ron Ripperger <i>RR</i> Engineering Manager		
APPROVED BY:	Rod Posada <i>RP</i> (Chief) Chief, Engineering		
APPROVED BY:	Manny Magaña <i>MM</i> (Asst. GM): Assistant General Manager, Engineering and Operations		
SUBJECT:	Award of a Construction Contract to Natgun Corporation for the 1296-3 Reservoir - 2.0 MG Project		

GENERAL MANAGER'S RECOMMENDATION:

That the Otay Water District (District) Board awards a construction contract to Natgun Corporation (Natgun) in the amount of \$2,373,220 for the 1296-3 Reservoir - 2.0 MG Project (see Exhibit A for project location).

COMMITTEE ACTION: _____

Please see Attachment A.

PURPOSE:

To obtain Board approval authorizing the General Manager to enter into a construction agreement with Natgun in an amount not to exceed \$2,373,220 for the 1296-3 Reservoir Project.

ANALYSIS:

This project consists of constructing a new 2.0 million gallon reservoir adjacent to the two existing 1296 reservoirs located at the end of Bear Mountain Way in Jamul.

According to the 2002 Water Resources Master Plan (WRMP) and the latest information provided by PBS&J, the consultant who is preparing the 2009 WRMP update, the 1296 pressure zone will require 3.03 MG of additional storage to meet the ultimate demand of 6.06 MG. Based on the existing demands, the existing storage of 3.03 MG is deficient by 1.00 MG. The 1296-3 Reservoir will add 2.0 MG of storage to the 1296 service area, resulting in a total storage of 5.03 MG. Ultimately, a 10 MG 1296-4 reservoir will be constructed to make up any deficiencies in the 1296 zone at that time, and provide emergency storage for water supplied from the central area system.

The design of the reservoir included two options, Welded Steel or Type III Concrete. A Type III concrete reservoir is a wire or strand-wound circular prestressed concrete tank. The District has traditionally built welded steel above ground reservoirs of this comparable size, however, due to the high cost of re-coating steel reservoirs, staff reviewed the option of designing a concrete reservoir. Although the initial construction costs of building a concrete reservoir were more expensive, the life cycle cost was much lower than a welded steel reservoir, therefore, staff decided to include the design of each option in the contract documents for bidding purposes.

The scope of work for the project includes a new access road providing easier access for large vehicles, a new 20-inch inlet pipeline and 16-inch outlet pipeline, extensive grading, relocation of a homeowner's water service, acquisition of access easements and temporary construction easements, reservoir appurtenances, and replacement of pavement on Bear Mountain Way.

In order to create a self-sustaining and more environmentally friendly project, a solar power generating system was added to this project. The solar system includes a 75 square-foot photovoltaic panel for generating power, which is tied to the SDG&E power grid. When the demand for power at the site is low, the site has the capability of being self-sufficient.

Staff coordinated with the Jamul-Dulzura Community Planning Group and surrounding homeowners during the planning and design phases of the project to educate the local community on the need for this reservoir. In addition, District staff updated the community groups on the timeframe and activities for construction. Since Bear Mountain Way and Pioneer Way will be disrupted during construction with the hauling of material, staff will notify residents in the area, prior to construction, of the project schedule. Staff will also be available to answer any questions residents may have during the construction period.

According to the Mitigated Negative Declaration adopted by the Board in August of 2008, the construction schedule for this project must

begin before February 15, 2009. This date is the beginning of the breeding season for the California gnatcatcher and the area impacted by this project contains Diegan Coastal Sage Scrub (CSS) which is the gnatcatcher's critical habitat. The mitigation measures for the impacts to CSS include offsite preservation at a ratio of 2:1. The CSS will be preserved in the District's Habit Management Area (HMA).

The design for this project was performed by in-house staff, with support from outside consultants for specialty design disciplines. Southern California Soils & Testing performed geotechnical services, Schiff Associates provided the cathodic protection design, and Engineering Partners Incorporated performed the electrical design.

The project was advertised for bid on the District's website and several other publications including the Union Tribune and San Diego Daily Transcript.

A non-mandatory Pre-Bid Meeting was held on October 14, 2008. A presentation was given by District staff to explain the project and discuss any questions or concerns from the contractors. There were twenty-three (23) contractors that attended the meeting and meeting minutes were published.

Subsequently, three (3) addenda were sent out to all bidders and planhouses to address questions and clarifications to the contract documents during the bidding period. Bids were publicly opened on November 4, 2008 with the following results:

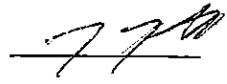
<u>CONTRACTOR</u>	<u>TOTAL ADJUSTED BASE BID AMOUNT</u>	<u>BASE BID AMOUNT</u>	<u>CORRECTED BASE BID AMOUNT</u>
1. Natgun Corporation	\$2,532,720.00	\$2,373,220.00	-
2. Cass Construction	\$2,855,450.00	\$2,695,950.00	-
3. Pacific Hydrotech	\$3,126,500.00	\$2,967,200.00	\$2,967,000
4. LT Engineering	\$3,257,000.00	\$3,117,500.00	\$3,097,500
5. LB Civil Construction	\$3,494,500.00	\$3,335,000.00	-
6. Pacific Coast Infrastructure	\$3,552,337.62	\$3,392,837.62	-
7. TC Construction	\$3,558,500.00	\$3,399,000.00	-

The Engineer's Estimate was \$2,945,000.

Bids were evaluated on the base bid plus the life cycle cost for a welded steel reservoir or a Type III concrete reservoir as shown in the Total Adjusted Base Bid Amount Column. All seven bids were for the construction of a Type III concrete reservoir. The Base Bid Amount Column subtracts the life cycle cost of \$159,500 from the Total Adjusted Base Bid Amount, which is the contract value. The evaluation process included reviewing all bids submitted for conformance to the contract documents. The lowest bidder, Natgun,

submitted a responsible bid and holds a Class A Contractors license which expires on September 30, 2009. References were checked and Natgun was found to be a highly rated company. Staff also verified that it can comply with the bonding requirements for this project.

FISCAL IMPACT:



The total budget for CIP P2143, as approved in the FY 2009 budget, is \$3,640,000. Total expenditures plus outstanding commitments and forecast are \$3,384,176. Based on a review of the financial budget, the Project Manager has determined that the budget is sufficient to support the project. See Attachment B for budget detail.

Finance has determined that 100% of the funding is available from the Expansion Fund.

STRATEGIC GOAL:

This project supports the District's Mission Statement, "To provide safe, reliable water, recycled water and wastewater services to our community in an innovative, cost efficient water wise and environmentally responsible manner," as well as the General Manager's vision, "...prepared for the future..." by guaranteeing the District will always be able to meet future water supply obligations and plan, design, and construct new facilities.

LEGAL IMPACT:

None.



General Manager

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DK/RG/RR/RP:jf

Attachments: Attachment A
Attachment B
Exhibit A



ATTACHMENT A

SUBJECT/PROJECT: P2143-001103	Award of a Construction Contract to Natgun Corporation for the 1296-3 Reservoir - 2.0 MG Project
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COMMITTEE ACTION:

The Engineering, Operations, and Water Resources Committee reviewed this item at a meeting held on November 20, 2008. The Committee supported Staff's recommendation.

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for Board approval. This report will be sent to the Board as a Committee approved item, or modified to reflect any discussion or changes as directed from the Committee prior to presentation to the full Board.



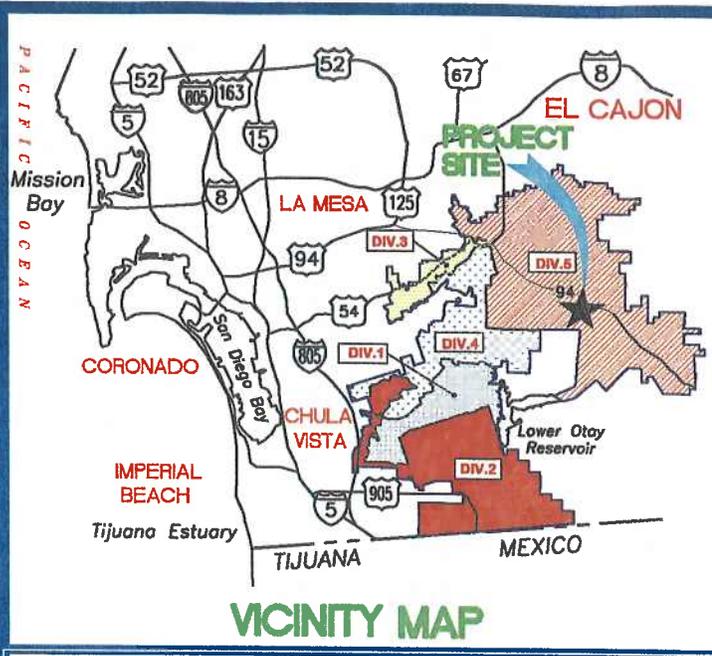
ATTACHMENT B

Otay Water District
P2143 - 1296-3 Reservoir

Date Updated: Oct. 17, 2008

Budget	Committed	Expenditures	Outstanding Commitment & Forecast	Projected Final Cost	Vendor / Comments
\$3,640,000					
Planning					
In House/Labor	138,688.53	138,688.53		138,688.53	
Consultant Contracts	125,000.00	89,075.79	35,924.21	125,000.00	BRG CONSULTING INC
Professional & Legal Fees	330.00	330.00	-	330.00	BURKE, WILLIAMS & SORENSEN LLP
Regulatory Agency Fee	1,926.75	1,926.75	-	1,926.75	COUNTY OF SAN DIEGO
Mileage Reimbursement	22.22	22.22	-	22.22	PETTY CASH CUSTODIAN
Land/Easement Acquisition					
Total Planning	\$ 265,968	\$ 230,043	\$ 35,924	\$ 265,968	
Design					
In House/Labor	337,540	337,540		337,540	
Consultant Contracts	2,450	2,450	-	2,450	SOUTHLAND TITLE
	2,098	2,098	-	2,098	SIMON WONG ENGINEERING
	9,600	9,600	-	9,600	SWINERTON MANAGEMENT
	22,295		22,295	22,295	ENGINEERING PARTNERS INC.
Service Contracts	10,229	10,229	-	10,229	SOUTHERN CALIFORNIA SOIL
Printing	234	234	-	234	I.M.P.A.C. GOVERNMENT SERVICE
Mileage Reimbursement	19	19	-	19	PETTY CASH CUSTODIAN
Parking & Tolls	47	47	-	47	PETTY CASH CUSTODIAN
Business Meetings	132	132	-	132	PETTY CASH CUSTODIAN
Advertise and Award	391	391	-	391	SAN DIEGO DAILY TRANSCRIPTS
Service Contracts	12,395		12,395	12,395	ProWest Appraisals
	237	237	-	237	UNION TRIBUNE PUBLISHING CO
Total Design	\$ 397,666	\$ 362,977	\$ 34,690	\$ 397,667	
Construction					
In House/Labor	100,000	5,155	94,845	100,000	
Construction Contracts	2,373,220		2,373,220	2,373,220	Natgun Corporation
Contingency (10%)	237,322		237,322	237,322	
Accpt/close-out	10,000		10,000	10,000	
Total Construction	\$ 2,720,542	\$ 5,155	\$ 2,715,387	\$ 2,720,542	
Grand Total	\$ 3,384,176	\$ 598,175	\$ 2,786,001	\$ 3,384,176	

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**OTAY WATER DISTRICT
1296-3 RESERVOIR
LOCATION MAP**

CIP P2143

EXHIBIT A

AGENDA ITEM 5



STAFF REPORT

TYPE MEETING:	Regular Board	MEETING DATE:	December 15, 2008
SUBMITTED BY:	H. Damon Braden  Senior Civil Engineer	PROJECT/ SUBPROJECT:	P2185-003103 DIV.NO. 5
	Ron Ripperger  Engineering Manager		
APPROVED BY: (Chief)	Rod Posada  Chief, Engineering		
APPROVED BY: (Asst. GM):	Manny Magaña  Assistant General Manager, Engineering and Operations		
SUBJECT:	Change Order No. 5 to the Agreement with Pacific Hydrotech Corporation for Construction of the 640-1 and 640-2 Reservoirs Project		

GENERAL MANAGER'S RECOMMENDATION:

That the Otay Water District (District) Board approves Change Order No. 5 to the existing contract with Pacific Hydrotech Corporation (Pacific Hydrotech) for construction of the 640-1 and 640-2 Reservoirs Project in the amount of <\$432,652.84> (see Exhibit A for project location).

COMMITTEE ACTION:

Please see Attachment A.

PURPOSE:

To obtain Board authorization for the General Manager to execute Change Order No. 5 (see Exhibit B) for <\$432,652.84> to the contract with Pacific Hydrotech for the construction of the 640-1 and 640-2 Reservoirs Project.

ANALYSIS:

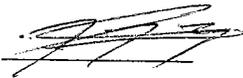
At the December 6, 2006 Board Meeting, Pacific Hydrotech was awarded the construction agreement for the 640-1 and 640-2 Reservoirs Project. The project construction began in January 2007 and is now complete.

Change Order No. 5 is the Reconciliation Change Order designed for the final contract amount to be consistent with the final invoice for the project. Change Order No. 5 reconciles all outstanding issues associated with the project. It consists of eleven items. In the case of deductive changes, the unused portions of line items or allowances are credited. A summary of each item follows:

ITEM	DESCRIPTION	AMOUNT
1	RFP 005: Disinfection Changes for O&M ease.	\$0
2	RFP 007: Change 36" (FCF14) connection point.	\$57,168.79
3	RFP 008: Addition of 20" valves for flexibility.	\$63,212.93
4	RFP 009: Change to tank roofing material.	<\$95,503.00>
5	RFP 010: Piping modifications for 520 zone.	\$95,524.39
6	RFP 011: Grading and Paving changes.	\$100,218.98
7	RFP 012: AT&T Relocation at vaults 5 & 6.	\$48,374.13
8	RFP 013: Various site modifications.	\$33,350.94
9	Bid Item 11 Credit	<\$40,000>
10	Bid Item 14 Credit	<\$650,000>
11	Bid Item 16 Credit	<\$45,000>
TOTAL		<\$432,652.84>

The project's construction management team, RBF Consulting (RBF), reviewed the costs submitted by Pacific Hydrotech for all items listed above and found that the prices were reasonable for the scopes of work involved. Based on the above analysis Staff recommends approving Change Order No. 5 for a net decrease in the contract in the amount of <\$432,652.84>.

FISCAL IMPACT:



The approved total budget for CIP P2185 is \$28,500,000. Expenditures to date are \$27,174,111. Total commitments to date, including this Change Order, are approximately \$28,049,176. This change order reduces the contract amount by <\$432,652.84>. The Change Order Log in Exhibit B provides a history of approved change orders to date. See Attachment B for budget details.

As determined by Finance, funding for this project is available from the Expansion Fund (53%) and the Betterment Fund (47%).

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, efficient, and sensitive manner..." This project fulfills the District's Strategic Goals No. 1 - Community and Governance, and No. 5 - Potable Water, by maintaining proactive and productive relationships with the project stakeholders and by guaranteeing that the District will provide for current and future water needs.

LEGAL IMPACT:

None.



General Manager

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HDB/RR/RP:jf

Attachments: Attachment A
 Attachment B
 Exhibit A
 Exhibit B



ATTACHMENT B

Subject/Project: Change Order No. 5 to the Agreement with Pacific Hydrotech Corporation
 P2185-003103 for Construction of the 640-1 and 640-2 Reservoirs Project

Otay Water District
 P2185 - Res - 640-1 Reservoir 20.0 MG

Date Updated: Nov. 06, 2008

Budget	Committed	Expenditures	Outstanding Commitment & Forecast	Projected Final Cost	Vendor / Comments
\$26,500,000					
Planning					
Studies					
In House/Labor	123,045.39	123,045.39		123,045.39	
Printing	223.58	223.58		223.58	Tiger Reprographics
Office Supplies	25.05	25.05		25.05	Petty Cash Custodian
Consultant Contracts	810,733.91	810,733.91		810,733.91	Infrastructure Engineering Corp
	750.00	750.00		750.00	San Diego Gas & Electric
Professional & Legal Fees	466.90	466.90		466.90	Garcia,Calderon & Ruiz
Subcontract	175,783.84	175,783.84		175,783.84	
	153,831.91	153,831.91		153,831.91	
Chemical Feed Systems	362.25	362.25		362.25	Bob Turner's Crane Services Inc.
	6,169.48	6,169.48		6,169.48	Core-rosion Products
Service Contracts	63.80	63.80		63.80	Sedona Staffing
Postage	26.57	26.57		26.57	Fed-Ex
Land/Easement Acquisition	39,000.00	39,000.00		39,000.00	Wildlands Inc
Total Planning	\$ 1,310,483	\$ 1,310,483	\$ -	\$ 1,310,483	
Design					
In House/Labor	330,328	330,328		330,328	
Consultant	4,705	4,705		4,705	WRA & Associates
Subcontract	8,500	8,500		8,500	E & J Weed Abatement Co.
	682	682		682	Environmine
	7,800	7,800		7,800	Fire Prevention Services Inc.
	9,711	9,711		9,711	John Powell & Associates
	600	600		600	Pacific Southwest Biological
Regulatory Agency Fee	1,250	1,250		1,250	State of California
Office Supplies	15	15		15	Petty Cash Custodian
Materials	537	537		537	Traffic Control Services Inc
	152	152		152	Allied Trench Shoring Services
Service Contracts	2,228	2,228		2,228	Mcgraw-Hill Construction
	15,168	15,168		15,168	OCB Reprographics
	528	528		528	San Diego Daily Transcript
	2,225	2,225		2,225	Union Tribune Publishing
Advertise and Award					
Total Design	\$ 384,429	\$ 384,429	\$ -	\$ 384,429	
Construction					
In House/Labor	422,017	402,017	20,000	422,017	
Subcontract	118,929	118,929		118,929	Boyle Engineering
Mileage	4	4		4	Petty Cash Custodian
Business Meetings	19	19		19	Petty Cash Custodian
Materials	18,878	18,878		18,878	Consumers Pipe & Supply Co
	2,073	2,073		2,073	Grainger Inc.
	125	125		125	Graybar Electric Co Inc.
	3,881	3,881		3,881	MAG Systems Inc.
	3,283	3,283		3,283	Mcmaster-Carr Supply Co
	5,894	5,894		5,894	Minarik Corporation
	263	-	263	263	Moore Industries Int'l Inc.
	5,466	5,466		5,466	National Waterworks Inc.
	3,153	3,153		3,153	Newark
	122	122		122	Office Depot
	4,170	4,170		4,170	Onesource Distributors LLC
	90	90		90	Petty Cash Custodian
Temporary Labor	383	383		383	Sedona Staffing
Shipping	21	21		21	Fed-Ex
Consultant Contracts	2,955	2,955		2,955	Engineering Partners Inc.
	36,266	28,664	7,602	36,266	Infrastructure Engineering Corp
	5,300	5,300		5,300	JC Heden & Associates Inc.
	1,196,735	1,174,589	22,146	1,196,735	RBF Consulting
Construction Contracts	24,894,000	23,637,275	1,256,725	24,894,000	Pacific Hydrotech Corporation
	116,562	116,562		116,562	Pacific Hydrotech Corporation CO1
	(122,112)	(122,112)		(122,112)	Pacific Hydrotech Corporation CO2
	8,757	8,757		8,757	Pacific Hydrotech Corporation CO3
	(4,846)	(4,846)		(4,846)	Pacific Hydrotech Corporation CO4
	(432,653)		(432,653)	(432,653)	Pacific Hydrotech Corporation CO5
Retention	23,377	23,377		23,377	San Diego Gas & Electric
Professional & Legal Fees	258	258		258	Burke Williams & Sorensen LLP
	612	612		612	Garcia,Calderon & Ruiz
Service Contracts	40	40		40	Allied Electronics Inc.
	12,437	12,437		12,437	Applied Tech Group Inc.
	119	119		119	Black Box Corporation
	358	358		358	Grainger Inc.
	15	15		15	Lewis Engraving
	10,920	10,920		10,920	Minarik Corporation
	3,558	3,558		3,558	Newark
	3,204	3,204		3,204	Onesource Distributors LLC
	66	66		66	Radioshack Corp.
	650	650		650	San Diego Daily Scrips
	8,914	7,933	981	8,914	Techknowsion Inc.
OWD to Pay CWA for FCF 14 Acpt/close-out					
Total Construction	\$ 26,354,264	\$ 25,479,189	\$ 875,065	\$ 26,354,264	
Grand Total	\$ 28,049,176	\$ 27,174,111	\$ 875,065	\$ 28,049,176	



ATTACHMENT A

SUBJECT/PROJECT: P2185-003103	Change Order No. 5 to the Agreement with Pacific Hydrotech Corporation for Construction of the 640-1 and 640-2 Reservoirs Project
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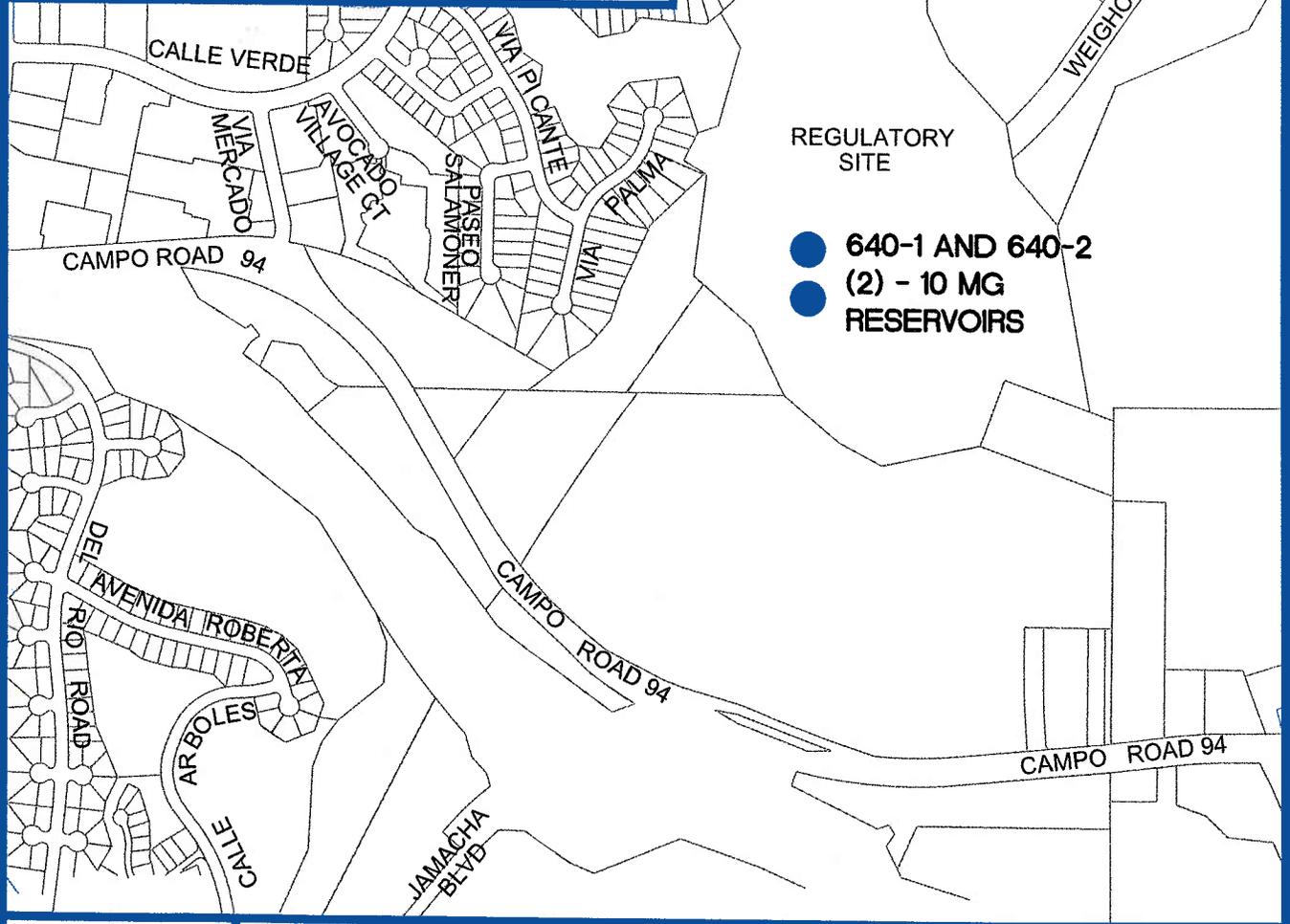
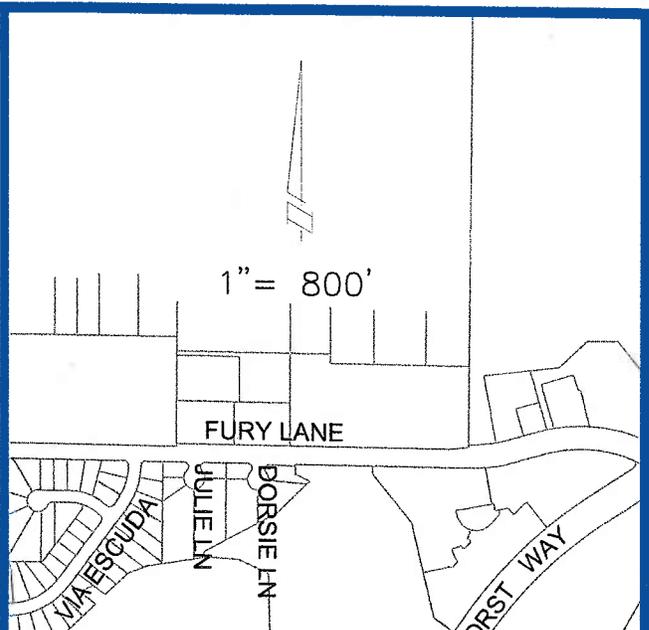
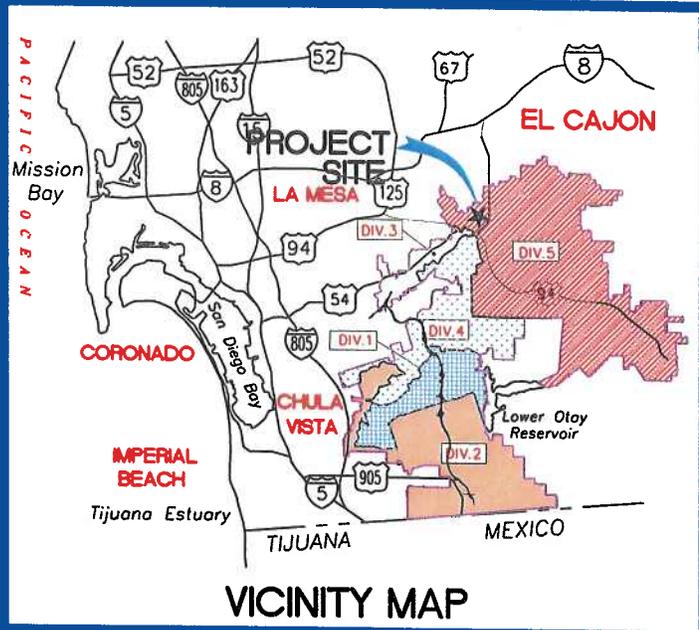
COMMITTEE ACTION:

The Engineering, Operations, and Water Resources Committee reviewed this item at a meeting held on November 20, 2008. The Committee supported Staff's recommendation.

NOTE:

The "Committee Action" is written in anticipation of the Committee moving the item forward for Board approval. This report will be sent to the Board as a Committee approved item, or modified to reflect any discussion or changes as directed from the Committee prior to presentation to the full Board.

P:\WORKING\CIP_00185\WO_30018\Graphics\Exhibits-Figures\640-1 RES SITE.dwg 11/6/2006 11:08:02 AM PST



OTAY WATER DISTRICT

640-1 AND 640-2 RESERVOIRS
LOCATION MAP

CIP P2185

CONTRACT/P.O. CHANGE ORDER No. 5

PROJECT/ITEM: 640-1 (10MG) & 640-2 (10MG) Reservoirs

CONTRACTOR/VENDOR: Pacific Hydrotech Corporation

REF.CIP No.: P2185-003103

APPROVED BY: Board:

REF. P.O. No: 705704

REF. W.O. No.: 30018

DATE: 10/20/2008

DESCRIPTION:

See attached page 2 of 4 for continuation.

REASON:

See attached page 3 of 4 for continuation.

CHANGE P.O. TO READ:

Revise Contract to deduct \$432,652.84 and 0 days time for a total Contract amount of \$24,459,709.03 with a Contract Duration of 668 Calendar Days.

ORIGINAL CONTRACT/P.O. AMOUNT:	\$	24,894,000.00
ADJUSTED AMOUNT FROM PREVIOUS CHANGE:	\$	24,892,361.87
TOTAL COST OF THIS CHANGE ORDER:	\$	(432,652.84)
NEW CONTRACT/P.O. AMOUNT IS:	\$	24,459,709.03
ORIGINAL CONTRACT COMPLETION DATE:		Sep 6, 2008
CONTRACT/P.O. TIME AFFECTED BY THIS CHANGE:		0 days
CONTRACT COMPLETION DATE:		Nov 13, 2008

IT IS UNDERSTOOD WITH THE FOLLOWING APPROVALS, THAT THE CONTRACTOR/VENDOR IS AUTHORIZED AND DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES. IT IS ALSO AGREED THAT THE TOTAL COST FOR THIS CHANGE ORDER CONSTITUTES FULL AND COMPLETE COMPENSATION FOR OBLIGATIONS REQUIRED BY THE CONTRACT/P.O. ALL OTHER PROVISIONS AND REQUIREMENTS OF THE CONTRACT/P.O. REMAIN IN FULL FORCE AND EFFECT.

CONTRACTOR/VENDOR:

TITLE: _____ DATE: _____
DATE: _____

ADDRESS: Pacific Hydrotech Corporation

314 E 3rd Street, Perris, CA 92570

STAFF APPROVALS:

PROJ. MGR. _____ DATE: _____

DIV. MGR: _____

CHIEF: _____ DATE: _____

ASSIST G.M.: _____ DATE: _____

DISTRICT APPROVAL:

GEN. MANAGER: _____ DATE: _____

COPIES: FILE (Orig.), CONTRACTOR/VENDOR, CHIEF.-ENGINEERING., ASST CHIEF.-FINANCE ENGR. MGR.
 ACCTS PAYABLE INSPECTION PROJ MGR ENGR. SECRETARY PURCHASING

Description of Work

<u>Description</u>	<u>Increase</u>	<u>Decrease</u>	<u>Time</u>
<u>Item No. 1:</u> RFP 005 This Change Order provides for additional costs for revisions to the mechanical and electrical layout of the Sodium Hypochlorite and Ammonia pumps to facilitate ease of maintenance and operations, per RFP 005.	\$0.00	\$0.00	0
<u>Item No. 2:</u> RFP 007 This Change Order provides for additional costs for revisions to the on-site connection point of the future 36-inch potable water pipeline from FCF 14 to relocate the future connection point outside the site access road, per RFP 007.	\$57,168.79		0
<u>Item No. 3:</u> RFP 008 This Change Order provides for additional costs for incorporation of additional valves as part of the 20-inch pipeline tie-in for increased flexibility in moving water through the site, per RFP 008.	\$63,212.93		0
<u>Item No. 4:</u> RFP 009 This Change Order provides for a credit for substituting the specified asphalt and rock roofing materials atop both reservoirs with a colored concrete stain to comply with the environmental documentation requirement to have the roof color blend in with the surrounding hills, per RFP 009.		\$95,503.00	0
<u>Item No. 5:</u> RFP 010 This Change Order provides for additional costs associated with piping modifications to connect the existing 520 zone reservoirs to the 520 zone distribution system for increased flexibility in distribution of water between reservoir elevations, per RFP 010.	\$95,524.39		0
<u>Item No. 6:</u> RFP 011 This Change Order provides for net additional costs associated with modifications to the desilting basin to create a paved staging/work area, creating of a paved staging/work area, grading modifications and modifications to site ribbon and brow ditches to ensure proper drainage of stormwater during rain events, per RFP 011.	\$100,218.98		0
<u>Item No. 7:</u> RFP 012 This Change Order provides for reimbursement of additional costs associated with AT&T Relocation for installation of Vault 5 and 6, per RFP 012.	\$48,374.13		0
<u>Item No. 8:</u> RFP 013 This Change Order provides for net additional costs associated with various site modifications including relocation of fencing limits, installation of new gates, removal of additional concrete encasement at Vault 6 connection and other piping modifications to account for field conditions, per RFP 013.	\$33,350.94		0
<u>Item No. 9:</u> This Change Order decreases the amount allocated for Bid Item 11, Soundwall Barrier Allowance by \$40,000.00 to a new authorized amount of \$0.00.		40,000.00	0
<u>Item No. 10:</u> This Change Order decreases the amount allocated for Bid Item 14, Unknown and/or Unidentified Utilities by \$650,000.00 to a new authorized amount of \$0.00.		650,000.00	0
<u>Item No. 11:</u> This Change Order decreases the amount allocated for Bid Item 16, Allowance for Potholing by \$45,000.00 to a new authorized amount of \$0.00.		45,000.00	0
Sub Total Amount	\$397,850.16	\$830,503.00	0
Total Net Change Order Amount	<u>(\$432,652.84)</u>		

Revisions to: BID SCHEDULE

Item #	Description	Quantity	Unit	Unit Price	Amount
11	Soundwall Barrier Allowance	LS	LS	LS	0.00
13	Unknown and/or Unidentified Utilities	LS	LS	LS	0.00
16	Allowance for Potholing	LS	LS	LS	0.00

Reason:Item No. 1: RFP 005

Subsequent to beginning construction it was discovered that the new Sodium Hypochlorite and Ammonia Pumps were not laid out in a manner conducive to ease of operation and maintenance. This realization resulted in concerted efforts by OWD Operations personnel to work with the Construction Manager to develop a desired mechanical layout for implementation. This Change Order is required to compensate the Contractor for the additional costs resulting from the mechanical and electrical revisions.

Item No. 2: RFP 007

Subsequent to beginning construction it was discovered that the connection point for the future 36-inch potable line from SDCWA FCF 14 was in a location congested with existing waterlines, the main electric and telecommunications feed to the site and beneath the main access road. This Change Order is required to compensate the Contractor for the additional pipe to relocate the connection point away from the existing utilities and out of the main access road which will result in a cost savings on the construction for the 36-inch potable line construction.

Item No. 3: RFP 008

Subsequent to beginning connection and tie-in work at Vaults 5 and 6 it was discovered that through the installation of two additional valves and an air/vacuum release valve additional flexibility and redundancy could be achieved in the connection. Though these valves will be closed under normal operations, their installation will allow the District to change the direction of flow to the site for future pipeline inspections or in the event of emergency by opening the valves and closing other valves. This Change Order is required to compensate the Contractor for the additional costs resulting from procurement and installation of the additional components.

Item No. 4: RFP 009

Subsequent to completion of the reservoirs it was determined that the specified asphalt and rock roof system could not be installed in a color that would blend into the surroundings per the environmental documentation. After significant discussion with local community groups and determination of the design intent of the asphalt and rock roof it was determined that the most feasible alternative to satisfy the permit conditions was to procure and install a concrete stain on the roofs of the reservoirs. This option will minimize future maintenance obligations while providing a color choice that is tailored to the site background colors. This Change Order is required for the District to realize the credit for the material and process substitution for the scope associated with this change.

Item No. 5: RFP 010

Subsequent to demolition of the existing 520-1 reservoir it was determined that the ability to use the existing 520-2 and 520-3 reservoirs to feed into the 520 zone distribution system would be removed following to the installation of the new 36-inch potable feed line from SDCWA FCF 14. This realization resulted in the development of a plan to implement a permanent connection to permit gravity flow from the 520 zone reservoirs into the 520 zone distribution system through the installation of approximately 120 LF of new 20-inch ductile iron pipe with associated fittings and valving. This Change Order is required to compensate the Contractor for the additional costs resulting from implementation of this additional scope.

Item No. 6: RFP 011

Subsequent to beginning layout for the new desilting basin it was discovered that the size and orientation of the basin impacted the ability to create a level paved equipment staging area. The new layout also enhances mechanized access to use and clean the basin. The scope of this change order also encompasses multiple grading and paving modifications incorporated into the site for increased drainage performance and modifications accounting for field conditions. This Change Order is required to compensate the Contractor for the additional costs associated with implementation of these modifications.

Item No. 7: RFP 012

Subsequent to initiating contact with AT&T it was discovered that previously unknown costs were imposed on the Contractor that required payment before relocation of AT&T utilities would commence. These costs were unknown at time of bid and could not have been anticipated by the Contractor for incorporation into their bid. This Change Order is required to compensate the Contractor for the actual costs associated with charges imposed by AT&T for their utility relocation work on the project site.

Item No. 8: RFP 013

Subsequent to beginning construction, it was determined that minor adjustments to site work and differing site conditions associated with connection and tie-in work on the 16-inch, 20-inch, pipeline 2 and Vault 3 work scope resulting in additional costs including but not limited to site modifications including relocation of fencing limits, installation of new gates, removal of additional concrete encasement at Vault 6 connection and other piping modifications to account for field conditions. This Change Order is required to compensate the Contractor for incorporation of the additional scope associated with differing site conditions, field conditions and Owner requested modifications.

Item No. 9:

The Contract Allowance Bid Item, Item No. 11, Soundwall Barrier Allowance, was utilized to the maximum practical extent in the performance of the contract work and is no longer required.

Item No. 10:

The Contract Allowance Bid Item, Item No. 14, Unknown and/or Unidentified Utilities, was utilized to the maximum practical extent in the performance of the contract work and is no longer required.

Item No. 11:

The Contract Allowance Bid Item, Item No. 16, Allowance for Potholing, was utilized to the maximum practical extent in the performance of the contract work and is no longer required.

CHANGE ORDER LOG

640-1 (10MG) & 640-2 (10MG) Reservoirs

P2185
WO NO. 30018

C.O.	AMOUNT	APPROVED		DESCRIPTION	TYPE C.O.
		BY	DATE		
1	\$116,562.26	Board	7/30/2007	1. Differing Site Condition beneath Tank 2 and Modified Soil Backfill Requirements	Differing Site Condition
2	(\$122,112.16)	Board	8/23/2007	1. Increased pipe wall thickness for Inlet/outlet pipelines. 2. Decrease BI 14 Suspension of Blasting Operations	Design Change
3	\$8,757.33	Manager	3/14/2008	1. Security Guard (50% cost) from 06/22/2007 to 10/22/2007 2. 5 Rain Days for 02/2007	Differing Site Condition
4	(\$4,845.56)	Board	5/7/2008	1. Deep Tie-ins 2. Decrease BI 12 Reg Waste Mat Removal and Disposal 3. Decrease BI 13 Specialist in HAZ and REG Waste	Differing Site Condition
5	(\$432,652.84)	Board		1. Sodium Hypochlorite and Ammonia Pump Mods 2. Future 36-inch connection point 3. Additional Valves 4. Reservoir Roof Credit 5. 520 Gravity Zone Pipe Mods 6. Desilting Basing/ Paving Mods 7. AT&T Relocation Costs 8. Various Site Modifications 9. Delete Soundwall Bid Item 10. Delete Unknown and/or Unidentified Utilities Bid Item 11. Delete Allowance for Potholing Bid Item.	Multiple
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Total C.O.'s To Date:	(\$434,290.97)	-1.74%
Original Contract Amount:	\$24,894,000.00	
Current Contract Amount:	\$24,459,709.03	

Change Order Breakdown for the Month:

Month	Net C.O.\$	Limit	Authorization	Absolute C.O.\$	Absolute C.O. %
11/08	\$0.00	\$5,000/5%	PM/Supervisor	\$0.00	0.0%
		\$10,000/5%	Manager	\$0.00	0.0%
		\$21,000/20%	Chief	\$0.00	0.0%
		\$50,000/30%	GM	\$0.00	0.0%