

**NOTICE OF REGULAR MEETING  
OF THE  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
ENGINEERING COMMITTEE**

**Thursday, April 8, 2010**

**8:30 a.m.**

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee has been scheduled to be held on **Thursday, April 8, 2010 at 8:30 a.m.** at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California

*THE SOCWA MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.) PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5421 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.*

*AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ENGINEERING COMMITTEE IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE ENGINEERING COMMITTEE ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE ENGINEERING COMMITTEE LESS THAN 72 HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE ENGINEERING COMMITTEE MEMBERS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE ENGINEERING COMMITTEE MEETING ROOM.*

**AGENDA**

1. Review/Approval of Meeting Minutes (January '10)
2. Review of Proposals for the Coastal Treatment Plant Primary Upgrade Phase II Design
3. Review Status of San Juan Creek Ocean Outfall Junction Structure Upgrade (Project Committee 5)
4. J. B. Latham Treatment Plant East Plant Improvements Construction Progress Report (Project Committee 2)
5. Review of Proposed Scope of Services for the J. B. Latham Treatment Plant Strategic Plan (Project Committee 2)

**NOTICE OF ENGINEERING COMMITTEE**

April 8, 2010

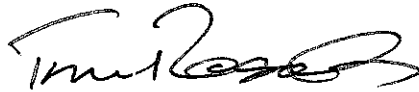
Page 2 of 2

- 6 Regional Treatment Plant Headworks Upgrade Construction Progress Report  
(Project Committee 17)
- 7 Review of Request for Proposals for Plant 3A Infrastructure Repair Design Services  
(Project Committee 3A)
- 8 Public Comments on Items 1, 2, 3, 4, 5, 6 and 7.

I hereby certify that the foregoing Notice was personally emailed, faxed or mailed to each member of the SOCWA Engineering Committee at least 72 hours prior to the scheduled time of the Regular Meeting referred to above

I hereby certify that the foregoing Notice was posted at least 72 hours prior to the time of the above-referenced Engineering Committee at the usual agenda posting location of the South Orange County Wastewater Authority

Dated this 30th day of March 2010.



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Thomas R Rosales, General Manager/Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

# Engineering Committee Agenda Item

Meeting Date: April 8, 2010

Agenda Item No.: 2

Action Required: Yes

**TO:** SOCWA Engineering Committee, Project Committee 15

**FROM:** Brian Peck, Director of Engineering

**SUBJECT:** Coastal Treatment Plant Primary Treatment Upgrade – Phase II Design Proposals

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## Scope

The scope for the Primary Treatment Phase II project includes the following items:

- Replacement of sludge collectors in three rectangular primary sedimentation basins
- Replacement of scum skimmers in two rectangular primary sedimentation basins; replacement of scum skimmer drives in five rectangular primary sedimentation basins
- Replacement of covers on three grit basins and five primary sedimentation basins with new aluminum covers
- Miscellaneous structural repairs.

## Proposals Received

Requests for Proposals were sent to the following five firms:

- Brown and Caldwell
- Carollo Engineers
- Dudek
- HDR
- Lee & Ro

All five firms submitted proposals.

## Proposal Review Materials

The following proposal review materials are attached for Engineering Committee member review:

- Proposals (only to Project Committee 15 members)
- Summary forms comparing the key characteristics of each proposal (e.g. team, total labor hours)
- Proposal evaluation form
- Request for Proposals.

### Proposal Evaluation Forms

These forms are provided for your reference and record. We will not total any scores unless we are unable to reach consensus regarding the selected firm.

### Requested Action

The Engineering Committee will be asked to review the proposals and recommend a firm for contract award to the Board of Directors.

COASTAL TREATMENT PLANT PRIMARY TREATMENT UPGRADE – PHASE II DESIGN

PROPOSAL EVALUATION SHEET

EVALUATOR NAME \_\_\_\_\_ DATE \_\_\_\_\_

PROPOSAL STRENGTH COMPARISON  
(Scale is 1 to 10 – 10 being high – unless noted otherwise)

CRITERIA	BROWN AND CALDWELL	CAROLLO	DUDEK	HDR	LEE & RO
TEAM AND PM QUALIFICATIONS (1 – 10)					
SIMILAR EXPERIENCE (1-10)					
APPROACH TO WORK (1-10)					
TEAM AVAILABILITY (1-5)					
QUALITY CONTROL (1-5)					
SCHEDULE (1-5)					
ABILITY TO WORK WITH BASIC SOCWA CONTRACT (1-5)					

COASTAL TREATMENT PLANT PRIMARY TREATMENT UPGRADE – PHASE II DESIGN

PROPOSAL EVALUATION SHEET (cont'd)

CRITERIA	BROWN AND CALDWELL	CAROLLO	DUDEK	HDR	LEE & RO
ESTIMATE OF EFFORT (1-10)					
TOTAL					

Note: The final selection will be based on a vote of the participating parties (1 vote each for EBSD, CLB, MNWD, SCWD and SOCWA). The total scoring presented above is for reference and is not binding in the recommendation of a selected firm

RECOMMENDATION AND COMMENTS ADDITIONAL SHEET IF NEEDED

# PROPOSAL SUMMARY



South Orange County Wastewater Authority

## PROJECT: COASTAL TREATMENT PLANT PRIMARY TREATMENT UPGRADE – PHASE II DESIGN SERVICES

FIRM	Brown and Caldwell	Carollo	Dudek	HDR	Lee & Ro
PROJECT MANAGER	Ken Fonda	Dennis Wood	Tom Falk	Guillermo Garcia	Dave Bachtel
PROJECT ENGINEER	Ed Matthews	-	-	Chandrikaa Balendhran	-
PRINCIPAL	Victor Occaino	Doug Lanning	Mike Metts	-	Dhiru Patel
QUALITY CONTROL ADDRESSED?	Mike Anderson identified as lead.	Described on Pages 3 and 4.	Team member identified on Page 6.	Sam Abi Samra identified as lead.	Team members identified on Pages 4 and 5.
EXPERIENCE	Largely reference work for SOCWA	Strong experience shown in clarifiers and concrete repair.	Secondary clarifier work identified for Encina and Coachella	Two strong rectangular clarifier projects referenced.	Three good rectangular primary projects described.
SCHEDULE	Complete project by Aug 31, 2010.	Complete project by Nov 8, 2010.	Complete project by Oct 11, 2010.	Complete project by Aug 10, 2010.	Complete project by Sept 21, 2010.
TOTAL LABOR HOURS	347	472	595	492	544
STAFF AVAILABILITY	On Page 7 simply remark that staff is available.	Sufficient availability noted on Page 7.	On Page 6 simply remark that staff is available.	Sufficient availability noted on Page 2 and 3.	Sufficient availability noted on Page 6.
NO. OF DRAWINGS	17	21	16	15	17
EXCEPTIONS TO GENERAL SOCWA AGREEMENT?	Series of changes proposed on Page 7.	None.	None	None	None
MEET PROPOSAL REQUIREMENTS?	Yes	Yes	Yes	Yes	Yes

# **REQUEST FOR PROPOSALS**

*(revised per Addendum No.1)*

## **FOR THE ENGINEERING SERVICES FOR THE PRIMARY TREATMENT UPGRADE – PHASE II AT THE COASTAL TREATMENT PLANT**

### GENERAL DESCRIPTION OF SERVICES REQUIRED

The South Orange County Wastewater Authority (SOCWA), a Joint Powers Authority, and several of its Member Agencies intend to retain a qualified FIRM to prepare designs for miscellaneous improvements to the Coastal Treatment Plant. The improvements include the following items:

- Replacement of sludge collectors in three rectangular primary sedimentation basins
- *Upgrade of scum skimmers in five rectangular primary sedimentation basins including the replacement of five scum skimmer drives and three scum skimmers*
- Replacement of covers on three grit basins and five primary sedimentation basins with new aluminum covers
- Miscellaneous structural repairs.

### RECEIPT OF PROPOSALS

Eight (8) stapled copies of your proposal, signed by an officer of the FIRM who is authorized to execute legally binding agreements shall be delivered to: Brian Peck, SOUTH ORANGE COUNTY WASTEWATER AUTHORITY, 34156 Del Obispo Street, Dana Point, CA 92629 no later than 3:00 p.m. on March 24, 2010. Late proposals will be returned unopened to the respondent.

### PROPOSAL AND SITE INQUIRIES

A pre-proposal meeting will be held at the Coastal Treatment Plant at 10:30 a.m. on March 4, 2010. This meeting allows FIRMS to ask questions of staff and to investigate the site firsthand.

Should a FIRM desire additional information prior to submitting a proposal, please contact Brian Peck at (949) 234-5411.

SOCWA will not be held responsible for any verbal instructions or information that may be provided to prospective respondents. All addenda will be in writing and will be sent to all proposers.

## BACKGROUND

There are five primary sedimentation basins at the Coastal Treatment Plant. Two of these basins (called E1 and E2) were constructed in 1967. The other three primary sedimentation basins (called W1, W2 and W3) were constructed in 1982. The sludge collector equipment in Basins E1 and E2 were replaced as part of the Primary Treatment Upgrade Phase I project. The second phase of the project is intended to replace both the sludge collector and the scum skimmers in the three west primary sedimentation basins. SOCWA has a goal of standardizing the collector equipment between treatment facilities where feasible.

The covers on the five basins date to the original construction of the basins. SOCWA desires to install new aluminum covers similar to those used at other SOCWA facilities

## *SCOPE OF UPGRADE*

*The design is to include the following elements:*

- *replacement of sludge collectors in three rectangular primary sedimentation basins*
- *upgrade of scum skimmers in five rectangular primary sedimentation basins including the replacement of five scum skimmer drives and three scum skimmers*
- *electrical design for new collectors and skimmers shall be based on new local control station and manual disconnect (at each device), replacement of power and instrumentation wiring (existing conduit to remain), and new buckets at the motor control center*
- *structural modifications as needed to accommodate new collectors, skimmers and skimmer drives*
- *replacement of covers on three grit basins and five primary sedimentation basins with new aluminum covers*
- *structural repair and removal of fasteners at openings for original covers*
- *repair of spalling and cracking around the grit basins and the primary sedimentation basins – design should be based on minor repairs at 15 locations*
- *repair of leaking joints in wall of Aeration Basin E3*
- *repair joint between grit basins and east primary sedimentation basins*
- *install new aluminum stair and landing at Headworks Building loading dock*
- *repair leaking cracks in exterior of wall in Aeration Basin W2*

- *repair leaking joints at Aeration Basin influent and effluent channels in two locations where the original design accounted for the future expansion of the basins.*

### SCOPE OF SERVICES

The following shall be considered to be a preliminary scope of services; your proposal may include those modifications to this scope of services that you deem desirable or necessary based upon your experience or expertise.

Tasks are to include the following:

#### I. OVERALL PROJECT

- A. Meetings. FIRM shall attend up to three kick-off and/or progress meetings at the SOCWA offices.
- B. General Contract Document Review. The general contract documents will be prepared and submitted by SOCWA to the FIRM at the 50% submittal. FIRM shall review and provide comment for final preparation by SOCWA.
- C. Cost Estimate. FIRM will provide an updated cost estimate with each submittal. Cost estimate will be broken down according to the bid form provided by SOCWA. Cost estimate shall be based on current manufacturer quotes, recent Southern California bid experience and other pertinent information.
- D. Design Drawings. FIRM shall prepare design drawings in AutoCAD as necessary to accurately describe the project for bidding and construction.
- E. Technical Specifications. FIRM shall prepare all technical specifications necessary to accurately describe the project for bidding and construction. SOCWA shall provide all bid forms and Division 0 documents.
- F. 50% Submittal. FIRM will submit eight copies of the 50 percent design documents for review by SOCWA. Submittal will be in the form of half-sized drawings. Responses to comments will be addressed by modification of documents or written response.
- G. 90% Submittal. FIRM will submit eight copies of the 90 percent design documents for review by SOCWA. Submittal will be in the form of half-sized drawings. Two sets of full sized drawings shall

also be submitted. Responses to comments will be addressed by modification of documents or written response.

- H. 100% Submittal. FIRM will prepare and submit one reproducible set each of full and half-size drawings and bidding specifications for printing and issue by SOCWA.

FIRM will submit electronic versions of the Design Memoranda, Drawings (in AutoCAD) and the Specifications (in Microsoft Word).

### QUALITY ASSURANCE

The FIRM shall administer a program of QA procedures for producing quality work. Specific procedures shall cover, but not be limited to, planning, checking, reviewing and scheduling the work.

All documents prepared by the FIRM shall be subject to the FIRM's in-house procedures prior to submittal to SOCWA for review. Each submittal shall be accompanied by a written statement from the principal-in-charge of the project stating that documents being submitted have been checked.

Discipline checks shall be made of all design calculations, drawings, specifications, construction cost estimates, and reports. An integrated design review shall be performed for multidisciplinary documents to provide coordination and to avoid conflicts in the documents. Checking shall be performed by qualified individuals who are not directly involved in the design or supervision of the work.

### DESIGN EXPECTATIONS

#### Design Standards

SOCWA does not currently maintain a set of either design or CAD standards. The FIRM shall be responsible for the providing the design documents in sufficient detail and quality to allow accurate bidding and construction of the project. The design requirements include but are not limited to the requirements below.

#### As-Built Drawings

The as-built drawings of the four SOCWA treatment facilities are of uncertain quality. The design consultant shall perform field measurements as necessary to verify key as-built information. Areas where dimensions can not be verified (e.g. buried facilities) shall be addressed by directing the contractor to pothole at key locations. Field verification is also necessary for power supply systems (including single line diagrams and panel drawings) and control/monitoring systems.

Unless noted otherwise the FIRM shall assume that SOCWA does not possess any electronic versions of either drawings or specifications.

### Demolition Drawings

Demolition plans shall show both the removal and the necessary repair. Broad statements in the specifications regarding the repair of damaged facilities shall be deemed inadequate

### Site Drawings

Site plans shall be provided as necessary. General civil plans shall be described with one foot contours. The limits of excavation shall be described for new foundation and for pipeline/conduit trenches. Remedial actions for damaged facilities and landscaping shall be identified. The location of new structures shall be established with coordinates.

### Material Selection

SOCWA's treatment facilities are located in corrosive environments due both to the wastewater handling and the marine environment. The FIRM is expected to select materials designed for long life in these environments. Where material selection is anticipated to have a significant impact on project the FIRM is to review the cost difference with SOCWA staff.

### Control Descriptions

SOCWA does not require the completion of Process and Instrumentation drawings (P&ID's) unless noted otherwise within this Request for Proposals. The design consultant may propose to provide P&ID's if necessary to clarify the construction work requirement. The consultant shall submit Control Descriptions as part of the 30% submittal. The Control Descriptions shall identify the controls, monitoring and alarms available at different locations within the plant. The descriptions shall also identify all automatic control sequences.

### Primary Elements

The firm shall be responsible for the design of the primary elements such that the installation is consistent with the listed manufacturers requirements for meeting the listed accuracy. The design shall also reflect the manner in which the instruments are to be removed from service for calibration and cleaning. The FIRM shall also ensure that covers are provided for any outside digital displays that might be impacted by sunlight.

### Equipment Data Sheets

The FIRM shall provide equipment data sheets for all devices with motors over 1 horsepower, all motorized or pneumatically controlled valves, all gates and all instruments. These sheets shall be submitted at part of the 30% submittal.

### PROPOSAL CONTENTS

SOCWA does not require a specific format for proposals. FIRMS may prepare their proposals in a manner most suited to their particular organization. However, all requirements set forth in the Request for Proposals must be addressed. Proposals shall be concise and shall not exceed eight (8) pages, excluding covers, tabs, and resumes. Proposals shall be stapled and shall not include formal cover. The cover letter shall be included in the count of eight pages. Preprinted and prepared general company advertising literature such as color brochures are discouraged unless they are specifically related to the services requested and referenced as such.

FIRM proposals shall include, at a minimum, the following information:

1. Indication that the FIRM has a clear understanding of each project. This should include a description of the work to be performed, how the project tasks will be accomplished and the problems that may be encountered.
2. Descriptions of previous projects of similar type, scope, and size that the FIRM has completed. The description shall include project name, client, and client references (including telephone numbers).
3. Name, project responsibilities, and experience of designated personnel that will be assigned to work on SOCWA's projects with emphasis on the Project Manager.
4. Resumes of designated personnel, where appropriate.
5. Current workload and future anticipated work of key staff to be assigned to the project.
6. List of all subconsultants proposed to be used by the FIRM.
7. A preliminary project schedule incorporating the milestone dates identified in this RFP. The FIRM should indicate whether or not the milestone dates are feasible.
8. A table of effort is to be included in the Proposal that includes the consultant hours by classification and the total hours for each

subconsultant. This breakout is to be provided for each work item shown in the scope of services.

9. A preliminary drawing list showing the number and title of sheets. This list should also indicate the number of engineer, designer, word processing or clerical, and subconsultant hours allocated to each sheet.
10. A proposed fee and schedule of hourly rates, provided in a separate sealed envelope marked "Estimate Fee – Design Services Proposal" and indicating the FIRM'S name.
11. A copy of the SOCWA's standard engineering contract is attached as Exhibit 'A'. The Proposal is to verify that the submitting firm will maintain the required insurance levels. The Proposal should identify whether or not the submitting firm agrees to the contract language. Any discrepancies should be identified.

## LEGAL REQUIREMENTS AND GENERAL CONDITIONS

### Interpretation of Documents

A FIRM contemplating submitting a proposal for this proposed contract who is in doubt as to the true meaning of any part of this Request for Proposal or finds discrepancies in or omissions from this Request for Proposal, may submit to SOCWA a verbal or written request for interpretation or correction thereof. Any interpretation or correction of the documents will be made only by addendum duly issued. A copy of such an addendum will be mailed or delivered to each FIRM receiving this Request for Proposal. SOCWA will not be responsible for any explanations or interpretations of the documents other than written addenda.

Submission of a proposal shall be evidence that the FIRM did, in fact, conduct all necessary inspections and is aware of and acknowledges all conditions, restrictions and limitations affecting performance and cost.

### Addenda

All addenda issued during the proposal period shall be noted in the FIRM's proposal.

### Rejection of Proposal

SOCWA reserves the right to reject any and all proposals, to negotiate with one or more FIRMS, to waive any informality in a proposal, to delete or add items of work prior to award, and to make an award in the best interest of SOCWA.

### Contract Award

The selected FIRM shall enter into a written contract with SOCWA binding all terms, conditions, and provisions of the proposal, and other terms, conditions, and provisions negotiated prior to award of the contract. The contract period will be for the duration of the project. A copy of the standard engineering services contract that SOCWA utilizes is attached with this Request for Proposals.

### SOCWA's Use of Proposal Material

All material submitted in or with the proposal shall become the property of SOCWA, unless it is clearly marked as proprietary information. SOCWA reserves the right to use any ideas presented in the proposals, without compensation paid to the FIRM. Selection or rejection of the proposal shall not affect this right.

### Proposal Development

The cost for developing and submitting the proposal shall be entirely the responsibility of the FIRM.

### SELECTION CRITERIA

Proposals will be evaluated on the basis of their response to all provisions of this RFP. The Agency may use some or all of the following criteria in its evaluation and comparison of proposals submitted. The following list of criteria is not intended to be all inclusive and the order is not intended to indicate their relative importance:

- The experience, qualifications and availability of the Proposer's consultant team and, in particular, the Project Manager assigned to the project.
- The experience of the Proposer's team with respect to the rehabilitation of primary clarifiers.
- The Proposer's technical approach and methodology to performing the scope of services will be evaluated based upon completeness, demonstrated capability, responsiveness to the Agency's needs and demonstrated understanding of the work requirements.
- Successful completion of previous work for SOCWA and its member agencies.
- The evaluation will consider the respondent's proposed mechanism for quality control, meeting schedules, method of coordination and cost control and a demonstrated ability to respond rapidly to changes in project

requirements. The proposal should identify the individual who will lead QA/QC review teams.

- The organizational structure of the proposed project team.
- Recent references from local clients on similar type work performed by Proposer.
- The proposed effort and fee for completing the scope of services.
- The Proposer's demonstrated ability to meet all of the SOCWA's administrative requirements including insurance, liability, equal opportunity practices and any exceptions taken to the SOCWA's Professional Services Contract.

### SELECTION PROCEDURES

Proposals received by SOCWA will be reviewed on the basis of the proposal contents. It is the intent of SOCWA to select the firm based on the proposals. However, SOCWA reserves the right to conduct interviews with one or more firms prior to final selection.

If agreement cannot be reached with the selected FIRM, SOCWA will terminate negotiations with that FIRM and open negotiations with the next ranked FIRM. The compensation discussed with one FIRM will not be disclosed or discussed with another FIRM.

When a final selection and negotiated fee and terms for the contract have been reached, a recommendation for award will be made to the SOCWA Project Committee for approval.

### SCHEDULE

- Preproposal Meeting: March 4, 2010
- Final Date for Proposal Submittal: March 24, 2010
- Review by Engineering Committee: April 8, 2010
- Approval of Award by Board: April 22, 2010
- Project Completion: November 11, 2010

# Engineering Committee Agenda Item

Meeting Date: April 8, 2010

Agenda Item No.: 4

Action Required: Yes

**TO:** SOCWA Engineering Committee, Project Committee 2

**FROM:** Brian Peck, Director of Engineering

**SUBJECT:** J. B. Latham Treatment Plant East Plant Improvements

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## Change Order Status

### Summary

Three new change orders are presented for review and recommendation:

Change Order No. 6: Relocation of Two Inch Steel Pipeline. A non-potable water pipeline was found in the excavation for the new electrical switchgear pad footing. The pipeline was relocated to avoid footing. Change order cost: \$748.85.

Change Order No.7: Extended Temporary Power Cable. The replacement of Motor Control Center 'L' required a temporary power feed from Motor Control Center 'D' to Motor Control Center 'DGU'. The location of the temporary power connection shown on the drawings was believed to provide access problems to the Receiving Office, Foul Air Scrubber No.2 and the Thickener System. This routing also required the gas driven blower room to remain open for the duration of the temporary feed. SOCWA staff proposed an alternate route which would minimize access and security issues. However, the new routing required longer temporary cable and core drilling/hole repair in the side of the Energy Building. Change order cost: \$1,918.93.

Change Order No. 8 Basin Flooding. F.T. Ziebarth had drained and cleaned Primary Sedimentation Basin No.6 for modification. Minor leakage took place through closed gates and valves. Small sump pumps were installed to control the drainage. Over a weekend a stop gate failed resulting in flooding of the basin. The contractor reinforced the gate, drained and cleaned the basin for a second time. Change order cost: \$744.52.

The total amount of change orders for the project is \$44,312.25. The project remains within budget.

### Requested Action

The Engineering Committee will be asked to recommend Change Orders No. 6, No.7 and No.8 for Board action.

**J. B. Latham Treatment Plant East Plant Improvements  
East Side Electrical System Retrofit (PC 2 Task 78-C)  
Change Orders**

Date: 4/1/2010

CO #	CO Item	Description	Change Order Price	Cumulative Change Order	Status	Change Order Reason
1	Upsize Conduits and Handholes	After the completion of the bidding SDG&E requested the addition of two 5-inch conduits and and three handholde between the new switchboard and transformer.	\$2,768.28	\$2,768.28	SOCWA Board Approved	SDG&E Request
2	Relocation of Utilities at New Pad	Rerouting of 4-inch plant water pipeline and 6-inch storm water discharge pipeline.	\$14,786.00	\$17,554.28	SOCWA Board Approved	Unexpected Conditions
3	Removal of DIP and ACP Pipelines	Removal of abandoned pipelines necessary for installation of new pad footings and ductbank.	\$12,790.00	\$30,344.28	SOCWA Board Approved	Unexpected Conditions
4	Additional Spare Conduit	Add one spare 3-inch conduit in new duct bank from MCC-D to pullbox mounted on wall.	\$3,681.67	\$34,025.95	SOCWA Board Approved	Design Error or Omission
5	Rerouting Instrumentation Cable To Drainage Sump and Storm Water Pump Engine	Add two 1-inch conduits and cable to reroute signals around new Switchgear Pad.	\$6,874.00	\$40,899.95	SOCWA Board Approved	Unexpected Conditions
6	Relocation of Two Inch Steel Pipeline	Rerouting of 2-inch steel pipeline away from new duct banks adjacent to new Electrical Building.	\$748.85	\$41,648.80	SOCWA Staff Recommended	Unexpected Conditions

**J. B. Latham Treatment Plant East Plant Improvements  
MCC Replacement (PC 2 Task 96-C)  
Change Orders**

Date: 4/1/2010

CO #	CO Item	Description	Change Order Price	Cumulative Change Order	Status	Change Order Reason
7	Extended Temporary Power Cable	SOCWA staff requested longer temporary power cable route to avoid access and security problems.	\$1,918.93	\$1,918.93	SOCWA Staff Recommended	Owner Request

**J. B. Latham Treatment Plant East Plant Improvements  
MCC Replacement (PC 2 Task 96-C)  
Change Orders**

Date: 4/1/2010

CO #	CO Item	Description	Change Order Price	Cumulative Change Order	Status	Change Order Reason
8	Basin Flooding	Leakage past broken gate resulting in flooding of basin in which Contractor was mobilized.	\$744.52	\$744.52	SOCWA Staff Recommended	Unexpected Conditions

<b>Total Cumulative Change Orders</b>	<b>\$44,312.25</b>
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