

MONTE VISTA WATER DISTRICT

10575 Central Avenue, Montclair, California • (909) 624-0035

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NOTICE AND AGENDA OF ENGINEERING COMMITTEE MEETING

WEDNESDAY, JANUARY 25, 2022 • 4:30 P.M.

Committee Members

Director Lopez – Chair

Director Erwin

Consistent with the provisions in Government Code section 54953(e)(2), the Engineering Committee will conduct this meeting by video and teleconference. Interested members of the public may participate in the meeting to observe and/or provide public comment by using the access information listed above.

1. CALL TO ORDER

2. PUBLIC COMMENT

3. AGENDA CHANGES/ADDITIONS

4. DISCUSSION AND/OR ACTION ITEMS

A. Committee Meeting Minutes

Meeting Date: January 11, 2022

Recommendation: Approve as presented

B. Bandera-San Bernardino Pipeline Replacement Project

Presenter: Bill Schwartz, Director of Engineering, Operations, & Maintenance

Recommendation: Recommend that the Board of Directors 1) transfer \$1,847,000 from reserves into Capital Improvement Project EN2021-07 – Bandera-San Bernardino Pipeline Replacement; and 2) authorize the Board of Directors president and general manager to enter into a contract with Dominguez General Engineering Inc. in a not-to-exceed amount of \$2,999,169 to provide construction services for the Bandera-San Bernardino Pipeline Replacement Project.

C. Plant 30 Wellhead Treatment Project

Presenter: Bill Schwartz, Director of Engineering, Operations, & Maintenance

Recommendation: Recommend that the Board of Directors authorize the general manager to enter into Contract Change Order 2 with Civiltec Engineering for \$28,539.60 resulting in a total contract not-to-exceed amount of \$480,215 to provide continuation of services through project completion.

5. ENGINEER'S REPORT (VERBAL)

6. ADJOURNMENT

DECLARATION OF POSTING

In accordance with the requirement of California Government Code §54954.2, this agenda has been posted in the display case at the gated entrance to our main office at 10575 Central Avenue, Montclair, California not less than seventy-two (72) hours prior to the meeting date and time above.

Written materials relating to open session agenda items, including those distributed to the majority of the Board of Directors after distribution of this agenda package, are available for public inspection during normal business hours at the District's main office, located at 10575 Central Avenue, Montclair, California.

Pursuant to the Americans with Disabilities Act, persons with a disability who require a disability-related modification or accommodation in order to participate in a meeting may request such modification or accommodation from the District's Board Secretary at (909) 624-0035 or by email at BoardSecretary@mvwd.org. Notification forty-eight (48) hours prior to the meeting will enable District staff to make reasonable arrangements to assure accessibility to the meeting.

**MINUTES OF THE REGULAR MEETING
OF THE ENGINEERING COMMITTEE
OF THE MONTE VISTA WATER DISTRICT
BOARD OF DIRECTORS**

January 11, 2022

DIRECTORS PRESENT

Tony Lopez, Director – Chair
Philip Erwin, Director

DIRECTORS ABSENT

None.

STAFF PRESENT

Justin Scott-Coe, General Manager
Stephanie Reimer, Assistant General Manager/Chief Financial Officer
Bill Schwartz, Director of Engineering, Operations & Maintenance
John Hughes, Water Systems Superintendent

OTHERS IN ATTENDANCE

None.

ITEM 1: CALL TO ORDER

{{click to select name}} called the meeting to order at 4:30 p.m.

ROLL CALL

General Manager Scott-Coe stated that the Engineering Committee (Committee) of the Board of Directors (Board) of the Monte Vista Water District (District) meeting will be conducted consistent with the provisions in Government Code section 54953(e)(2). Each Committee member confirmed their attendance and ability to hear the proceedings. Other attendees confirmed they could hear each Committee member. The Committee members and staff were reminded that any votes taken during the teleconference portion of the meeting must be taken by roll call vote. General Manager Scott-Coe provided brief instructions on appropriate conduct during the meeting.

ITEM 2: PUBLIC COMMENT

None.

ITEM 3: AGENDA CHANGES/ADDITIONS

None.

ITEM 4: DISCUSSION AND/OR ACTION ITEMS

A. Meeting Minutes: December 8, 2021

Upon motion by Director Erwin, seconded by Director Lopez, and unanimously carried:

M22-01-01

MOVED: Approve the December 8, 2022, Engineering Committee minutes, as by roll call vote:

Director Lopez	aye
Director Erwin	aye

B. Well 19 Sand Intrusion Investigation/Pump Repair Project

Water Systems Superintendent John Hughes explained to the Committee that Well 19, due to high sand production, Well 19 was removed from service in March 2021. On April 19, 2021, the District entered into an agreement with General Pump Company, Inc. (GPC) to complete the Well 19 Sand Intrusion Investigation/Pump Repair Project. Phase One of the Project was the investigative portion for a not-to-exceed price of \$300,000. Staff intended on coming back to the Board for a budget amendment for Phase Two once the required repairs were identified to return Well 19 back to service.

Through test pumping and dynamic video, GPC was able to identify the location of the sand intrusion, and staff developed a plan to mitigate the sand. To confirm their findings, GPC pulled the test pump and made modifications to the pump by installing a packer below the pump suction which would seal off the lower section of perforations that were producing sand. A Variable Frequency Drive (VFD) allowed control of the pump’s speed to avoid damage to the well upon startup. Staff was successful in operating the pump at 1,300 gpm without producing sand; however, the produced water exceeded the regulatory requirements for nitrates and 1,2,3-Trichloropropane.

Due to the potential severe restrictions on imported water supply beginning as early as May of 2022, District staff has determined that emergency conditions exist, requiring expedited development of additional local water supplies. The general manager approved Contract Change Order 1 (CO) with GPC for \$335,360 for a new total contract not-to-exceed amount of \$635,360. The CO will cover the equipment purchase and labor to install a new water flush pump assembly, sand separator, and a VFD panel. By taking this action, the District is anticipating to have Well 19 back in service by April 2022 to help mitigate the potential loss or severe limitation of imported water supplies.

Discussion ensued.

Upon motion by Director Erwin, seconded by Director Lopez, and unanimously carried:

M22-01-02

MOVED: Recommend that the Board of Directors 1) ratify the general manager’s actions to approve Contract Change Order 1 with General Pump Company, Inc. for a not-to-exceed amount of \$335,360 to install a new water flush pump assembly, sand separator, and variable frequency drive; 2) amend the Fiscal Year Ending 2022 Amended Budget for the Well 19 Sand Intrusion Investigation/Pump Repair Project by \$50,000 from \$625,000 to \$675,000; and 3) approve the transfer of \$50,000 from reserves into Capital Outlay Project EN2021-03, as by roll call vote:

Director Lopez	aye
Director Erwin	aye

C. Reservoir 4 Repair and Recoating Project

Water Systems Superintendent John Hughes explained to the Committee that in Fiscal Year Ending 2020 the Board established Capital Improvement Project EN2020-01 – Reservoir Repair & Recoating in the amount of \$825,000. The project was initiated to address the repair and recoating needs for Reservoirs 4, 5, 18-2, and 18-3. Reservoir 18-3 required substantial rehabilitation and was completed for \$566,275. The Board approved a budget amendment in March 2021, bringing the total budget to \$963,000.

Reservoir 4, constructed in 1984, is a 1.67 million gallon steel welded tank that is a primary source that provides storage and water for the fire protection and distribution for Pressure Zone 2. On March 16, 2021, the District entered into an agreement with Superior Tank Solutions, Inc. to make modifications to the reservoir to achieve Occupational Safety and Health compliance and to recoat the interior coating to extend the life of the asset. The project start date was pushed back to November 22, 2021, due to conflicts with the I-10 Freeway Widening Project.

On December 14, 2021, the District was notified that the center vent rafters and supports were corroded to the point that it would require the supports to be cut back and the center support removed and replaced with a new fabricated halo ring and support system. In order to keep the project on schedule, the general manager approved Contract Change Order 1 for the not-to-exceed amount of \$22,800, bringing the total contract to \$419,525. The revised project total includes a 12% contingency.

Finally, Mr. Hughes presented staff's recommendation to close project EN2020-01 to segregate the repair and recoating of Reservoir 18-3 from other proposed repair and recoating projects, and to establish a new capital improvement project to complete the necessary repairs and recoating at Reservoir 4 and transfer the remaining unspent budget from EN2020-01 to the new project.

Discussion ensued.

Upon motion by Director Erwin, seconded by Director Lopez, and unanimously carried:

M22-01-02

MOVED: Recommend that the Board of Directors 1) establish Capital Improvement Project EN2022-06 – Reservoir 4 Repair and Recoating; 2) close Capital Improvement Project EN2020-01 – Reservoir Repair & Recoating, transferring the balance of \$396,725 in unexpended funds to EN2022-06; 3) ratify the general manager's approval of Contract Change Order 1 with Superior Tank Solutions, Inc. for a not-to-exceed amount of \$22,800 to make the necessary repairs to the center vent rafters and support system; and 4) approve the transfer of \$78,275 from reserves into Capital Outlay Project EN2022-06 for a total project budget of \$475,000, as by roll call vote:

Director Lopez	aye
Director Erwin	aye

ITEM 5: ENGINEER'S REPORT

Director of Engineering, Operations, & Maintenance Bill Schwartz provided his Engineer's Report to the Committee.

ITEM 6: ADJOURNMENT

Upon motion by Director Erwin, seconded by Director Lopez, and unanimously carried:

M22-01-03

MOVED: Adjourn the meeting, as by roll call vote:

Director Lopez	aye
Director Erwin	aye

There being no further business, Director Lopez adjourned the meeting at 5:01 p.m.

Respectfully submitted,

Justin M. Scott-Coe
General Manager/Secretary

DRAFT



January 25, 2022

Honorable Engineering Committee
Monte Vista Water District

SUBJECT: Bandera-San Bernardino Pipeline Replacement Project

STAFF RECOMMENDATION:

It is recommended that the Engineering Committee recommend that the Board of Directors:

1. Transfer \$1,847,000 from reserves into Capital Improvement Project EN2021-07 – Bandera-San Bernardino Pipeline Replacement; and
2. Authorize the Board of Directors president and general manager to enter into a contract with Dominguez General Engineering Inc. in a not-to-exceed amount of \$2,999,169 to provide construction services for the Bandera-San Bernardino Pipeline Replacement Project.

PRIOR BOARD ACTION:

On February 10, 2021, the Board of Directors approved the transfer of \$68,000 from reserves into Capital Improvement Project EN2021-07 and authorized the Board of Directors president and general manager to amend the contract with TKE Engineering, Inc. in a not-to-exceed amount of \$94,200 to provide survey and design services for the Bandera-San Bernardino Pipeline Replacement Project.

FINANCIAL IMPACT:

The Fiscal Year Ending 2022 Amended Budget provides project funding in the amount of \$1,353,000 for this project under Capital Improvement Project Number EN2021-07 – Bandera-San Bernardino Pipeline Replacement. Project-to-date expenditures total \$64,384.05. The proposed budget amendment will increase the Capital Improvement Budget by \$1,847,000, from \$23,114,296 to \$24,961,296, and reduce reserves by the same amount from \$37,551,690 to \$35,704,690.



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Sandra S. Rose
PRESIDENT

G. Michael Milhiser
VICE PRESIDENT

Manny Martinez
DIRECTOR / BOARD AUDITOR

Philip L. Erwin
DIRECTOR

Tony Lopez
DIRECTOR

CONSISTENCY WITH STRATEGIC PLAN GOALS/INITIATIVES:

Strategic Goal 3: Maintain and upgrade the District's infrastructure and facilities.

Initiative 3.1: Implement the Pipeline Replacement Program.

BACKGROUND

Monte Vista Water District's (District) approach to pipeline replacement is to retain external contractors to replace the District's pipelines. As part of the five-year Capital Improvement Program (CIP) plan, the District identified high priority pipelines for replacement. The District identified the Bandera-San Bernardino Pipeline Replacement Project (Project) and included it in the Fiscal Year Ending (FYE) 2022 Budget. This pipeline project was designed by TKE Engineering and competitively bid out to five pipeline contractors. The District received one responsive bid.

DISCUSSION

The Project was initially envisioned to replace the pipelines located along San Bernardino and Bandera streets respectively, replacing approximately 5,400 linear feet (LF) of pipeline. These pipes have experienced multiple leaks during the past five years and the pipe has exceeded its useful life. The Project will replace the existing steel pipe with C-900 polyvinyl chloride (PVC) pipe and increase the diameter to address hydraulic deficiencies in this area.

During construction of the Plant 30 Wellhead Treatment Plant Project, the District added a new pipeline to bring water from Plant 32 to Plant 30 for treatment along Benson Avenue. The permit conditions required that one southbound lane be repaved. This repaving permit condition included an area where an existing steel pipe was located. Unfortunately, the pressure and vibration created by the repaving process caused the existing steel pipeline to fail in approximately 30 locations. District staff repaired the pipeline but damaged the recently repaved areas. Since it is extremely likely that any replacement of this paving will cause additional leaks, staff recommends the District replace the pipeline along Benson Avenue as part of this Project. This change adds approximately 2,500 LF of pipeline replacement to the Project.

The Project is the first major pipeline replacement project pursued by the District during the COVID-19 pandemic, and the costs reflect issues associated with the pandemic. Evaluating the cost of the originally proposed project, the District budgeted \$1,353,000, but the final responsive low bid came in at \$2,014,402. This bid is also significantly higher than TKE's construction cost estimate of \$1,504,000, demonstrating the volatility of the current construction market and the inflationary pressures being experienced locally and across the country.

Staff recommends that the District proceed with the Project, adding the pipeline replacement in Benson Street. The revised cost estimate includes \$50,000 for encroachment permits from the City of Montclair and a 5% project contingency for a total project cost of \$3,200,000. Based on the contract duration, staff expects construction to be complete by July 2022.

Bandera-San Bernardino Pipeline Replacement Project

Respectfully submitted,



Hilton Saenz
Maintenance Superintendent



A. William Schwartz
Director of Engineering, Operations
& Maintenance



Stephanie A. Reimer
Assistant General Manager/
Chief Financial Officer



Justin M. Scott-Coe
General Manager



January 25, 2022

Honorable Engineering Committee
Monte Vista Water District

SUBJECT: Plant 30 Wellhead Treatment Project

STAFF RECOMMENDATION:

It is recommended that the Engineering Committee recommend that the Board of Directors authorize the general manager to enter into Contract Change Order 2 with Civiltec Engineering for \$28,539.60 resulting in a total contract not-to-exceed amount of \$480,215 to provide continuation of services through project completion.

PRIOR BOARD ACTION:

On June 10, 2020, the Board of Directors authorized the board president and general manager to enter into an agreement with Civiltec Engineering, Inc. to provide construction management and inspection services for the Plant 30 Wellhead Treatment Project in a not-to-exceed amount of \$369,715.40.

On December 15, 2021, the Board of Directors authorized the general manager to enter into Contract Change Order 1 with Civiltec Engineering, Inc. for \$81,960 to provide additional construction management and inspection service for the Plant 30 Wellhead Treatment Project.

FINANCIAL IMPACT:

The Fiscal Year Ending 2022 Amended Budget provides total project funding in the amount of \$16,978,249 for this activity under Capital Improvement Project Number EN2018-05 – Plant 30 Wellhead Treatment. Project-to-date expenditures total \$14,839,595.

CONSISTENCY WITH STRATEGIC PLAN GOALS/INITIATIVES:

Strategic Goal 2: Improve quality and reliability of water supply through local development and regional collaboration.

Initiative 2.2: Employ innovative techniques and treatment to provide high quality water.



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Philip L. Erwin
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Tony Lopez
DIRECTOR

BACKGROUND

The objective of the Plant 30 Wellhead Treatment Project (Project) is to provide water treatment facilities that would be able to treat 6 million gallons of water per day from Wells 30, 32, and 33, two wells at a time. This project will make Monte Vista Water District's (District) water supply portfolio more reliable and decrease the District's reliance on imported water. Both granular activated carbon and ion exchange technologies will be utilized to address both 1,2,3-Trichloropropane and nitrates, respectively. The Project has experienced significant delays in the Project schedule due to supply chain issues since the commencement of construction in September 2020.

In June 2020, the District retained Civiltec Engineering Inc. (Civiltec) to provide construction management services for the Project. Included in the original contract was a budget of \$369,715.40 to provide construction management, inspection services, and grant funding support. A contract amendment is required for Civiltec to provide continuation of these services through project completion and closure, which is expected by June 2022.

DISCUSSION

The original construction contract included a contract completion date of October 2021. Due to the COVID-19 pandemic and resulting supply chain issues, the project completion date has been extended, increase overall Project costs. These costs are associated with procurement of alternative system components and inspection services.

A major issue creating delays in the Project is the shortage of raw materials. This includes both commodities – piping, steel, and common electrical and mechanical components – and specialized equipment – brine pumps, programmable logic controllers, and engineered process components (i.e., control valves, measurement devices, etc.). In order to address these issues, staff, the construction management consultant, and the contractor have expended addition hours to review and implement these alternative solutions in order to recover Project schedule delays.

The other impact of these Project delays is the increase in the inspection hours. The work completed by the contractor still requires inspection, so Project delays result in increased hours. Civiltec has reduced inspection from full-time to part-time, but a net increase of inspection hours has still been required. The net effect is an increase of 90 days of inspection time. Civiltec realizes this is a major impact on the overall Project cost and has reduced their hourly inspection rate by 10% during this extended Project duration period.

Staff recommends that this contract change order be approved based on the description above. The cost associated with contract Change Order 2 is \$28,539.60. This results in the total contract value still within the Project's budget contingency and does not require additional funding.

Respectfully submitted,



Water Systems Superintendent



Director of Engineering, Operations
& Maintenance



Stephanie A. Reimer
Assistant General Manager/
Chief Financial Officer



Justin M. Scott-Coe
General Manager