

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

Thursday, July 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, July 8, 2010 at 1:00 p.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 (May and June '10)**
2. **J. B. Latham Treatment Plant East Plant Improvements Construction Progress Report (Project Committee 2)**
3. **J. B. Latham Treatment Plant Strategic Plan Proposal Review (Project Committee 2)**
4. **Plant 3A Geotechnical Stabilization Preliminary Design Proposal Review (Project Committee 3A)**
5. **Coastal Treatment Plant Energy Audit Review (Project Committee 15)**

NOTICE OF ENGINEERING COMMITTEE

July 9, 2010

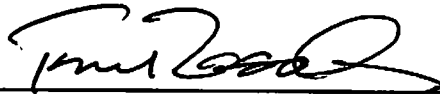
Page 2 of 2

6. **Coastal Treatment Plant Headworks Upgrade Construction Progress Report (Project Committee 15)**
7. **Regional Treatment Plant Headworks Upgrade Construction Progress Report (Project Committee 17)**
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 June 2010.



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

Engineering Committee Agenda Item

Meeting Date: July 8, 2010

Agenda Item No.: 2

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

Change Order Status

Summary

Two new change orders are presented for review and recommendation:

Change Order No. 11: Containment Wall Modifications for Flood Gate. The design drawings underestimated the size of the new duct bank from the new switchboard to the motor control centers and primary movers in the 9 mgd side Raw Sewage Pump Station. This required the construction of a new stem wall for the flood gate, the relocation of a drainage sump, and the relocation of an odor control duct support. Change order cost: \$7,798.00.

Change Order No.12: Modification of DAF System Controls. The wiring schematics for the new Motor Control Center L indicated that all control for the DAF pressurization pumps would be done automatically at the MCC. This removed the existing control capability at the pump. SOCWA operations staff requested that that capability be restored. The original control switch had effectively rotted away. The change order replaces the switch and reconnects the wiring. Change order cost: \$672.70.

The total amount of change orders for the project is \$60,161.22. The project remains within budget.

Requested Action

The Engineering Committee will be asked to recommend Change Orders No. 11 and No.12 for Board action.

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

Date: 7/1/2010

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 Board Approved	Unexpected Conditions
9	Repair 3" PVC Leak	Repair leaking pipe adjacent to work area.	\$976.27	\$42,625.07	SOCWA Board Approved	Repair
10	3" PVC Non-Potable Water Pipeline Relocation	New pipeline to replace section subject to repeated leaks.	\$6,402.00	\$49,027.07	SOCWA Board Approved	Owner Request

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

Date: 7/1/2010

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 Board Approved	Owner Request
12	Modification of DAF System Controls	SOCWA staff replacement of the the local control switch at the DAF pressurization pumps. Original switches were removed as part of MCC L replacement. R	\$672.70	\$2,591.63	SOCWA Staff Requested	Owner Request

**J. B. Latham Treatment Plant East Plant Improvements
Primary Sedimentation Upgrade (PC 2 Task 93-C)
Change Orders**

Date: 7/1/2010

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 Board Approved	Unexpected Conditions

**J. B. Latham Treatment Plant East Plant Improvements
Emergency Raw Sewage Pumping (PC 2 Task 82-C)
Change Orders**

Date: 7/1/2010

CO #	CO Item	Description	Change Order Price	Cumulative Change Order	Status	Change Order Reason
11	Containment Wall Modification for Flood Gate	New stem wall needed to accomodate electrical duct ank along the side of the primary sedimentation basins.	\$7,798.00	\$7,798.00	SOCWA Staff Requested	Design Error or Omission

Total Cumulative Change Orders	\$60,161.22
---------------------------------------	--------------------

Engineering Committee Agenda Item

Meeting Date: July 8, 2010

Agenda Item No.: 3

Action Required: Yes

TO: SOCWA Engineering Committee, Project Committee 2

FROM: Brian Peck, Director of Engineering

SUBJECT: J. B. Latham Treatment Plant Facilities Plan – Proposals

Scope

The Facilities Plan previously had the title Strategic Plan. The change in name was recommended by the Engineering Committee to more accurately reflect the purpose of the study. The Facilities Plan is proposed for the J. B. Latham Treatment Plant to consider broader regional and regulatory issues and their projected impact on long term capital investment in the treatment plant.

Proposal Received

Requests for Proposals were sent to the following five firms:

- Black & Veatch
- Brown and Caldwell
- Carollo Engineers
- CH2MHill
- HDR

A single proposal was received from Carollo Engineers. The Carollo team included HDR Engineering serving in a significant subconsultant role. Both Black & Veatch and Brown and Caldwell indicated that their key staff members were committed to other projects for the remainder of the calendar year. CH2MHill stated that they had discussed the project with several members of the SOCWA Engineering Committee. After these discussions CH2MHill came to the conclusion that the firm's previous work on the Advanced Water Treatment (AWT) facility did not leave them well positioned for the Facilities Plan project.

Proposal Review Materials

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

- Proposals (only to Project Committee 2 members)
- Summary forms comparing the key characteristics of each proposal (e.g. team, total labor hours)
- Request for Proposals.

Requested Action

The Engineering Committee will be asked to review the proposal and recommend the team of Carollo Engineers/HDR Engineering for contract award to the Board of Directors.

Enc: Carollo/HDR Proposal (Project Committee 2 Members Only)

PROPOSAL SUMMARY



**PROJECT: J. B, LATHAM TREATMENT PLANT FACILITIES PLAN
(STRATEGIC PLAN)**

Firm	Carollo Engineers (with HDR Engineering)
PROJECT MANAGER	Dennis Wood
ASSISTANT PROJECT MANAGER	Guillermo Garcia (HDR)
WORKSHOP FACILITATOR	Bruce Willey (HDR)
PRINCIPAL	Doug Lanning
SUB-CONSULTANTS	HDR Engineering – Multiple Tasks Michael Welch – Waste Discharge; Recycled Water Don King (DHK Engineers) – Odor Control; Air Quality Regulations
QUALIFICATIONS	Carollo and HDR both show strong relevant references among Southern California utilities. Team member summary on Pages 9 and 10 show good qualifications in all scope areas for the project.
QUALITY CONTROL ADDRESSED?	Page 9 identifies Jim Hagstrom as the individual responsible for the quality control program.
TOTAL LABOR HOURS	863
SCHEDULE	Schedule on Page 11 indicates draft report submittal by mid-January, 2011; final report submittal by mid-February, 2011.
STAFF AVAILABILITY	Page 8 of the proposal indicates that key project team members have sufficient time to perform this project.
CONTRACT	Carollo takes no exceptions to the standard SOCWA contract form.

REQUEST FOR PROPOSALS

FOR THE
STRATEGIC PLAN
FOR THE
J. B. LATHAM 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 provide engineering services for the development of a strategic plan for the J. B. Latham Treatment Plant.

RECEIPT OF PROPOSALS

Nine (9) bound copies and one (1) unbound copy 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 2:00 p.m. on June 17, 2010. Late proposals will be returned unopened to the respondent.

PROPOSAL AND SITE INQUIRIES

A pre-proposal meeting will be held at the J. B. Latham Treatment Plant at 10:00 a.m. on June 1, 2010. This meeting allows FIRMS to ask questions of staff and to investigate the site firsthand. It is necessary that all proposing firms have at least one representative attending the pre-proposal meeting. Any proposal received from a firm not represented at the pre-proposal meeting will be considered non-responsive.

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

The J. B. Latham Treatment Plant is a 13 mgd conventional activated sludge treatment located in Dana Point. The liquids portion of the plant was built in four

phases: 1964, 1971, 1974 and 1978. The solids portion of the plant includes two dissolved air flotation (DAF) thickeners and four anaerobic digesters which were built in 1971 and 1974. The Energy Recovery Building was constructed with belt filter presses for dewatering in 1986. The presses were replaced with centrifuges in the late 1990's and early 2000's. The final major new facility, the Effluent Pump Station, was constructed in 1993.

Many upgrade projects have been completed at the Latham Treatment Plant over the past ten years. The recently approved Ten Year Plan has laid out an ambitious set of rehabilitation projects up to Fiscal Year 2019/2020. These projects focus on the preservation and improvement of existing assets.

A Strategic Plan is proposed for the Latham Treatment Plant to consider broader regional and industry wide issues and their projected impact on capital investment in the facility.

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. Meetings

FIRM will conduct one kick-off meeting at the Dana Point office of SOCWA. FIRM will conduct additional meetings through the course of the project as needed for the proper level of communication with SOCWA.

Note that these meetings are separate and distinct from the workshops described in this Scope of Work.

II. Evaluate Plant Loading

SOCWA will provide the original basis of design for the liquids portion of the Latham Treatment Plant. SOCWA will provide five years of daily average data in an EXCEL format. Data will include the following: influent flow, influent BOD, influent suspended solids, primary effluent BOD, primary effluent suspended solids, primary effluent ammonia nitrogen, mixed liquor suspended solids, RAS flow, final effluent flow, final effluent suspended solids and final effluent BOD. SOCWA will provide limited additional data including total dissolved solids and turbidity. SOCWA will provide eight 48 hour period diurnal flow charts.

FIRM will meet with SOCWA Operations staff to discuss operational and water quality issues.

FIRM will compare current plant loading with original design criteria. FIRM will summarize results of analysis in a technical memorandum. One hard copy and one electronic copy (in *.pdf format) will be transmitted to SOCWA for review and comment.

III. Assess Concrete Condition

SOCWA will loan half size plans of primary as-built drawings to the FIRM. FIRM shall conduct visual inspection of structural condition of facilities. SOCWA will provide FIRM access to inside of one primary sedimentation basin, one aeration basin, one secondary sedimentation basin and one thickener during a one week period. FIRM shall review structural plans where potential weaknesses have been visually observed (see also Task IV). FIRM shall develop a matrix of noted structural deficiencies. These deficiencies shall be categorized according to TYPE (three levels of severity) and REPAIR COST (three orders of magnitude cost levels).

Notes:

1. Evaluation does not include SOCWA Administration Facility.
2. Inspection of digester interiors will not be possible. SOCWA will provide report discussing structural repair of Digester No.3.

IV. Review Seismic Vulnerability

SOCWA will provide FIRM with three geotechnical reports describing conditions at different locations on the Latham Plant site. FIRM shall use these reports and any additional sources that the FIRM can research to describe the potential magnitude and impact of a major seismic event on the Latham Plant site. FIRM shall provide a broad review of plant structural drawings to determine any areas of significant seismic vulnerability.

FIRM will summarize results of Tasks III and IV in a technical memorandum. One hard copy and one electronic copy (in *.pdf format) will be transmitted to SOCWA for review and comment.

Note: This task is not intended to a major seismic and structural evaluation of the treatment plant. However, it is expected that this task may identify areas of the plant that require more detailed analysis.

V. Forecast Potential Regulatory Impacts

SOCWA will provide copies of current permits (including NPDES, AQMD and SOCWA recycled water permits) to the FIRM.

FIRM shall develop a matrix of upcoming and potential future regulations that might be anticipated over the next twenty years. Matrix will describe the regulation, the probability of regulation issue, and the potential impact on the Latham Treatment Plant.

VI. Workshop No.1

FIRM will conduct workshop with SOCWA senior staff and Project Committee No.2 Engineering Committee members (1) summarizing results of Tasks II through V and (2) reviewing issues for detailed development in the Strategic Plan. Length of the workshop will be limited to 4 hours.

NOTE: The Consultant will only be authorized to perform Tasks I through VI when the contract is awarded. The remaining scope will be reviewed and, if necessary, revised after Workshop No.1.

VII. Modified Liquid Treatment Trains

FIRM shall prepare schematics and simple block site diagrams showing treatment schemes for up to six scenarios. The scenarios shall be based on (1) regulatory impacts identified in Task V, (2) processing of recycled water and (3) consolidation of operating facilities.

VIII. Review Key Liquid Treatment Issues

FIRM shall evaluate five key liquid treatment issues:

- A. Grit Removal. FIRM shall evaluate the need and the approach for expanded handling of grit on the 9 mgd side of the treatment plant.
- B. Advanced Primary Treatment. FIRM shall evaluate advanced primary treatment for that Latham Plant. Basic analysis shall evaluate quantities of chemical and amount of additional solids produced.
- C. Flow Distribution. FIRM shall perform a simplified evaluation of hydraulics in the Primary Effluent Channel to determine potential maldistribution of flow to the aeration basins. FIRM shall develop concepts for improving distribution.
- D. Aeration. FIRM shall evaluate proposed concept for Aeration System upgrade. FIRM shall consider how Aeration System Upgrade relates to alternative liquid treatment schemes identified in Task VII.

- E. AWT. FIRM shall review Value Engineering and Response to Value Engineering for AWT Project (two technical memoranda prepared in 2009) to note how future AWT project would relate to concepts explore in Task VII. FIRM will develop basic estimate for reverse osmosis facility needed to lower effluent total dissolved solids to acceptable level according to the Basin Plan.

FIRM will summarize results of Tasks VII and VIII in a technical memorandum. One hard copy and one electronic copy (in *.pdf format) will be transmitted to SOCWA for review and comment.

IX. Workshop No.2

FIRM will conduct workshop with SOCWA senior staff and Project Committee No.2 Engineering Committee members summarizing results of Tasks VII and VIII. Length of the workshop will be limited to 2 – ½ hours.

X. Review Key Solids Handling Issues

SOCWA will provide five years of daily average data in an EXCEL format. Data will include solids loading associated with Plant 3A and the Oso Creek Water Reclamation Plant. SOCWA and FIRM will work jointly to develop basis of design for existing facility. SOCWA will provide FIRM with white paper describing current existing digester capacity.

FIRM shall evaluate three key solids treatment issues and opportunities:

- A. Thickening. FIRM shall evaluate cost of upgrading existing DAF thickening as compared to replacement with disc thickeners (the latter option would be considered to reduce the space requirement).
- B. Digestion. FIRM will develop basis of design, simple site plan and order of magnitude construction cost for the construction of Digester No. 5 (to be sized the same as Digesters No.1 and No.2). Optional concept would evaluate basis of design and operational sequence if the Plant 3A solids are discharged to the Latham Plant. A second optional concept would evaluate the impact of advanced primary treatment on the digestion system.
- C. Solids Storage. FIRM will evaluate different approaches to on site solids storage to reduce the dependence on contractor transport of dewatered biosolids.

XI. Energy Management

SOCWA will provide five years of daily average data in an EXCEL format. Data will include the following: digester gas production, natural gas usage and electrical power usage.

FIRM shall evaluate the following energy issues:

- A. Enhancement of Digester Gas Production. FIRM shall evaluate options for increasing gas production including but not limited to the import of Plant 3A solids and the implementation of advanced primary treatment.
- B. Private Options for Gas Utilization. FIRM will evaluate the feasibility of utilizing a private contractor on the Latham site to generate power from digester gas using fuel cells, microturbines or other technology.

XII. Odor Control

FIRM shall prepare brief basis for design for Odor Control Scrubber No.3 for the treatment of off-gases from the Aeration Basins. FIRM shall provide site plan showing proposed location for scrubber. FIRM shall provide order of magnitude cost estimate for the third odor control system.

XIII. Workshop No.3

FIRM will conduct workshop with SOCWA senior staff and Project Committee No.2 Engineering Committee members summarizing results of Tasks X through XII. Length of the workshop will be limited to 2 – ½ hours.

XIV. Develop Site Plan Alternatives

FIRM shall develop a minimum of eight different site plans integrating the different concepts evaluated in Task VII through Task XII. Site plans will be submitted in both 24" x 36" and 11" x 17" format.

XV. Develop Sequence of Events

SOCWA shall identify one site plan to the FIRM for final development. FIRM shall develop a series of drawings showing the order of development of different projects to complete the final site plan.

Note: The purpose of this task is to indicate what project must be completed prior to other projects in order to maintain SOCWA's flexibility

to address changing conditions. This sequencing can then be integrated into SOCWA's Ten Year Plan.

XVI. Workshop No.4

FIRM will conduct workshop with SOCWA senior staff and Project Committee No.2 Engineering Committee members summarizing results of Tasks XIV through XV. Length of the workshop will be limited to 2 – ½ hours.

XVII. Draft Report

FIRM shall summarize results of Tasks I through XVI in a draft report. Technical memoranda and matrices may be simply bound into the report to simplify preparation. Five copies of the draft report shall be submitted to SOCWA for review and comment. The FIRM shall respond to all review comments. Ten copies of the finalized memorandum shall be submitted to SOCWA.

XVIII. Final Report

Ten copies of the finalized report will be prepared and submitted to SOCWA. FIRM shall submit an electronic copy of the report in *.pdf format. All figures will be submitted to SOCWA in the electronic format of preparation (e.g. *.dwg). "

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.

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 twelve (12) pages, excluding covers, tabs, and resumes. 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 FIRM 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 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. An electronic copy of this table shall also be provided.

10. 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 long range planning for wastewater treatment facilities.
- The experience of the Proposer's team with respect to evaluation the structural condition and seismic evaluation of wastewater treatment facilities in Southern California.
- 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

- Pre-proposal Meeting: June 1, 2010
- Final Date for Proposal Submittal: June 17, 2010
- Engineering Committee Review: July 8, 2010
- Approval of Award by Board: August 5, 2010
- Notice To Proceed: August 12, 2010
- Workshop No.1: October 14, 2010
- Draft Final Report Submittal: January 20, 2011

Engineering Committee Agenda Item

Meeting Date: July 8, 2010

Agenda Item No.: 5

Action Required: No

TO: SOCWA Engineering Committee, Project Committee 15
FROM: Brian Peck, Director of Engineering
SUBJECT: Coastal Treatment Plant Energy Optimization Study

Summary

The Coastal Treatment Plant Energy Optimization Study was done by Environmental Engineering & Contracting (EEC) under a small purchase order (\$8,500). This study was effectively a follow to the 1998 Optimization Study (by HDR) and the 2002 Energy Audit (by Malcolm Pirnie). Outside of the aeration system the current study identified very limited opportunities for energy savings. Recommendations for the grit blowers and the AWT recycled water pumps (as listed on Page 15 of the report) are being considered further by SOCWA's Operations staff.

The Study deviated from the originally identified scope by delving into process issues. One area of interest identified by the consultant is the continuing high dissolved sulfide level in the plant influent. The Study speculates that these levels are responsible for 10% to 20% of the aeration demand. The consultant proposes chemical addition at the upstream lift stations. We explained to the consultant that this chemical addition was not apt to be technically or politically feasible.

There remains potential for cost savings in the aeration system at the Coastal Treatment Plant. It is expected that experience developed with new models of aeration blower for the J. B. Latham Treatment Plant and Plant 3A aeration upgrades will be applicable to the Coastal Treatment Plant. The process related issues raised in the Energy Optimization Study will be explored further as part of the Coastal Treatment Plant Facilities Plan in Fiscal Year '11/'12.

Requested Action

This item is presented for review only; no action is necessary at this time.

Enc: Energy Optimization Study (Project Committee 15 Members Only)

Engineering Committee Agenda Item

Meeting Date: July 8, 2010

Agenda Item No.: 7

Action Required: Yes

TO: SOCWA Engineering Committee, Project Committee 17

FROM: Brian Peck, Director of Engineering

SUBJECT: Regional Treatment Plant Headworks Upgrade

Change Order Status

Summary

One new change order is presented for review and recommendation.

Change Order No. 6: Roof Flashing and Miscellaneous Metal Replacement. The existing flashing and drain system is to be replaced with a system that matches the color and style on other Regional Treatment Plant Buildings. The change order cost for the new metals is \$3,480.

The total amount of change orders for the project is \$47,816.84. The project remains within budget.

Requested Action

The Engineering Committee will be asked to recommend Change Order No. 6 for Board action.

Regional Treatment Plant Headworks Upgrade (PC 17 Task 99-C)

Change Orders

Date:

7/1/2010

CO #	CO Item	Description	Change Order Price	Cumulative Change Order	Status	Change Order Reason
1	Slide and Sluice Gates	Replacement of gates - this was rejected as a change order - subsequently included in bid for Clarifier Upgrade Phase I	\$0.00	\$0.00	Rejected by Staff	Unexpected Conditions
2	Skylight Sizing	Skylight size shown in bidding documents was too small to accommodate removal of new screens.	\$13,619.00	\$13,619.00	SOCWA Board Approved	Design Error /Omission
3	Cover Penetrations	Existing aluminum covers needed modification to allow foul air duct penetration.	\$8,881.00	\$22,500.00	SOCWA Board Approved	Design Error /Omission
4	Specialty Inspection for Concrete Epoxy	Owner requested contractor to provide 3rd party inspection for concrete epoxy work.	\$336.84	\$22,836.84	SOCWA Board Approved	Owner Request
5	Sunshield Awning	Installation of awning above outside instrumentation panels needed for both visibility and heat reduction.	\$21,500.00	\$44,336.84	SOCWA Board Approved	Design Error /Omission
6	Roof Flashing and Miscellaneous Metal Replacement	Original metal systems replaced. New systems match style on other Regional Treatment Plant Buildings.	\$3,480.00	\$47,816.84	SOCWA Staff Request	Owner Request

Total Cumulative Change Orders	\$47,816.84
---------------------------------------	--------------------