



MINUTES

Supervisory Committee Meeting

Thursday, June 27, 2019

South Platte Water Renewal Partners (SPWRP)

2900 South Platte River Drive, Englewood, CO 80110 - Colorado Room 9:00 a.m.

COMMITTEE MEMBERS PRESENT:

Maria D'Andrea	City of Englewood, Public Works Director
Keith Reester	City of Littleton, Public Works Director
Mark Relph	City of Littleton, City Manager

COMMITTEE MEMBERS ABSENT:

Dorothy Hargrove	City of Englewood, Interim City Manager
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STAFF/CONSULTANTS PRESENT:

Kacie Allard	SPWRP Deputy Director – Business Solutions
Blair Corning	SPWRP Deputy Director – Environmental Programs
Alyssa Hoffman	SPWRP Business Services Specialist
David Robbins	Hill & Robbins, SPWRP Attorney
Pieter Van Ry	SPWRP Director
Brenda Varner	SPWRP Government Communications Specialist
Chong Woo	SPWRP Deputy Director – Engineering

GUESTS PRESENT:

Cynthia Lane	Assistant Manager, Platte Canyon Water & Sanitation District
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I. Call to Order

The June Supervisory Committee (Committee) meeting was called to order by Pieter Van Ry, the Director of South Platte Water Renewal Partners (SPWRP).

II. Consideration of Minutes for Previous Supervisory Committee Meetings

The May Supervisory Committee meeting minutes were approved via email by Committee Member D'Andrea, Committee Member Hargrove and Committee Member Reester on June 7, 2019. Committee Member Relph was absent for the May meeting and did not vote.



III. Action Item(s)

Civil Improvements Project – Contract Award:

Mr. Chong Woo, SPWRP Deputy Director – Engineering, discussed the recommendation for a professional services agreement between SPWRP and Stantec Consulting Services Inc., to perform the Civil Improvements Project (Project), in the amount of \$300,762. The Project includes asset renewal and replacement of valves, hydrants and hydrant supply lines, and installation of new pipeline clean-outs. The Project also includes condition assessments with design recommendations for ServiCenter Pump Station, Solids Contact Tank slide gates and drain lines, raw sewage piping and pump system, and sewer interceptors. All work will be completed on treatment facility property. This Project will improve aging infrastructure and increase plant operational efficiency.

Mr. Woo discussed the request for proposal (RFP) that was developed and advertised on the Rocky Mountain E-Purchasing System to find the best solution. A total of three (3) proposals were received. Based on a review of proposals, Stantec is the recommended consultant for this Project. Stantec was the lowest responsible bidder and has the capacity, capability, experience, and expertise to perform the scope of services requested.

The Project has high criticality as well as serious consequence if not addressed. Repairing, replacing, and modifying the multiple assets encompassed in this Project will significantly reduce the risk of permit violations, overflows, and treatment failures at the SPWRP facility. SPWRP staff recommends the Supervisory Committee approve an award of contract to Stantec Consulting Services Inc. to conduct the Civil Improvements Project design.

ACTION TAKEN – The Supervisory Committee considered the recommendation to approve a professional services agreement with Stantec Consulting Services Inc., for the Civil Improvements Project design, in the amount of \$300,762. Committee Member D'Andrea moved to approve, Committee Member Relph seconded the motion, three ayes, no nays. Motion approved. Committee Member Hargrove absent.

Single Point of Failure – Contract Award:

Mr. Woo discussed the recommendation for a professional services agreement between SPWRP and Black & Veatch Corporation, to perform the facility's Single Point of Failure (SPOF) analysis, in the amount of \$149,248. The purpose of the SPOF analysis is to identify critical system components that if they experience a failure, they have the ability to significantly impact the facility's operation. The SPOF analysis will not only identify risk, but also include probability and consequence of failure. By identifying such components in the SPOF analysis, SPWRP can help mitigate risk through redundancy, capital improvements, purchasing critical spares, and/or process changes. The SPOF analysis shall be used to address any gaps that pose a risk in the successful operation of SPWRP.



Single points of failure are critical to identify and determine mitigation solutions to ensure the operability, optimization, and controllability of the SPWRP treatment facility. Evaluating and identifying points of failure will reduce the uncertainty of failure, while recommendations for components encompassed in this project will significantly reduce the risk of permit violations, overflows, and treatment failures at the SPWRP facility. The SPOF analysis has a direct link to other projects such as asset management and warehouse design.

Mr. Woo discussed the request for proposal (RFP) that was developed and advertised on the Rocky Mountain E-Purchasing System to find the best solution. A total of three (3) proposals were received. Based on a review of proposals, Black & Veatch Corporation is the recommended consultant for the SPOF analysis. Black & Veatch has the capacity, past project experience, and engineering and operations expertise to perform the scope of services requested. While the other two (2) proposals were the lower cost proposals, they both relied on past projects to build upon for the SPOF analysis. SPWRP staff felt that reliance on the past projects may result in missed evaluation of risk, and it is our intention to pursue new perspectives and ideas for operational improvements and innovation.

ACTION TAKEN – The Supervisory Committee considered the recommendation to approve a professional services agreement with Black & Veatch Corporation, for the Single Point of Failure Analysis, in the amount of \$149,248. Committee Member D'Andrea moved to approve, Committee Member Relph seconded the motion, three ayes, no nays. Motion approved. Committee Member Hargrove absent.

SPWRP Master Plan:

Mr. Woo discussed the recommendation for approval of the SPWRP 2019 Master Plan developed by Carollo Engineers and SPWRP staff. In 2017, the Strategic Operations Plan, now known as the Master Plan, was initiated to provide a roadmap which would identify the capital improvement expenditures needed to meet Regulation 85 requirements for phosphorus and nitrogen, increase operational effectiveness, revitalize aging assets, and identify resource recovery opportunities.

With the help of Carollo Engineers, staff established goals and objectives, and criteria in which the various treatment technologies and alternatives would be evaluated. The service area planning was evaluated, along with projected flows and loadings to assess the current capacities and treatment capabilities of our existing processes. The focus was a biological approach to meeting regulatory requirements. However, the technology had not been proven in a facility of our type which posed a greater risk as significant capital upgrades would have been required to validate the economic viability.

In August 2018, a shift in strategic direction allowed staff to take a step back and re-evaluate goals and objectives, and examine the priorities of the selection criteria. The technology selection process involved ranking ten (10) different alternatives, then identifying the most viable technologies for additional investigation, and finally narrowing the list to four (4) for a

deep-dive evaluation. Following a scoring and ranking exercise of each of the final four alternatives, Chemical Phosphorus Removal was identified as the treatment technology to meet regulatory requirements.

Chemical treatment is a well-established technology that requires less capital investment, utilizes our existing infrastructure and provides less risk in operation and maintenance. Utilizing chemical treatment still allows our facility to meet the nutrient incentive credits and the facility time to plan for more stringent regulations in the future. This has the added benefit of allowing emerging and more cutting edge technologies to develop and mature, which may provide benefit to the facility to reduce capital expenditures. It was noted that chemical treatment does have more operating costs associated with its application because it relies on the addition of chemicals to the process, but the additional annual operating costs were judged to be manageable as compared with the increased capital costs associated with the other technologies.

The Master Plan also identified capital expenditures needed for equipment renewal and replacement, improved operational effectiveness, and identified cost optimization opportunities for enhanced nutrient treatment. Planning level cost estimates were established for each of the projects and were incorporated into a Master Plan Capital Expenditures schedule.

ACTION TAKEN – The Supervisory Committee considered the recommendation to accept the SPWRP 2019 Master Plan. Committee Member Reester moved to accept, Committee Member Relph seconded the motion, three ayes, no nays. Motion accepted. Committee Member Hargrove absent.

IV. Informational Items

SPWRP staff discussed these informational items with the Committee:

- Director Updates:
 - SPWRP Quarterly Update Discussion
 - Timing of July's Supervisory Committee meeting
 - Scheduled a Conference Call for Wednesday, July 24, 2019 at 8 a.m.
 - Biogas Ribbon-Cutting Event
 - Tentatively planned for late-August or early-September 2019
- Joint Council Study Session Discussion
 - Review of Joint Council PowerPoint with the Committee
 - Meeting with City Mayors and Managers to review PowerPoint for Joint Council
- Three (3)-Month Outlook for Supervisory Committee Action Items



- SPWRP Influent Flow and Load Summary:
 - The measured flow to the SPWRP averaged 20.1 MGD in May 2019. The measured flow split was 44.9 / 55.1 percent between the cities of Littleton and Englewood respectively.
- Fiscal Management and Reporting

V. Adjournment

The next Supervisory Committee meeting is scheduled to be held by conference call on Wednesday, July 24, 2019 at 8:00 a.m., due to the Annual Joint Council Study Session on Thursday, July 25, 2019. More information to follow.

The annual Joint Council Study Session will take place on Thursday, July 25, 2019, from 8:00 a.m. to 10:00 a.m., in the South Platte Room at the South Platte Water Renewal Partners facility. There will be a complimentary breakfast prior at 7:30 a.m. for all Councilmembers, Supervisory Committee and staff.

Adjourned at 10:36 a.m.

Recording Secretary Signature _____

Brenda J. Varner

The SPWRP Supervisory Committee approved the June 27, 2019 meeting minutes via email on July 30, July 31, & Aug 2, 2019. Committee Member Reester, Committee Member Relph, Committee Member Hargrove, and Committee Member D'Andrea voted; four ayes, zero nays. Minutes approved. Committee Member Hargrove was absent from this meeting.