WEST VALLEY WATER DISTRICT
855 W. BASE LINE ROAD, RIALTO, CA 92376
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WWW.WVWD.ORG

ENGINEERING, OPERATIONS AND PLANNING COMMITTEE MEETING AGENDA

Thursday, April 24, 2025, 6:00 PM

NOTICE IS HEREBY GIVEN that West Valley Water District has called a meeting of the Engineering, Operations and Planning Committee to meet in the Administrative Conference Room, 855 W. Base Line Road, Rialto, CA 92376.

BOARD OF DIRECTORS

President Gregory Young
Director Estevan Bennett

Members of the public may attend the meeting in person at 855 W. Base Line Road, Rialto, CA 92376, or you may join the meeting using Zoom by clicking this link: https://us02web.zoom.us/j/8402937790. Public comment may be submitted via Zoom, by telephone by calling the following number and access code: Dial: (888) 475-4499, Access Code: 840-293-7790, or via email to administration@wvwd.org.

If you require additional assistance, please contact administration@wvwd.org.

CALL TO ORDER

PUBLIC PARTICIPATION

Any person wishing to speak to the Board of Directors on matters listed or not listed on the agenda, within its jurisdiction, is asked to complete a Speaker Card and submit it to the Board Secretary, if you are attending in person. For anyone joining on Zoom, please wait for the Board President's instruction to indicate that you would like to speak. Each speaker is limited to three (3) minutes. Under the State of California Brown Act, the Board of Directors is prohibited from discussing or taking action on any item not listed on the posted agenda. Comments related to noticed Public Hearing(s) and Business Matters will be heard during the occurrence of the item.

Public communication is the time for anyone to address the Board on any agenda item or anything under the jurisdiction of the District. Also, please remember that no disruptions from the crowd will be tolerated. If someone disrupts the meeting, they will be removed.

DISCUSSION ITEMS

1. Updates to the Engineering, Operations and Planning Committee
2. March 27, 2025 Meeting Minutes **PG. 3**
3. Adopt Ordinance Titled an Ordinance of the Board of Directors of the West Valley Water District Instituting a Cross-connection Control Program to Protect the Public Water **PG. 6**
4. Change Order No. 8 with PCL Construction Inc. for the Oliver P. Roemer Water Filtration Facility Upgrade and Expansion Project **PG. 23**

ADJOURN

Please Note:

Material related to an item on this Agenda submitted to the Committee after distribution of the agenda packet are available for public inspection in the District's office located at 855 W. Baseline, Rialto, during normal business hours. Also, such documents are available on the District's website at www.wvwd.org subject to staff's ability to post the documents before the meeting.

Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in the above-agendized public meeting should be directed to the Board Secretary, Elvia Dominguez, at least 72 hours in advance of the meeting to ensure availability of the requested service or accommodation. Ms. Dominguez may be contacted by telephone at (909) 875-1804 ext. 703, or in writing at the West Valley Water District, P.O. Box 920, Rialto, CA 92377-0920.

DECLARATION OF POSTING:

I declare under penalty of perjury, that I am employed by the West Valley Water District and posted the foregoing Agenda at the District Offices on April 17, 2025.

Elvia Dominguez

Elvia Dominguez, Board Secretary

MINUTES

ENGINEERING, OPERATIONS AND PLANNING COMMITTEE MEETING

of the

WEST VALLEY WATER DISTRICT

March 27, 2025

I. CALL TO ORDER

Chair Young called the Engineering, Operations and Planning Committee meeting of the West Valley Water District to order at 6:00 p.m.

Attendee Name	Present	Absent	Late	Arrived
Gregory Young	☑	☐	☐	
Estevan Bennett	☑	☐	☐	
John Thiel	☑	☐	☐	
Linda Jadeski	☑	☐	☐	
Rocky Welborn	☑	☐	☐	
Joanne Chan	☑	☐	☐	

II. PUBLIC PARTICIPATION

Chair Young inquired if anyone from the public would like to speak. No requests were received, therefore Chair Young closed the public comment period.

III. DISCUSSION ITEMS

1. Updates to the Engineering, Operations and Planning Committee.

Director of Operations Chan provided a rainfall update for this water year indicating the amount of rain received has increased to 15 inches. Lead sampling tests were performed at various schools in our service area which found that one school had lead levels over the limit. The District assisted the school with additional sampling and the problem was resolved. Additionally, Ms. Chan provided an update on inspection and maintenance activities being performed on Well 2 indicating this item may be taken to the Board of Directors for potential repairs, depending on the inspection results.

Assistant General Manager Jadeski provided an update on State Water Project levels and the allocation which has increased to 35%, and provided an update on a request from Niagara Bottling Company to purchase Water from the Chino Groundwater Basin, however, staff did not recommend leasing the rights this year in order to increase our reserve bank.

Director of Engineering Welborn provided a report on the initial analysis for the Facilities Master Plan and planning level alternatives that are being developed by the consultant, PBK.

2. March 4, 2025, Adjourned Regular Meeting Minutes

The Committee approved the minutes.

3. Consider a Water System Infrastructure Installation and Conveyance Agreement with IV5 Bloomington Gateway Distribution Center, LLC for Bloomington Business Park Offsite (Jurupa Ave, Linden Ave, 5th St)

Director of Engineering Welborn presented the staff report for Item 3 and Item 4 at the same time.

The committee approved moving the item forward to the Board of Director's Consent Calendar.

RESULT:	**REFERRED TO BOARD**
	Next: 4/3/2025 6:00 PM

4. Consider a Water System Infrastructure Installation and Conveyance Agreement with IV5 Bloomington Gateway Distribution Center, LLC for Bloomington Business Park SP

Director of Engineering Welborn presented the staff report for Item 3 and Item 4 at the same time.

The committee approved moving the item forward to the Board of Director's Consent Calendar.

RESULT:	**REFERRED TO BOARD**
	Next: 4/3/2025 6:00 PM

5. Consider an Amendment to a Water System Infrastructure Installation and Conveyance Agreement and Reimbursement Agreement for R2-3 Reservoir Facilities Improvements with IDIL West Valley Logistics Center, LP.

Director of Engineering Welborn presented the staff report.

The committee approved moving the item forward to the Board of Director's Consent Calendar.

RESULT:	**REFERRED TO BOARD**
	Next: 4/3/2025 6:00 PM

6. Consider an Amendment to a Professional Services Agreement to Complete the Rialto Basin Groundwater Management Plan

Director of Engineering Welborn presented the staff report. Director Young described the history of the Rialto Basin Groundwater Council (RBGC) and its connection to potential recharge in the Cactus Basin. Director Welborn described the cost sharing arrangement of the RBGC and the proposed engineering services to be performed by Stetson Engineers.

The committee approved moving the item forward to the Board of Director's for discussion.

RESULT:	**REFERRED TO BOARD** **Next: 4/3/2025 6:00 PM**

7. Consider a Joint Community Facilities Agreement for Avila Collection TTM 20481 (CFD No. 2024-1) and Adopt Resolution Approving Agreement

Director of Engineering Welborn presented the staff report.

The committee approved moving the item forward to the Board of Director's Consent Calendar.

RESULT:	**REFERRED TO BOARD** **Next: 4/3/2025 6:00 PM**

IV. ADJOURN

Chair Young adjourned the meeting at 6:41 p.m.

ATTEST:

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Elvia Dominguez, Board Secretary

STAFF REPORT

DATE: April 24, 2025

TO: Engineering, Operations and Planning Committee

FROM: Joanne Chan, Director of Operations

SUBJECT: Adopt Ordinance Titled an Ordinance of the Board of Directors of the West Valley Water District Instituting a Cross-connection Control Program to Protect the Public Water

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STRATEGIC GOAL:

Strategic Goal 7 – Realize Health, Safety, and Regulatory Compliance
A. Prepare for and Comply with Evolving Water Regulations

MEETING HISTORY:

N/A

BACKGROUND:

The West Valley Water District (District) is committed to providing clean, safe drinking water to its residents and businesses. The District's cross-connection control program is a critical aspect of this commitment. The District's cross-connection control program is mandated by the State Water Resources Control Board (SWRCB). In 2024 the SWRCB adopted the Cross-Connection Control Policy Handbook (CCCPH) which replaced and expanded Title 17 of the California Code of regulations that had remained largely unchanged since its original adoption in the 1980s. The purpose of these standards is to protect the potable water supply of the District from the possibility of contaminants, pollutants, or water from unapproved sources entering the District's water distribution system through cross-connections.

DISCUSSION:

All existing public water systems must submit to the SWRCB a cross-connection control plan no later than 12 months after the effective date of the CCCPH, which would be July 1, 2025. District staff received approval from the SWRCB of the District's cross-connection control plan in March 2025. In response to recent changes in regulations governing cross-connection control, the District shall by ordinance adopt a cross-connection control program that establishes the District's requirements for installation, testing and maintenance of backflow prevention assemblies. Attached as **Exhibit A** is the Ordinance of the Board of Directors of the West Valley Water District Instituting a Cross-connection Control Program to Protect the Public Water. The District's cross-connection control program includes the following ten mandatory elements:

- Operating Rules or Ordinance
- Cross-Connection Control Program Coordinator

- Hazard Assessments
- Backflow Prevention
- Certified Backflow Prevention Assembly Testers and Certified Cross-Connection Control Specialists
- Backflow Prevention Assembly Testing
- Recordkeeping
- Backflow Incident Response, Reporting and Notification
- Public Outreach and Education
- Local Entity Coordination

Any person receiving or using water from the District shall comply with all provisions of the District's cross-connection control program.

FISCAL IMPACT:

There is no fiscal impact.

REQUESTED ACTION:

Forward a recommendation to the Board of Directors to:

1. Approve the adoption of an ordinance titled an ordinance of the Board of Directors of the West Valley Water District instituting a cross-connection control program to protect the public water.

2. Authorize the General Manager to execute all necessary documents.

Attachments

Exhibit A - Ordinance of the Board of Directors of the West Valley Water District Instituting a Cross-connection Control Program to Protect the Public Water.pdf

EXHIBIT A

ORDINANCE NO. __

AN ORDINANCE OF THE BOARD OF DIRECTORS OF THE WEST VALLEY WATER DISTRICT INSTITUTING A CROSS-CONNECTION CONTROL PROGRAM TO PROTECT THE PUBLIC WATER

WHEREAS, the Board of Directors ("Board") of the West Valley Water District ("District") imposes an orderly and adequate means of protection of the District water system from backflow, the requirements set forth below are reasonable and necessary for the protection of the District water system and the public health and welfare; and

WHEREAS, in 2024 the State Water Resources Control Board ("SWRCB") adopted the Cross-Connection Control Policy Handbook ("CCCPH") to build a foundation of awareness regarding the importance of backflow protection and cross-connection control, leading to the implementation of a robust cross-connection control program for public water systems; and

WHEREAS, the District desires to begin making updates to its rules and regulations to reflect changes in applicable laws governing cross-connections; and

WHEREAS, the Board now wishes to adopt this Ordinance in order to amend its Water Service Regulations to reflect such changes, and to make additional adjustments to its cross-connection control program.

NOW THEREFORE, THE BOARD OF DIRECTORS OF THE WEST VALLEY WATER DISTRICT DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. PURPOSE

The District is responsible for protecting its water supply from contamination by implementation of a cross-connection control program. The purpose of the cross-connection control program is (1) to protect the District's water supply against actual or potential cross-connection by isolating within the premise contamination that may occur because of some undiscovered or unauthorized cross-connection on the premises; (2) to eliminate existing connections between drinking water systems and other sources of water that are not approved as safe and potable for human consumption; (3) to eliminate cross-connections between drinking water systems and sources of contamination; (4) to prevent the occurrence of cross-connections in the future; and (5) to provide basic educational information on backflow prevention to build awareness within our community.

SECTION 2. AUTHORITY

The CCCPH is intended to satisfy the requirements set forth in the District's operating permit issued by the SWRCB. The CCCPH and its standards apply to all California public water systems as defined in California's Health and Safety Code (CHSC, section 116275(h)). Through the adoption of the CCCPH, the SWRCB is exercising its authority under California's Safe Drinking Water Act ("SDWA").

SECTION 3. DEFINITIONS

The following definitions apply to the terms used in the CCCPH:

"**Air-gap separation**" or "**AG**" means a physical vertical separation of at least two (2) times the effective pipe diameter between the free-flowing discharge end of a potable water supply pipeline and the flood level of an open or non-pressurized receiving vessel, and in no case less than one (1) inch.

"**Approved water supply**" means a water source that has been approved by the SWRCB for domestic use in a public water system and designated as such in a domestic water supply permit issued pursuant to section 116525 of the CHSC.

"**Auxiliary water supply**" means a source of water, other than an approved water supply, that is either used or equipped, or can be equipped, to be used as a water supply and is located on the premises of, or available to, a water user.

"**Backflow**" means an undesired or unintended reversal of flow of water and/or other liquids, gases, or other substances into a public water system's distribution system or approved water supply.

"**Backflow prevention assembly**" or "BPA" means a mechanical assembly designed and constructed to prevent backflow, such that while in-line it can be maintained and its ability to prevent backflow, as designed, can be field tested, inspected and evaluated.

"**Backflow prevention assembly tester**" means a person who is certified as a backflow prevention assembly tester.

*"***Community water system"** means a public water system that serves at least 15 service connections used by yearlong residents or regularly serves at least 25 year-long residents of the area served by the system.

"**Cross-connection**" means any actual or potential connection or structural arrangement between a public water system, including a piping system connected to the public water system and located on the premises of a water user or available to the water user, and any source or distribution system containing liquid, gas, or other substances not from an approved water supply.

"**Cross-connection Control Specialist**" means a person who is certified as a cross-connection control specialist.

"**Distribution system**" means any combination of pipes, tanks, pumps, etc., which delivers drinking water from a source or treatment facility to the consumer and includes: (1) disinfection facilities for which no Giardia or virus reduction is required; and (2) the composite of all distribution systems of a public water system.

"**Double check detector backflow prevention assembly**" or "**DCDA**" means a double check valve backflow prevention assembly that includes a bypass with a water meter and double check backflow prevention assembly, with the bypass's water meter accurately registering flow rates up to two gallons per minute and visually showing a registration for all rates of flow. This type of assembly may only be used to isolate low hazard cross-connections.

"**Double check detector backflow prevention assembly – type II**" or "**DCDA-II**" means a double check valve backflow prevention assembly that includes a bypass around the second check, with the bypass having a single check valve and a water meter accurately registering flow rates up to two gallons per minute and visually showing a registration for all rates of flow. This type of assembly may only be used to isolate low hazard cross-connections.

"**Double check valve backflow prevention assembly**" or "**DC**" means an assembly consisting of two independently-acting internally-loaded check valves, with tightly closing shut-off valves located at each end of the assembly (upstream and downstream of the two check valves) and fitted with test cocks that enable accurate field testing of the assembly. This type of assembly may only be used to isolate low hazard cross-connections.

"Hazard Assessment" means an evaluation of a user premises designed to evaluate the types and degrees of hazard at a user's premises.

"**High hazard cross-connection**" means a cross-connection that poses a threat to the potability or safety of the public water supply. Materials entering the public water supply through a high hazard cross-connection are contaminants or health hazards.

"**Low hazard cross-connection**" means a cross-connection that has been found to not pose a threat to the potability or safety of the public water supply but may adversely affect the aesthetic quality of the potable water supply. Materials entering the public water supply through a low hazard cross-connection are pollutants or non-health hazards.

"**Noncommunity water system"** means a public water system that is not a community water system.

"**Nontransient noncommunity water system"** means a public water system that is not a community water system and that regularly serves at least 25 of the same persons over six months per year.

"**Premises containment**" means protection of a public water system's distribution system from backflow from a user's premises through the installation of one or more air gaps or BPAs, installed as close as practical to the user's service connection, in a manner that isolates the water user's water supply from the public water system's distribution system.

"**Pressure vacuum breaker backsiphonage prevention assembly**" or "**PVB**" means an assembly with an independently-acting internally-loaded check valve and an independently-acting loaded air inlet valve located on the discharge side of the check valve;

with test cocks and tightly closing shutoff valves located at each end of the assembly that enable accurate field testing of the assembly. This type of assembly may only be used for protection from backsiphonage and is not to be used to protect from backpressure.

"**Public water system**" or "**PWS**" means a system for the provision of water for human consumption through pipes or other constructed conveyances that has 15 or more service connections or regularly services at least 25 individuals daily at least 60 days our of the year. A public water system includes the following: (1) any collection, treatment, storage, and distribution facilities under control of the operator of the system that are used primarily in connection with the system; (2) any collection or pretreatment storage facilities not under control of the operator that are used primarily in connection with the system; and (3) any water system that treats water on behalf of one or more public water systems for the purpose of rendering it safe for human consumption.

"**Recycled Water**" is a wastewater which as a result of treatment is suitable for uses other than potable use.

"**Reduced pressure principle backflow prevention assembly**" or "**RP**" means an assembly with two independently acting internally-loaded check valves, with a hydraulically operating mechanically independent differential-pressure relief valve located between the check valves and below the upstream check valve. The assembly shall have shut-off valves located upstream and downstream of the two check-valves, and test cocks to enable accurate field testing of the assembly.

"**Reduced pressure principle detector backflow prevention assembly**" or "**RPDA**" means a reduced pressure principle backflow prevention assembly that includes a bypass with a water meter and reduced pressure principle backflow prevention assembly, with the bypass's water meter accurately registering flow rates up to two gallons per minute and visually showing a registration for all rates of flow.

"**Reduced pressure principle detector backflow prevention assembly – type II**" or "**RPDA-II**" means a reduced pressure principle backflow prevention assembly that includes a bypass around the second check, with the bypass having a single check valve and a water meter accurately registering flow rates up to two gallons per minute and visually showing a registration for all rates of flow.

"**Spill-resistant pressure vacuum breaker backsiphonage prevention assembly**" or "**SVB**" means an assembly with an independently-acting internally-loaded check valve and an independently-acting loaded air inlet valve located on the discharge side of the check valve; with shutoff valves at each end and a test cock and bleed/vent port, to enable accurate field testing of the assembly. This type of assembly may only be used for protection from backsiphonage and is not to be used to protect from backpressure.

"**State Water Resources Control Board**" or SWRCB means the SWRCB or the local primacy agency having been delegated the authority to enforce the requirements of the CCCPH by the State Water Resources Control Board.

"**Transient noncommunity water system"** means a noncommunity water system that does not regularly serve at least 25 of the same persons over six months per year.

"**User premises**" means the property under the ownership or control of a water user and is served, or is readily capable of being served, with water via a service connection with a public water system.

"**User's service connection**" means either the point where a water user's piping is connected to a water system or the point in a water system where the approved water supply can be protected from backflow using an air gap or backflow prevention assembly.

"**User Supervisor"** means a person designated by a water user to oversee a water use site and responsible for the avoidance of cross-connections.

"**Water supplier**" means a person who owns or operates a public water system.

"**Water user**" means a person or entity who is authorized by the PWS to receive water.

SECTION 4. HAZARD ASSESSMENTS

1. To evaluate the potential for backflow into the District's distribution system, the District shall complete an initial hazard assessment of all service connections including single-family residences (approximately 25,000 total connections) within the service area in 5 years or by July 1, 2030. Methods used to conduct the initial hazard assessment are as follows:

    a. Satellite photography via the Geographic Information System ("GIS") followed by physical assessment at low hazard premises, e.g., single-family residences.
    b. New customers shall complete self-reporting forms at the time of application requesting new service.
    c. Encourage existing customers to complete self-reporting forms at outreach events
    d. In-person assessment.
    e. Review of water use practices.
    f. Review of water quality complaints.
    g. Review of water quality lab results from routine monitoring.
    h. Review of plumbing plans.

2. The District shall review all requests for new services to determine if backflow protection is needed. Plans and specifications must be submitted to the District upon request for review of possible cross-connection hazards as a condition of service for new service connections. If it is determined that a backflow prevention device is necessary to protect the public water system, the required "lead free" device must be installed before service will be rendered.

3. The District may require an on-premise inspection to any new or existing site to evaluate cross-connection hazards. The District will send a written notice requesting an inspection appointment to each affected water user. Any water user that cannot, or

will not, allow an on-premise inspection of their piping system shall be required to install a "lead free" backflow prevention device as deemed necessary by the District.

4. The District may require a re-inspection at its discretion for cross-connection hazards of any premise to which it serves water. The District will contact the water user to request an inspection. Any water user that cannot, or will not, allow an on-premise inspection of their piping system shall be required to install a "lead free" backflow prevention device as deemed necessary by the District.

5. The District will notify the water user in writing of the water system survey findings, listing corrective action to be taken, if any. A period of 30 days will be given to complete all corrective action required, including the installation of new or upgraded backflow prevention devices if required. The District, at its sole discretion, may grant a time extension to perform for the corrective action. If the corrective action is not completed within the allotted time, the District may terminate or suspend water service to the affected water user until the required corrective actions are taken and non-compliance fees are paid in full.

6. After the initial hazard assessment described above, the District must conduct a hazard assessment under the following criteria:

    a. If a user premises changes account holder, excluding single family residences;
    b. If a user premises is newly or re-connected to the District;
    c. If evidence exists of changes in the activities or materials on a user's premises;
    d. If backflow from a user's premises occurs;
    e. Periodically, every ten years or as needed as stated above.
    f. If the SWRCB requests a hazard assessment of a user's premises; and
    g. If the PWS concludes an existing hazard assessment may no longer be accurately represent the degree of hazard.

7. Fire protection systems shall be protected by no less than DC protection. If a fire protection system is not protected, the District must ensure protection is installed within ten years of adoption of the CCCPH.

    a. A high hazard cross-connection fire protection system, including but not limited to fire protection systems that may utilize chemical addition or an auxiliary water supply, must have no less than RP protection.
    b. For existing fire protection systems that do not meet the above requirements or cannot install DC protection within ten years of adoption of the CCCPH, the District may propose:

        i. An alternate date; or
        ii. An alternative method of backflow protection that provides at least the same level of protection to public health.

8. The District shall conduct site surveys and/or hazard assessments of the entire District every ten (10) years after the initial hazard assessment. Site surveys and hazard

assessments will be conducted by staff ANSI certified Cross-Connection Control Specialists. All surveys and assessments will be uploaded into the backflow management database.

9. The District maintains a pre-qualified list of certified testers and specialists. In order to be on the list, a contractor must (1) demonstrate competency by passing a hands-on exam conducted by District staff, (2) possess valid tester and/or specialist certification by a certifying organization, accredited by the American National Standards Institute (ANSI) in accordance with ISO/IEC 17024, and (3) provide field test kit or gage equipment accuracy verification record to the District. Provisions for revocation from the list include but not limited to, falsifying information or providing negligent recommendations inconsistent with industry-standard cross-connection control guidelines.

SECTION 5. WATER USER NOTIFICATION FOR TESTING AND MAINTENANCE

The District uses a backflow management data system to maintain records for hazard assessments, backflow testing and maintenance.

1. The District will notify affected water users by mail when annual testing of their device is required and supply users with the necessary documentation regarding backflow prevention device information. This written notification shall give the water user 30 days to complete the required testing and submit the necessary backflow test certification to the District.

    a. If the device fails, untestable or needs to be replaced, the tester must notify the water user and the District within three days.
    b. The repair or replacement and re-test must be completed and returned to the District within fifteen (15) days from the date the device failed.
    c. Non-testable backflows will need to be replaced.
    d. Any backflow test forms received after the due date; the test form becomes invalid. This is to ensure the test form has not been compromised to meet the due date.

2. The notification will include a list of District certified backflow testers. The affected water user shall retain a certified tester from the list of the District approved backflow prevention assembly testers to perform the required test(s).

3. Each backflow tester must be AWWA Backflow Prevention Assembly (BPA) Tester certified. Their field test kit or gage equipment must be verified for accuracy and certified. BPA field test results must be completed neatly, accurately and true. Field test forms will be provided by the District and included with the annual notification. All annual tests must be submitted to the District via email (backflow@wvwd.org).

    a. The District is required to report any tester that falsifies test forms to all regulatory agencies.

b. The District reserves the right to conduct an audit on a BPA Tester at any time regarding their testing procedures.

4. After the allotted 30-day period, a second written notice will be sent to each water user who failed to provide an acceptable backflow test certification for their backflow prevention device. The second notice will allow the water user an additional 30-day period to have their backflow prevention device tested and an acceptable test certification submitted to the District or allow the water user to request termination of service. If the water user fails to supply the District with either an acceptable test certification or a request for termination of service within the two (2) 30-day periods, the District will issue a final shutoff notice and the District may suspend or terminate water service to the water user until the required test is completed. If the District must suspend or terminate water service, fines will be assessed to the water user's account.

5. Should the backflow prevention device not pass the backflow test, the District will terminate or suspend water service to the affected water user until the subject device is repaired, retested and shown to be operating properly. Non-testable backflows will need to be replaced.

SECTION 6. GENERAL PROVISIONS

1. Whenever backflow protection has been found necessary (including but not limited to commercial properties, landscape nurseries, manufacturing facilities, hospitals, nursing homes, multi-family units, and facilities including any and all property having fire sprinkler systems or private fire hydrants), the District will require the water user to install a District-approved backflow prevention device at the water user's sole expense for continued services or before new service will be rendered. These costs shall include all labor and material necessary to construct or modify the service connection connecting to the District's water main, install the backflow device itself, construct or modify any piping work to be completed on the water user's side of the backflow device, and the removal of any interfering vaults.

2. Wherever backflow protection has been found necessary on a water supply line entering a water user's premises, then any and all water supply lines from the District's mains entering such premises, buildings, or structures shall be protected by a District-approved "lead free" backflow prevention device. The water user shall only install "lead free" backflow prevention devices that have been approved by the District.

3. Each service connection from the District water system to premises having an auxiliary water supply shall be protected against backflow of water from the premises into the District's water system unless the auxiliary water supply is accepted as an additional source by the District and is approved by the public health agency having jurisdiction.

4. Backflow prevention devices shall be installed on the service connection to any premises having (a) internal cross-connections that cannot be permanently corrected and controlled to the satisfaction of the District, or (b) intricate plumbing and piping arrangements, or where entry to all portions of the premises is not readily accessible

for inspection purposes, making it impracticable or impossible to ascertain whether or not cross-connections exist.

5. Any property having two or more services supplying water from different water distribution mains to the same building, structure, or premises through which an interstreet main flow may occur, shall have at least a standard check valve on each water service to be located adjacent to and on the property side of the respective meters. Such check valves shall not be considered adequate if backflow protection is deemed necessary to protect the District's mains from pollution or contamination in such case the installation of a District-approved backflow devices at such service connections shall be required.

6. Backflow prevention devices shall be installed in accordance with the District's standard drawings, which may be updated periodically by the District. The standard drawings also delineate the limit of the District and water user's responsibility for maintaining the backflow service connection.

7. Installation criteria are needed to ensure that a backflow prevention assembly can operate correctly, and that the required testing can be performed to reliably protect the distribution system at all times. An assembly that is below grade or in an inaccessible location may not allow the tester to correctly perform the field test. The District will allow existing double check valve assemblies to remain in place if they can pass a field test and be repaired. Double check valve backflow prevention assemblies that cannot be repaired or newly installed assemblies will be required to be installed above grade. This allows flexibility for operating cost increases.

SECTION 7. BACKFLOW DEVICE REMOVAL

The water user, or their agent, shall obtain approval from the District before removing, relocating, or replacing a backflow prevention device. Such approval will be granted at the District's sole discretion.

1. Removal: The use of a device may be discontinued and the device removed from service upon presentation of sufficient evidence to the District to verify that a hazard no longer exists or is not likely to be created in the future.

2. Relocation: The District, at its sole discretion, may allow the relocation of a backflow prevention device, so long as the new location continues to provide the required protection and meet the District's installation requirements. A retest of the relocated backflow prevention assembly will be required following the relocation of the device.

3. Repair: A device may be removed for repair, provided the water use is either discontinued until the repair is completed and the repaired device is reinstalled and returned to service, or the service connection is equipped with another backflow protection approved by the District. A passing/satisfactory retest will be required following every repair of the device.

4. Replacement: A device may be removed and replaced provided the water use is discontinued until the replacement device is installed. All replacement devices must be approved by the District, commensurate with the degree of hazard involved, and be "lead free." All backflow prevention device replacements, including service piping, shall be constructed up to the current District standards.

SECTION 8. WATER SERVICE TERMINATION

When the District encounters water uses that represent a clear and immediate hazard to the potable water supply that cannot be immediately abated, the District shall institute the procedure for discontinuing the District water service.

1. The District will terminate service to a water user's premises after two (2) written notices have been sent specifying the corrective action needed and the time period in which it must be completed. If no action is taken within the allowed period of time, water service may be terminated. Conditions or water users fall into this category that creates a basis for water service termination shall include, but are not limited to the following items:

    a. Refusal to install or upgrade to a required "lead free" backflow prevention device.
    b. Refusal to test a backflow prevention device.
    c. Refusal to repair a failing backflow prevention device.
    d. Refusal to replace a failing backflow prevention device.

2. The District will make a reasonable effort to contact and advise the water user of record of the intent to terminate water service and terminate water supply and lock service valve. The water service will remain inactive until the District has approved correction of violations. Conditions or water users fall into this category that create a basis for water service termination shall include, but are not to limited to the following items:

    a. Direct or indirect connection between the public water system and a sewer line.
    b. Unprotected direct or indirect connection between the public water system and a system or equipment containing contaminants.
    c. Unprotected direct or indirect connection between the public water system and an Auxiliary Water System.
    d. A situation which presents an immediate health hazard to the public water system public health.

SECTION 9. BACKFLOW INCIDENT RESPONSE AND REPORTING

1. If a backflow incident or an unprotected cross-connection is observed at the BPA or prior to the user premises during field testing, the certified backflow tester must notify the District as soon as possible, within 24 hours.

2. Other possible indicators of backflow include customer complaints of odor, discoloration of the water, or direct physical harm from the contact with the water,

drops in operating pressure, drops in disinfectant residual, or total coliform and heterotrophic plate counts detections. Each water quality complaint shall be investigated.

3. The District will immediately investigate and discontinue service to the user premises if a backflow incident is confirmed. Water service must not be restored to that user premises until the District receives confirmation of a passing BPA field test form from a certified backflow prevention assembly tester and the assembly is protecting the District.

4. The District will document the findings of the backflow incident and notify the SWRCB and local health agencies of any known or suspected incident of backflow within 24 hours of the determination. If required by the SWRCB, the District must issue a Tier 1 public notification pursuant to CCR, Title 22, Section 64463.1.

5. If required by the SWRCB, the District must submit, by a date specified by the SWRCB, a written incident report describing the details and affected area of the backflow incident, the actions taken by the District in response to the backflow incident, and the follow-up actions to prevent future backflow incidents. The written report must contain, at a minimum, the information requested on the Backflow Incident Reporting Form.

SECTION 10. ENTITY COORDINATION

Whenever there is an issue with a fire service, District staff notifies the business owner to alert the local fire department of a fire watch if the fire service has to be down for more than four (4) hours. In addition, law enforcement is notified of any backflow vandalism or theft by either the business owner or contractor, or by the District staff for District property. Other local entities may include but are not limited to plumbing, permitting, health officials, maintenance, public and private entities.

SECTION 11. RECORDKEEPING

The District must maintain the following records for a minimum of three (3) previous calendar years:

1. The two most recent hazard assessments for each user premise;
2. For each BPA, the associated hazard or application, location, owner, type, manufacturer and model, size, installation date, and serial number;
3. For each AG installation, the associated hazard or application and the location, owner and as-built plans of the AG;
4. Results of all BPA field testing and AG inspection for the previous three calendar years, including the name, test date, repair date, and certification number of the backflow prevention assembly tester, as well as the current field test kit or gauge equipment accuracy verification for each BPA field test, and AG inspection;
5. Repairs made to, or replacement or relocation of, BPAs for the previous three calendar years;

6. The most current cross-connection tests (e.g. shutdown test, dye test);
7. Descriptions and follow-up actions related to all backflow incidents;
8. If any portion of the cross-connection program is carried out under contract or agreement, a copy of the current contract or agreement;
9. The current District Cross-Connection Control Plan; and
10. Any public outreach or education materials issued for the previous three calendar years.

All information listed above must be available to the SWRCB upon request.

SECTION 12. PUBLIC OUTREACH AND EDUCATION

The District distributes literature for both adults and children during our Earth Day event and various outreach events. In addition, the District has an email (backflow@wvwd.org) that is specific to cross-connection and backflow prevention for certified testers to send test reports and to respond to questions the public may have regarding cross-connection and backflow prevention. The District also includes information on our website and in our Service Rules & Regulations which is publicly available at https://www.wvwd.org/departments/cross-connection-backflow-prevention.

SECTION 13. PUBLICATION

The President of the Board of Directors shall sign this Ordinance and the Secretary of the Board of Directors shall attest thereto, and this Ordinance shall be in full force and effect immediately upon adoption. Within 15 days after adoption of this Ordinance, a summary of this Ordinance shall be published with the names of the Directors voting for and against this Ordinance and a certified copy of the full text of this Ordinance, along with the names of those Directors voting for and against this Ordinance, shall be posted in the District offices.

SECTION 14. EFFECTIVENESS

This Ordinance shall take effect immediately upon adoption

SECTION 15. CONTROLLING EFFECT

This Ordinance shall supersede all previously adopted conflicting resolutions, ordinances, or motions of the Board, to the extent of such conflict.

SECTION 16. SEVERABILITY

If any section, subsection, clause or phrase in this Ordinance is for any reason held invalid, the validity of the remainder of this Ordinance shall not be affected thereby. The Board hereby declares that it would have passed this Ordinance and each section, subsection, sentence, clause, or phrase thereof, irrespective of the fact that one or more sections, subsections, sentences, clauses or phrases or the application thereof be held invalid.

PASSED, APPROVED AND ADOPTED THIS 1ST DAY OF MAY, 2025.

_____
Gregory Young
President of the Board of Directors
West Valley Water District

ATTEST:

_____
Elvia Dominguez
Board Secretary

CERTIFICATION

I, Elvia Dominguez, Board Secretary of the West Valley Water District, do hereby certify that the foregoing Ordinance was duly adopted by the Board of Directors of the West Valley Water District at a regular meeting held on the 1st day of May 2025, by the following vote:

AYES: DIRECTORS: Garcia, Moore, Jenkins, Young
NOES: DIRECTORS: None.
ABSENT: DIRECTORS: None.
ABSTAIN: DIRECTORS: None.

Dated: May 1, 2025

_____
Elvia Dominguez
Board Secretary

STAFF REPORT

DATE: April 24, 2025

TO: Engineering, Operations and Planning Committee

FROM: Rocky Welborn, Director of Engineering

SUBJECT: Change Order No. 8 with PCL Construction Inc. for the Oliver P. Roemer Water Filtration Facility Upgrade and Expansion Project

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STRATEGIC GOAL:

Strategic Goal 1 - Manage and Deliver a Safe, Reliable, and Sustainable Water Supply

MEETING HISTORY:

None.

BACKGROUND:

On February 2023 the Board of Directors approved a $3,000,000 construction contingency for the Oliver P. Roemer Water Filtration Facility Upgrade and Expansion project which was set aside for unexpected costs during construction. Construction contingency is a form of risk management used to avoid cutting costs, to keep the project's schedule on track and to ensure material and workmanship quality. It is also used to cover other costs such as:

- Unknown underground conflicts
- Unforseen conditions and services
- Owner-requested changes and/or design upgrades and modifications

Unexpected costs are inevitable on a project of this magnitude and within the current unpredictable construction/procurement environment. Identifying the need for the unexpected cost through a change order and managing them as they arise are key to the project's success.

To date, the District has approved 7 change orders to address project needs.

DISCUSSION:

Attached as Exhibit A is Change Order No. 8 for the above referenced project. This change order includes extra items of work arising from unexpected utility conflicts with proposed improvements, lack of accurate as-built records and/or malfunctioning existing equipment, and owner requested changes. Also included in this Change Order is a credit from a previously approved change order item that was executed on a time and materials basis and did not incur the proposed approved cost. A brief description of the recommended changes included in the change order is provided below:

1. Unforeseen Services: Two unforeseen site conditions were encountered since the last change order including; 1) Excess concrete removal of a filter building 1 footing, and , 2) Additional time and materials from

the landscape subcontractor to reroute irrigation lines around an existing duct bank along Riverside Avenue interfering with the landscape and irrigation systems.

2. Minor Improvements: Various upgrades and modifications have been identified as the Operations Building and Filter Building 2 are being finalized; 1) Double containment pipe to contain a pressurized water pipe routed over electrical and information technology equipment, and 2) labor to install filter building 2 analyzer instruments in stainless steel panels to protect them from the elements, prolong the analyzer expected useful life and improve future maintenance activities.
3. Converse Allowance: The original construction contract and change order adjustments included an allowance of $280,000 for soils, materials testing, and specialty inspections for the project. This allowance has been fully leveraged due the ongoing construction activities for the last 24-months; therefore, it is estimated that an additional $55,000 ($31,064 has already been incurred and $23,936 is reserved to complete the project, if needed).
4. Credits: Following approval of sewer replacement activities authorized in Change Order 7, the project team proposed an alternative rehabilitation approach which included the installation of a polymer liner instead of the original proposal of a complete replacement. In-situ rehabilitation techniques are generally less expensive than pipeline replacements because they can be installed relatively quickly and do not require heavy equipment to dig and lay the pipe material. The savings of the completed activities was $18,683.60 which is being credited back to the District.

No time impacts to the project schedule result from this change order.

FISCAL IMPACT:

The added cost to perform the additional work as outlined in Change Order No. 8 is $71,828.59 the described credits are $18,683.60 for a net cost increase of $53,144.99. The net cost for this change order is covered through the existing construction contingency which will leave $1,750,840 available for any future change orders, if needed. This change order will increase the contract amount to $60,366,030.98 (see table below).

CHANGE TO CONTRACT AMOUNT

Original Contract Amount	$59,116,871.00
Change Orders #1-#7 (Net Amount)	$1,196,014.98
New Contract Amount	$60,312,885.98
Change Order #8 (Net including credits)	$53,114.99
New Contract Amount	**$60,366,030.97**

CONTINGENCY AMOUNT

Original Contingency Amount	$3,000,000.00
Change Order #1-#8	$1,249,129.97
Remaining Contingency	$1,750,870.03

REQUESTED ACTION:

Staff recommends that the Committee forward a recommendation to the Board of Directors to:

1. Approve Change Order No. 8 with PCL Construction, Inc. in the amount of $53,144.99 for the Oliver P. Roemer WFF Upgrade and Expansion Project and;
2. Authorize the General Manager to execute all necessary documents.

Attachments

Exhibit A - Change Order 8.pdf

WEST VALLEY WATER DISTRICT

CHANGE ORDER

Order No. 8
Date 4/14/2025
Agreement Date 10/31/2022
Sheet 1 of 3

Owner: West Valley Water District

Project: Oliver P Roemer Water Filtration Facility Upgrade and Expansion

Contractor: PCL Construction, Inc

The following changes are hereby made to the Contract Documents:

ITEM NO.	EXTRA WORK DESCRIPTION	ADD	DEDUCT	CALENDAR DAYS
1	Unforeseen Conditions	$6,966.28	-	-
2	Minor Improvements	$9,862.31	-	-
3	Allowance	$55,000.00	-	-
4	Credits		-$18,683.60	
	TOTALS	**$71,828.59**	-	-
TOTALS FOR CHANGE ORDER NO. 8		**$53,144.99**		0

DISCUSSION

Attached as Exhibit A is Change Order No. 8 for the above referenced project. This change order includes "extra" items of work arising from unexpected utility conflicts with proposed improvements, lack of accurate as-built records and/or malfunctioning existing equipment, and owner requested changes. Also included in this Change Order are allowances for material testing which are passed on without mark up, and credits from value engineering by PCL. A brief description of the recommended changes included in the change order is provided below:

1. Unforeseen Conditions: Two unforeseen site conditions were encountered since the last change order including; 1) Concrete Excess Pour at Filter Building 1, 2) An additional T&M from Marina for the overpoured duct bank along Riverside Ave interfering with the landscape.

2. Minor Improvements: Various upgrades and modifications have been identified as the Operations Building and Filter Building 2 are being finalized; 1) Double Containment Pipe that although is not a design requirements is recommended for protection of electrical equipment in the Operations Electrical Room, 2) Labor to install analyzer instruments in stainless steel custom panels at the filters.

3. Allowance: Material testing for this project are a straight pass through cost without markup. PCL obtained a discount for the remainder of the work left to do this year. This should be the final amount of allowance allocation needed to complete the project. Any unused funds will return to the District.

4. Credits: Sewer replacement work was authorized in change order 7 however not all the fund were used since value engineering took place during the construction. The sewer line was proposed to be fully replaced and after sewer line assessment by PCL it was determined that the scope could be reduced from total to partial replacement along with CIPP lining. The entire line was still rehabilitated. This line item is a result of shared cost savings.

No time impacts to the project schedule result from this change order.

CHANGE TO CONTRACT PRICE

Original Contract Price	$ 59,116,871.00
Current Contract Price Adjusted by Previous Change Order(s)	$ 60,312,885.98
Contract Price due to this Change Order shall be **increased**	$53,144.99
New Contract Price including this Change Order	$ 60,366,030.97

CHANGE TO CONTRACT TIME

Contract Time will be	No time impacts (Calendar Days)
Date for Completion of all Work	05/31/2025 (Date)

REQUIRED APPROVALS:

To be effective, this Change Order must be approved by the Owner, or as may otherwise be required by the Supplemental General Conditions.

	Alejandro Juarez	
Requested By (Contractor)	(Print Name)	4/15/2025 Date
	Paul Hermann	

Recommended By (Project Manager)	(Print Name)	Date
	Rocky Welborn	4/16/2025
Recommended By (Director of Engineering)	(Print Name)	Date
	John Thiel	
Recommended By (General Manager)	(Print Name)	Date
Accepted By (Owner)	(Print Name)	Date

Exhibit A
For Item #1

April 8, 2025

Paul Hermann
Water Market Leader
GHD
320 Goddard Way, Suite 200
Irvine, CA 92618

Rocky Welborn
West Valley Water District
855 W. Base Line P.O. Box 920
Rialto, CA 92377

Attn: Paul Hermann and Rocky Welborn

RE: FB1 Footing Overpour Conflict with MCC-H Duct Bank Routing - Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project – Request for Change

Mr. Hermann and Mr. Rocky,

Please accept the attached package as a Change Request, addressing the cost impacts associated with FB1 Footing Overpour Conflict with MCC-H Duct Bank Routing as communicated with WVWD/GHD.

The upon excavating for MCC-H duct bank along the footing of existing Filter Building 1, PCL encountered an unforeseen condition of an overpoured footing which would be in conflict with the new duct bank for MCC-H. Moreover, there as also demo of items that were not included in the original and latest scope of work in order to install MCC-H conduit routing.

Below is a summary of the associated pricing:

A. Breakdown of Pricing:
    a. **PCL:** Demo of excess poured footing along Filter Building 1, and demo of eyewash station and electrical panel that is no longer in use.

Sincerely,

Alejandro Juarez
Project Manager
ajuarez@pcl.com

PCL Construction, Inc.
3900 Kilroy Airport Way,Ste 110 Long Beach, CA 90806

CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

CRX # 085

PCO # TBD
DATE: 4/8/25
ESTIMATOR:

DESCRIPTION:

FB1 Footing Overpour Conflict with MCC-H Duct Bank Routing

DIRECT ESTIMATE			
LABOR		$	3,190.24
EQUIPMENT		$	-
MATERIALS		$	-
SUBCONTRACTOR		$	-
SUBTOTAL		**$**	**3,190.24**
DIRECT MARKUP			
LABOR	25%	$	797.56
EQUIPMENT	20%	$	-
MATERIALS	15%	$	-
SUBCONTRACTOR	5%	$	-
SUBTOTAL MARKUP		**$**	**797.56**
SUBTOTAL WITH DIRECT MARKUP		**$**	**3,987.80**
TOTAL ACTUAL WORK		**$**	**3,987.80**
GRAND TOTAL THIS CHANGE		**$**	**3,987.80**

FB1 Footing Overpour Conflict with MCC-H Duct Bank Routing 0 0 0 0 DATE **04/08/25**

	QTY	UNIT	EQUIP		LABOR EXPENSE				VENDOR		SUBCONTRACTOR		TOTAL
					MANHOURS		AMOUNT		SUPPLIED MATERIALS				
Labor			U.P.	TOTAL	MH/UNIT	TOTAL	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL	
T&M for 2/20/25	1.0	LS						$ 1,222.40					$ 1,222.40
T&M for 2/21/25	1.0	LS						$ 1,967.84					$ 1,967.84
EQUIPMENT													
Vendor Materials													
Subcontractor													
Materials													
				$ -		0.00		$ 3,190.24		$ -		$ -	$ 3,190.24

MARKUPS													
EQUIPMENT	20%			$ -									
OTHER ITEMS	5%												
LABOR	25%							$ 797.56					
MATERIALS	15%									$ -			
SUBCONTRACTS	5%											$ -	
SUBTOTALS WITH MARKUP				$ -				$ 3,987.80		$ -		$ -	$ 3,987.80

Notes:

April 9, 2025

Paul Hermann
Water Market Leader
GHD
320 Goddard Way, Suite 200
Irvine, CA 92618

Rocky Welborn
West Valley Water District
855 W. Base Line P.O. Box 920
Rialto, CA 92377

Attn: Paul Hermann and Rocky Welborn

RE: Differing Site Conditions- Unforeseen conditions on N Riverside Ave (Flatwork & Landscape)– Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project (CRX #69 missing T&M ticket) – Request for Change

Mr. Hermann and Mr. Rocky,

It has come to our attention that a Time and Material (T&M) cost from the subcontractor was missed in the original CRX (#69) that was submitted on January 16, 2025.

Please accept the attached package as a Change Request, addressing the cost impacts associated with unforeseen conditions encountered during the work on N Riverside Ave (Flatwork & Landscaping). During the excavation process, PCL & Marina identified several unforeseen encasements such as slurry encasements, concrete treated base, and multiple layers of asphalt.

As communicated to GHD on October 23rd, 2024, while excavating for the curb, gutter, and deceleration lane near the N Riverside Ave driveway entrance, an unforeseen encasement was encountered at a very shallow elevation, just below the asphalt level. The record drawings did not indicate the presence of this encasement, nor did they provide information on its purpose or contents. This encasement interfered with the designated area and elevation for the curb and gutter installation.

Secondly, as communicated to GHD on December 2nd, 2024, during excavation for the irrigation mainline on the west side of the newly installed sidewalk, unforeseen encasements were discovered at a shallow elevation just below the subgrade level. These encasements obstructed the planned route and depth of the irrigation mainline, which would have also impacted the future installation of trees and plants.

Lastly, as communicated to GHD on December 30th, 2024, while excavating for the planters, our landscaping subcontractor encountered a layer of slurry and asphalt at a shallow depth in the designated planting areas. The exact depth of this layer remains unknown. This unforeseen condition was not documented in the record drawings and has created obstacles to the proper installation of planters, potentially compromising their survival.

As communicated to GHD and West Valley Water District, and in accordance with the Prime Contract, PCL and

subcontractors performed the work associated with this change on a time and material basis, as described below.

Below is a summary of the pricing associated with the additional labor efforts related to unforeseen conditions encountered (slurry encasements/concrete treated base/Layers of Asphalt) at N Riverside Ave (Flatwork & Landscaping):

1. **Additional Efforts performed by Marina Landscape, Inc:**

T&M ticket was missed on CRX #69—please see the attached T&M tickets for reference.

Sincerely,

Alejandro Juarez
Project Manager
ajuarez@pcl.com

PROJECT: Oliver P. Roemer WFF 2021 Expansion

CRX # TBD

PCO # TBD
DATE: 4/8/25
ESTIMATOR:

DESCRIPTION:

Unforeseen Conditions at N Riverside Ave missing T&M

DIRECT ESTIMATE

LABOR		$	-
EQUIPMENT		$	-
MATERIALS		$	-
SUBCONTRACTOR		$	2,836.65
SUBTOTAL		**$**	**2,836.65**

DIRECT MARKUP

LABOR	25%	$	-
EQUIPMENT	20%	$	-
MATERIALS	15%	$	-
SUBCONTRACTOR	5%	$	141.83
SUBTOTAL MARKUP		**$**	**141.83**

SUBTOTAL WITH DIRECT MARKUP **$ 2,978.48**

TOTAL ADDITIONAL WORK $ 2,978.48

Unforeseen Conditions at N Riverside Ave

DATE **04/08/25**

	QTY	UNIT	EQUIP		LABOR EXPENSE MANHOURS		LABOR EXPENSE AMOUNT		VENDOR SUPPLIED MATERIALS		SUBCONTRACTOR		TOTAL
Labor			U.P.	TOTAL	MH/UNIT	TOTAL	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL	
		HRS											
		HRS											
		HRS											
		HRS											
EQUIPMENT													
Vendor Materials													
													$ -
Subcontractor													
Marina Landscape COR#104	1.0	LS										$2,836.65	$2,836.65
Mater													
				$ -						$ -		$ 2,836.65	$ 2,836.65
MARKUPS													
EQUIPMENT	20%			$ -									
OTHER ITEMS	5%												
LABOR	25%							$ -					
MATERIALS	15%									$ -			
SUBCONTRACTS	5%											$ 141.83	
SUBTOTALS WITH MARKUP				$ -				$ -		$ -		$ 2,978.48	$ 2,978.48

Notes:

Exhibit A
For Item #2

CONSTRUCTION

January 23, 2025

Paul Hermann
Water Market Leader
GHD
320 Goddard Way, Suite 200
Irvine, CA 92618

Rocky Welborn
West Valley Water District
855 W. Base Line P.O. Box 920
Rialto, CA 92377

Attn: Paul Hermann and Rocky Welborn

RE: PLC/Server Room Double Containment Piping System– Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project – Request for Change

Dear Mr. Hermann and Mr. Welborn,

Please find attached the Change Request package submitted to address the cost impacts associated with Operations Building PLC/Server Room Double Containment Pipe System. This request follows our verbal discussions, as well as written correspondence between PCL Construction, West Valley Water District, and GHD.

At the direction of WVWD and GHD, PCL initiated discussions with Stantec regarding the 1-1/2" copper water line located above the server inside the Server/PLC Room. WVWD and GHD expressed concerns about any potential risk of the copper line leaking in the future, which could result in water dripping onto the server cabinet. In collaboration with Stantec, Stantec reviewed these concerns and researched applicable building codes. The findings confirmed that no building code explicitly prohibits water piping from running above a server cabinet, nor is there a requirement for additional protection for piping located above this type of electrical equipment. Building codes generally permit pipes within ceiling spaces. After extensive discussions between Stantec, GHD, WVWD, and PCL, the recommended solution of implementing a double containment system, as proposed by Stantec, was determined to be the most suitable and acceptable approach to address the identified concerns. Ultimately the entire run of the 1-1/2" domestic cold water (DCW) copper line (CU01), running both north-south and east-west, will be fitted with a double containment piping system routing outside of the PLC/Server Room.

As previously communicated to GHD and West Valley Water District, and in accordance with the Prime Contract, PCL has completed the additional work related to the requested customization. A summary of the pricing associated with this customization, is provided below.

A. Breakdown of Pricing:

1. **PCL Construction, Inc.: Proper Installation of double containment system around the 1-1/2" DCW copper pipe running inside the operations building PLC/Server room.**

CONSTRUCTION

2. Ryan Herco: Furnishing of double containment piping and necessary components/equipment needed for proper installation of system.

Sincerely,

Alejandro Juarez
Project Manager
ajuarez@pcl.com

PCL Construction, Inc.
3900 Kilroy Airport Way,Ste 110 Long Beach, CA 90806

CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

CRX # 072

PCO # TBD
DATE: 1/23/25
ESTIMATOR:

DESCRIPTION:

Installation of PLC Room Double Containment Piping System

DIRECT ESTIMATE			
LABOR		$	1,459.68
EQUIPMENT		$	1,572.64
MATERIALS		$	1,645.45
SUBCONTRACTOR		$	-
SUBTOTAL		**$**	**4,677.77**
DIRECT MARKUP			
LABOR	25%	$	364.92
EQUIPMENT	20%	$	314.53
MATERIALS	15%	$	246.82
SUBCONTRACTOR	5%	$	-
SUBTOTAL MARKUP		**$**	**926.27**
SUBTOTAL WITH DIRECT MARKUP		**$**	**5,604.04**

TOTAL ADDITIONAL WORK $ 5,604.04

GRAND TOTAL THIS CHANGE $ 5,604.04

Installation of PLC Room Double Containment Piping System

DATE **01/23/25**

	QTY	UNIT	EQUIP		LABOR EXPENSE MANHOURS		LABOR EXPENSE AMOUNT		VENDOR SUPPLIED MATERIALS		SUBCONTRACTOR		TOTAL
Labor			U.P.	TOTAL	MH/UNIT	TOTAL	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL	
(2) Laborer Group 4	16.0	HRS			91.23	1459.68		$ 1,459.68					$ 1,459.68
Installation of the double containment system													
EQUIPMENT													
Foreman Truck (PCL)	16.0	HR	$ 37.19	$ 595.04									$ 595.04
Chipping Gun	16.0	HR	$ 41.35	$ 661.60									$ 661.60
Scissor Lift	2.0	days	$ 135.00	$ 270.00									$ 270.00
GF Contain It Gun (Installation Gun) *2 DAYS*	1.0	LS	$ 46.00	$ 46.00									$ 46.00
Vendor Materials													
Materials required for proper installation of Double containment Piping (Ryan Herco Quote)	1.0	LS								$ 1,645.45			$ 1,645.45
Subcontractor													
Materials													
				$ 1,572.64		1459.68		$ 1,459.68		$ 1,645.45		$ -	$ 4,677.77
MARKUPS													
EQUIPMENT	20%			$ 314.53									
OTHER ITEMS	5%												
LABOR	25%							$ 364.92					
MATERIALS	15%									$ 246.82			
SUBCONTRACTS	5%											$ -	
SUBTOTALS WITH MARKUP				$ 1,887.17				$ 1,824.60		$ 1,892.27		$ -	$ 5,604.04

Notes:

April 9, 2025

Paul Hermann
Water Market Leader
GHD
320 Goddard Way, Suite 200
Irvine, CA 92618

Rocky Welborn
West Valley Water District
855 W. Base Line Road.
Rialto, CA 92377

Attn: Paul Hermann and Rocky Welborn

RE: Analyzer panels install in FB2

Mr. Hermann and Mr. Rocky,

Please accept the attached package as a Change Request to reinstall the turbidity analyzers in the District-provided enclosures inside Filter Building 2. This change order captures all costs required including labor and equipment to install 3 enclosures that were provided by the District and 3 turbidimeters inside these enclosures.

- PCL field labor to install 3 turbidimeters inside the enclosures in FB2.
- ½ ton pickup truck.

Sincerely,

Alejandro Juarez
Project Manager
AJuarez@pcl.com

PCL Construction, Inc.

3900 Kilroy Airport Way, Ste 110, Long Beach, CA 90806

CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

PCO # TBD
DATE: 4/9/25
ESTIMATOR: HP

DESCRIPTION:

Analyzer panels in FB2

DIRECT ESTIMATE

LABOR		$	3,121.00
EQUIPMENT		$	297.52
MATERIALS		$	-
SUBCONTRACTOR		$	-
SUBTOTAL		**$**	**3,418.52**

DIRECT MARKUP

LABOR	25%	$	780.25
EQUIPMENT	20%	$	59.50
MATERIALS	15%	$	-
SUBCONTRACTOR	5%	$	-
SUBTOTAL MARKUP		**$**	**839.75**

SUBTOTAL WITH DIRECT MARKUP **$ 4,258.27**

TOTAL ADDITIONAL WORK $ 4,258.27

GRAND TOTAL THIS CHANGE $ 4,258.27

Analyzer panels in FB2 DATE **04/09/25**

DESCRIPTION	QTY	UNIT	EQUIP		LABOR EXPENSE				VENDOR SUPPLIED MATERIALS		SUBCONTRACTOR		TOTAL
					MANHOURS		AMOUNT						
			U.P.	TOTAL	MH/UNIT	TOTAL	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL	
Labor													
T&M for 3/10/2025	1.0	LS						$ 1,892.00					$ 1,892.00
T&M for 4/1/2025	1.0	LS						$ 1,229.00					$ 1,229.00
Equipment													
1/2 ton pickup truck	8.0	HR	$ 37.19	$ 297.52									$ 297.52
TOTAL DIRECT COST				$ 297.52				$ 3,121.00		$ -		$ -	$ 3,418.52
MARKUPS													
EQUIPMENT	20%			$ 59.50									
OTHER ITEMS	5%												
LABOR	25%							$ 780.25					
MATERIALS	15%									$ -			
SUBCONTRACTS	5%											$ -	
SUBTOTALS WITH MARKUP				$ 357.02				$ 3,901.25		$ -		$ -	$ 4,258.27

Notes:

Exhibit A
For Item #3

April 10, 2025

Paul Hermann
Water Market Leader
GHD
320 Goddard Way, Suite 200
Irvine, CA 92618

Rocky Welborn
West Valley Water District
855 W. Base Line P.O. Box 920
Rialto, CA 92377

Attn: Paul Hermann and Rocky Welborn

RE: Allowance for Material Testing – Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project – Request for Change

Mr. Hermann and Mr. Rocky,

Please accept the attached package as a Change Request, regarding the allowance allocation for material testing on this project, which typically have included, soils, concrete, and welding inspections.

The last change requests did not capture all of the budget for the remaining materials testing for this project. This Change Request to increase the allowance should capture the remainder of the costs for material testing on this project. This includes both past invoices and invoice amounts projected to the end of the project. After discussions with the vendor we also obtained a 3% discount for all invoice amounts in the year 2025, resulting in savings for the District.

Feel free to reach out with any questions.

Sincerely,

Alejandro Juarez
Project Manager
ajuarez@pcl.com

PCL Construction, Inc.
3900 Kilroy Airport Way,Ste 110 Long Beach, CA 90806

CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

CRX # 085

PCO # TBD
DATE: 4/10/25
ESTIMATOR:

DESCRIPTION:

Materal Testing Allowance 2025

DIRECT ESTIMATE				
LABOR			$	-
EQUIPMENT			$	-
MATERIALS			$	-
SUBCONTRACTOR			$	48,063.82
SUBTOTAL			**$**	**48,063.82**
DIRECT MARKUP				
LABOR	25%		$	-
EQUIPMENT	20%		$	-
MATERIALS	15%		$	-
SUBCONTRACTOR	5%			
SUBTOTAL MARKUP		MARK UP NOT APPLICABLE		
SUBTOTAL WITH DIRECT MARKUP			**$**	**48,063.82**
		TOTAL ACTUAL WORK	**$**	**48,063.82**
		GRAND TOTAL THIS CHANGE	**$**	**48,063.82**

Materal Testing Allowance 2025 0 0 0 0 DATE **04/10/25**

	QTY	UNIT	EQUIP		LABOR EXPENSE				VENDOR		SUBCONTRACTOR		TOTAL
					MANHOURS		AMOUNT		SUPPLIED MATERIALS				
Labor			U.P.	TOTAL	MH/UNIT	TOTAL	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL	
	1.0	LS											
	1.0	LS											
EQUIPMENT													
Vendor Materials													
Subcontractor													
Converse Invoice 22-81136-30-18 Remainder												$ 2,600.88	
Converse Invoice 22-81163-30-19												$ 11,601.86	
Converse Invoice 22-811163-30-21												$ 6,939.08	
Converse to date amount												$ 9,922.00	
Converse projection												$ 12,000.00	
Branco projection for welding												$ 5,000.00	
Materials													
				$ -		0.00		$ -		$ -		$ 48,063.82	$ -
MARKUPS													
EQUIPMENT	20%			$ -									
OTHER ITEMS	5%												
LABOR	25%							$ -					
MATERIALS	15%									$ -			
SUBCONTRACTS	5%												
SUBTOTALS WITH MARKUP (NO MARKUP APPLICABLE)				$ -				$ -		$ -		$ 48,063.82	$ 48,063.82

Notes:

Exhibit A
For Item #4

CONSTRUCTION

April 8, 2025

Paul Hermann
Water Market Leader
GHD
320 Goddard Way, Suite 200
Irvine, CA 92618

Rocky Welborn
West Valley Water District
855 W. Base Line P.O. Box 920
Rialto, CA 92377

Attn: Paul Hermann and Rocky Welborn

RE: Cost Savings for Differing Site Conditions- Unforeseen conditions on existing 6" sewer line- Oliver P Roemer Water Filtration Facility Upgrade and Expansion Project – Request for Change

Mr. Hermann and Mr. Rocky,

Please accept the attached package as a Change Request, addressing the cost impacts associated with the replacement of the existing 6 in. cast iron sewer line as requested by WVWD/GHD.

In Change Order 8, the District directed PCL to fully replace the existing sewer line that was going to be tied into which was assessed and determined to be in poor condition after investigation. In lieu of full replacement, PCL proposed to replace sections that were fully deteriorated and to CIPP line the remaining sections. To compensate PCL for taking on the risk and the efforts to develop this more cost-effective solution and self-perform a portion of the work instead of utilizing a more expensive subcontractor, PCL is sharing half of the savings.

Below is a summary of the associated pricing:

A. Breakdown of Pricing:
    a. **Pan-Pacific Mechanical (PPM):** Initially provided pricing for the excavation, demolition and replacement of the existing pipe 6-inch SDR 35 pipe. The ended up only providing the demolition and replacement of all but 30' of the sewer line and used a subcontractor to perform Cured In Place Pipe (CIPP) for the remaining 30' to the manhole.
    b. **PCL:** PCL self-performed the work for the excavation, backfill and compaction of the subcontract work that PPM was proposed to perform.

Sincerely,

Alejandro Juarez
Project Manager
ajuarez@pcl.com

PCL Construction, Inc.
3900 Kilroy Airport Way,Ste 110 Long Beach, CA 90806

CHANGE ORDER PROPOSAL

PROJECT: Oliver P. Roemer WFF 2021 Expansion

CRX # 08X

PCO # TBD
DATE: 4/8/25
ESTIMATOR:

DESCRIPTION:

Replacement of existing 6" sewer line

DIRECT ESTIMATE			
LABOR		$	4,867.20
EQUIPMENT		$	1,086.48
MATERIALS		$	-
SUBCONTRACTOR		$	35,322.11
SUBTOTAL		**$**	**41,275.79**
DIRECT MARKUP			
LABOR	25%	$	1,216.80
EQUIPMENT	20%	$	217.30
MATERIALS	15%	$	-
SUBCONTRACTOR	5%	$	1,766.11
SUBTOTAL MARKUP		**$**	**3,200.20**
Value Engineering		**$**	**12,000**
SUBTOTAL WITH DIRECT MARKUP		**$**	**44,475.99**

TOTAL ACTUAL WORK	**$**	**44,475.99**
PREVIOSLY APPROVED CHANGE ORDER	**$**	**81,843.20**
TOTAL COST SAVINGS TO BOTH PCL/DISTRICT	**$**	**37,367.21**
SHARED COST SAVINGS	**$**	**18,683.60**
GRAND TOTAL THIS CHANGE	**$**	**(18,683.60)**

Cost Savings of Replacement of existing 6" sewer line

DATE **04/08/25**

	QTY	UNIT	EQUIP		LABOR EXPENSE				VENDOR		SUBCONTRACTOR		TOTAL
					MANHOURS		AMOUNT		SUPPLIED MATERIALS				
Labor			U.P.	TOTAL	MH/UNIT	TOTAL	U.P.	TOTAL	U.P.	TOTAL	U.P.	TOTAL	
T&M for 2/5/25:	1.0	LS						$ 1,274.52					$ 1,274.52
T&M for 2/6/25:	1.0	LS						$ 849.68					$ 849.68
T&M for 2/7/25:	1.0	LS						$ 849.68					$ 849.68
T&M for 2/21/25:	1.0	LS						$ 1,493.32					$ 1,493.32
T&M for 2/22/25: (PCL Engineer)	1.0	LS						$ 400.00					$ 400.00
EQUIPMENT													
Bobcast E-88 R2 Series	18.0	HR	$ 60.36	$ 1,086.48									$ 1,086.48
Vendor Materials													
Subcontractor													
T&M work performed by Pan Pacific Mechanical: Lump Sum for replacement of existing 6" sewer line	1.0	LS										$ 35,322.11	$ 35,322.11
Materials													
				$ 1,086.48		0.00		$ 4,867.20		$ -		$ 35,322.11	$ 41,275.79
MARKUPS													
EQUIPMENT	20%			$ 217.30									
OTHER ITEMS	5%												
LABOR	25%							$ 1,216.80					
MATERIALS	15%									$ -			
SUBCONTRACTS	5%											$ 1,766.11	
SUBTOTALS WITH MARKUP				$ 1,303.78				$ 6,084.00		$ -		$ 37,088.22	$ 44,475.99

Notes: