

# West Bay Sanitary District

## Recycled Water Project - Bayfront RFP

**Subject:** Addendum No. 3  
**Prepared For:** DB Entities  
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**Reviewed by:** Michael Matson, Woodard & Curran  
**Date:** May 29, 2024



This Addendum becomes a part of the Design-Build Agreement and modifies the original Request for Proposals (RFP) dated April 2024. The DB Entity shall acknowledge receipt of this Addendum by completing Form 1 – Affidavit of Authenticity located in Volume 1, Appendix A of the RFP. Failure to do so may subject DB Proposer to disqualification.

### **Questions from DB Entities:**

*The District provides the following answers to questions submitted by the DB Entities.*

#### **Q1: Can the DB Entity be allowed to use the Freyer and Laurretta survey for the DB design?**

A1: This is allowed, however the use Freyer & Laureta’s survey by the DB Entity shall in no way convey to the District any liability for Freyer & Laureta’s work completed under contract with the District.

#### **Q2: Can the DB Entity know more about the water service and supplemental water requirements**

A2: Supplemental potable water will be required to offset any disruption to recycled water supply. WBSD is coordinating directly with the City of Menlo Park to determine the details of this service. DB Entity may assume the following for its proposal:

- DB Entity will be responsible for design of an 8” diameter extension from the existing 8” water main to the proposed location of the recycled water storage tanks.
- An 8” diameter pipeline shall be extended to the top each storage tank, with a code-compliant air gap discharge above and into each tank, to allow for direct conveyance of potable water to the storage tanks.
- Each tank shall be independently filled utilizing a remote-actuated, modulating valve (motor operated) to initiate flow.
- Operation of the fill valve shall be remote manual by plant operators. A local control panel and remote interface within the plant operations room shall be provided. Valve position shall be monitored and sent to the plant SCADA system, along with valve fail conditions. SCADA programming shall allow for automation of tank fill based on operator selected parameters (fill rate, fill level, fill time).

- A flow meter shall be provided at each tank connection for independent monitoring of flows into the tank, with signals indicated locally and sent to the plant SCADA system. Flows into the tank shall be totaled each time the valve is opened.
- The District will obtain permits for the water connection with the City of Menlo Park, including permitting fees and water meter sizing, and the water meter shall be provided by the District/City to the DB Entity for installation.
- DB Entity shall assume backflow prevention will be required at the meter connection
- DB Entity shall be responsible for design and construction of the backflow device, the potable water pipeline and connections to the meter. Installation of pipelines through the meter, the water meter and backflow devices shall be in accordance with City of Menlo Park details and specifications.
- The District will pursue potable water flows of up to 1 mgd, pending confirmation with the City.

**Q3: How is the internet/communications currently operating at the facility?**

A3: A line of site, over the air, communication signal is transmitted to the facility currently. A new hardwired internet connection will be required for recycled water facility operation, which shall be the responsibility of the DB Entity to obtain and coordinate.

**Q4: Would it be possible for the District's current contractor (Ranger Pipeline) to modify MH 2 on to install a capped 12" outlet one foot below the invert of the 42" pipe, and run the 42" pipe through the manhole (this may require an elbow). DB Entity will cut out the 42" pipe in the manhole after we have connected the 12" pipe to our pump station wet well.**

A4: The District's design engineer will implement this modification to MH 2 design as a change order to the Ranger Pipeline work.

**Q5: The survey file doesn't show a sewer connection to the restroom in Bayfront Park on Marsh Road. Is this restroom sewer, or is it just a vault toilet? If it is sewer, can you please provide the record drawings that show the SS pipeline along Marsh Road?**

A5: The bathroom sewer lateral connection is not documented in as-builts, however it ties directly into the sewer force main that conveys leachate from the park site to the sanitary sewer system. The force main is included in the utility data provided to DB Entities.

**Q6: Section 2.6 of the RFP states that records drawings for the existing 12" RW pipeline along Chilco street are available upon request. Can you please provide those? We're working to finalize the recycled water pump sizing and selection today and we need to know the exiting 12" RW pipe type pressure rating.**

A6: See attached record drawings.

**Q7: Section 3.4.2.12 (1<sup>st</sup> paragraph) has the following requirement for the recycled water distribution pumps:**

*The distribution pumps will require being able to flow using a demand range corresponding to different times of the day. These demands are shown in Table 3.4-5 and will consist of irrigation, cooling towers, and toilet flushes.*

The minimum and maximum recycled water flows shown in Table 3.4--5 (Page 56 of RFP) are as shown below:

*Table 3.4--5: Preliminary Distribution Pump Station Basis of Design*

Parameter	Units	Phase 1 Value	Phase 2 Value
Flows, (min-max) <sup>1</sup>	gpm	138-600	275-1000

However, the hourly recycled water demands shown in Table 3.4-5 (page 57) range from 0.1 to 1.1 mgd for Phase 1, and 0.12 to 1.9 mgd for Phase 2, which are significantly higher and lower than the flows shown in Table 3.4--5. See below for comparison in gpm:

	Phase 1		Phase 2	
	Min	Max	Min	Max
Flow (gpm) From Table 3.4--5 (Basis of Design)	138	600	275	1000
Demand (mgd) From Table 3.4-5 (RW Demand Profile)	0.1	1.1	0.12	1.9
Demand (gpm) From Table 3.4-5 (RW Demand Profile)	69	764	83	1319

Please clarify which flow values we are to assume for the recycled water pumping system design. I would assume that the hourly recycled water demand table 3.4.5 is what we are to design to because we need to meet those demands at all times, which is also how it's described in Section 3.4.2.12.

A7: Design the system to the Table titled 3.4-5: Estimated Recycled Water Demand Profile, which is the hourly demand profile. Per the modification below, note that this table (the second in the RFP numbered 3.4-5) is renumbered to Table 3.4-6.

**Clarifications**

*These following clarifications are intended to supplement the requirements of the RFP where such requirements may not be clear or may be subject to interpretation. Nothing in the clarifications below is intended to lessen or remove obligations assigned to the DB Entity within the RFP.*

1. For all services designated as the DB Entity's responsibility in Element 7 of Volume 3, including but not limited to testing and laboratory testing, the DB Entity shall be fully responsible for the cost of these items.
2. Special inspection will be contracted directly by West Bay Sanitary District. Coordination of special inspection by DB Entity is included on the DB Entity scope.

3. DB Entity shall be fully responsible for the cost of all special monitoring required on the project, including but not limited to environmental, biological monitoring and archeological monitoring. Refer to Element 5 of Volume 3.
4. DB Entity design shall include automation for pumps and valves to automatically control flow and levels of all tanks and basins, including required devices and programming.
5. Include automated control and monitoring of influent pump speed in the event that the headworks cannot maintain flow for any reason.
6. Provide sunshades, overhangs and/or covers for all exterior control cabinets, HMIs, and instrument readouts. Determine if cabinets require heating/cooling for proper long-term operation and, if so, provide.
7. Operation Center shall include no fewer than one 42-inch (minimum) SCADA screen/monitor.

**Changes/Modifications/Additions**

1. In Volume 3: Technical Narrative, Replace Table 3.4-5 with the table below, which removes the flow requirements.

**Table 0-5: Preliminary Distribution Pump Station Basis of Design**

Parameter	Units	Phase 1 Value	Phase 2 Value
Pipe Length (Approximate)	ft	14,500	14,500
Pipe Diameter, (ID)	in	10	10
Delivery Pressure <sup>2</sup>	psi	70	70
Pump Quantity (minimum) <sup>3</sup>	-	2 (1 Duty, 1 Standby)	3 (2 Duty, 1 Standby)
Motor Starter	-	VFD	VFD

~~(1) Flows were estimated using the hourly demands (see Table 3.4-5) and the drawing and filling of the storage tanks. Note not used.~~

(2) A discharge pressure is required so that customers may have a reliable pressure for use in their respective applications, which may include irrigation, cooling tower **make up water**, and toilet **flushing**. This pressure is in addition to discharge pressure required to accommodate distribution system head losses **and represents the required service pressure at the point of connection**.

(3) Pump station configuration shall be optimized by DB Entity. Intent is to size pumps to maximize **operational and electrical** efficiency over the flow range shown.

2. In Volume 3: Technical Narrative, CHANGE Table 3.4-5: Estimated Recycled Water Demand Profile table number to Table 3.4-6 Estimated Recycled Water Demand Profile.

3. Recycled Water Distribution Pipeline Scope

The termination point for the RW pipeline is hereby revised as follows:

- a. The DB Entity's Base Proposal shall assume that the Recycled Water Distribution Pipeline shall extend from the RWTF to the western termination of the existing recycled water pipeline in Chilco Street. Refer to the revised Project Overview figure, attached.
- b. An Additive Pay Item No. 1 is established for the segment of pipeline from the eastern termination of the existing Distribution Pipeline in Chilco Street to the termination in Willow Road. This downstream segment of the pipeline shall not be part of the base proposal and Guaranteed Maximum Price (GMP), however a GMP shall be provided for this Additive Pay Item that shall be the basis of payment for all work associated with designing, permitting, mobilizing, constructing, testing and all other work items required to install this segment of the pipeline as defined within the RFP.
- c. If the District does not direct the DB Entity to construct this portion of the pipeline, no payment shall be made to the DB Entity for the Additive Pay Item No. 1.
- d. Proposal Submittal **Form 7 and Form 8** have been revised (attached) and shall replace the version of the form included with the original RFP. This form now includes Additive Pay Items and delineates the GMP between the Base Proposal scope and the Alternative Pay Items.
- e. This modification does not update the linear footage or pipeline scope description presented throughout the RFP. It shall be understood that any references to the pipeline scope and quantities are modified by inference to reflect the lengths of the Base Proposal pipeline scope and, if directed to proceed by the District, Additive Pay Item No. 1 pipeline scope.

4. Extended Warranties on Major Equipment

- a. The District would prefer to obtain extended warranties on Major Equipment when such warranties are available from the equipment vendor and when the price of such warranties are agreeable to the District. To this end, Additive Pay Items are hereby established to provide extended warranties for major equipment.
- b. Major equipment shall be defined as follows:
  - i. Pumps and motors greater than 5 Hp
  - ii. Blowers
  - iii. Course screening equipment
  - iv. Fine screening equipment
  - v. Mixers
  - vi. Diffusers
  - vii. UV equipment and instrumentation
  - viii. Odor control towers, instrumentation and blowers

- c. For the equipment listed above, the DB Entity shall provide a cost for providing an extended warranty to total no less than 3 years and, preferably 5 years.
  - d. Proposal Submittal Form 7 and Form 8 have been revised (attached) and shall replace the version of this form included with the original RFP. This form now includes Additive Pay Items and delineates the GMP between the Base Proposal scope and the Additive Pay Items.
  - e. As instructed Form 7, provide a separate cost for each piece of equipment to supply the extended warranty. If an extended warranty is not offered by a vendor, indicate so on Bid Form 7.
  - f. No payment shall be made to the DB Entity if the District does not direct the DB Entity in writing to obtain the warranty from the supplier.
5. Service Contracts
- a. The District will consider entering into service contracts with vendors/suppliers of major equipment and analytical devices. To this end, Alternative Pay Items are hereby established to provide service contracts.
  - b. Major equipment and analytical devices shall be defined as follows:
    - i. Pumps and motors greater than 5 Hp
    - ii. Blowers
    - iii. Course screening equipment
    - iv. Fine screening equipment
    - v. Mixers
    - vi. Diffusers
    - vii. UV equipment and instrumentation
    - viii. Odor control towers, instrumentation and blowers
    - ix. All analytical instruments (analyzers, probes, etc)
  - c. For the equipment listed above, the DB Entity shall provide a cost for providing a 5 year service contract, initiating at Substantial Completion. Service contract shall include labor and materials to maintain equipment in good operationing condition throughout the service contract term, including all manufacturer recommended maintenance and repairs.
  - d. Proposal Submittal Form 7 has been revised (attached) and shall replace the version of this form included with the original RFP. This form now includes Alternative Pay Items and delineates the GMP between the Base Proposal scope and the Alternative Pay Items.
  - e. As instructed on the form, provide a separate cost for each piece of equipment to supply the extended warranty.
  - f. No payment shall be made to the DB Entity if the District does not direct the DB Entity in writing to obtain the warranty from the supplier.
6. An allowance for District Directed Testing in the amount of \$25,000 has been added to Form 7, consistent with Element 7 of the Volume 3 of the RFP.
7. DB Entity shall be responsible for implementing and testing programming to automatically generate reports for permit compliance for all permits that are the responsibility of the DB Entity and those that are the responsibility of the District, as defined in the RFP. Permit requirements for District-obtained permits will be provided to the DB Entity when available.

8. Include secondary SCADA workstation in Electrical Room, with the same functionality as the primary SCADA workstation(s). No fewer than one 42-inch (minimum) SCADA screen/monitor shall be included in this Room.
9. DB Entity shall provide a security system for the Recycled Water Treatment Facility (RWTF). This system shall consist of intrusion alarms at all access points and both internal and external cameras. External cameras shall be positioned in such a way that they monitor all improved areas of the RWTF and all doorways and shall allow for identification of license plates and faces in both low light and daylight conditions. Internal cameras shall monitor any space with a door to the exterior and the electrical and operations room. For purposes of its proposal and GMP, DB Entity shall assume up to 24 cameras will be included for the RWTF, in addition to those required at the influent pump station (Section 1.18). Camera feeds will be displayed on monitors within the Operations Room. Remote access to camera feeds (cloud based or otherwise) is required.
10. Corrosion resistant covers or grating (aluminum or stainless steel) shall be provided over all open tanks and basins.
11. Provide for continuous online water quality monitoring to support process operations and regulatory reporting. Real time data will be recorded and archived by the SCADA system.
12. Provide redundant / replacement shelf standby units for instruments required by regulators as defined in the RWTF permits. Should permits require installed redundant units, install as required.
13. Provide all testing equipment (bench testing) needed to calibrate and verify all online instruments.
14. An allowance of \$100,000 for laboratory equipment and operations building furnishing has been added to Form 7. This allowance shall include laboratory equipment, including bench testing equipment, and laboratory furnishings (glassware, containers, instruments) as well as furniture required to outfit offices, common areas, locker rooms and conference rooms within the operations building.
15. Lifting capacity for all lifting equipment shall be suitable for the equipment intended to be lifted, including water weight for submerged equipment. The rated lifting capacity of any crane shall not exceed 3 tons.
16. Two automated access gates shall be provided, with controlled access matching that installed at the District's Recycled Water Facility at Sharon Height Golf and Country Club. The first gate shall be at the location of the existing Bayfront access gate and shall replace

this existing gate access. The second gate shall be at the location for new access as determined by the DB Entity's final design. Both gates shall be 20 feet wide.

17. Landscaping will include 12 trees as part of the landscape plan. Location and species approved by the City of Menlo Park approved species will be determined during final design. Trees may be located off-site along Marsh Road frontage.
18. Provide signage at plant entry to approximately match that in place at the District's offices at 500 Laurel Street and light for night-time visibility.



8. Provisions for solar power shall be limited to the RWTF (e.g. not including the influent pump station). Any solar power system to be installed will be future (by others), however the DB Entity shall make provisions for future solar power with the following:
  - a. Install appropriate conduit and disconnect boxes to serve either the District's Pond 2 or to the area east of the Project Work Area, bringing such conduit to the electrical room and maintaining sufficient open wall space within the electrical room to facilitate installation of future solar connections. District shall determine which location will be designated for a future solar power system, and DB Entity's GMP shall include all costs for whichever is selected (not both).
  - b. Building and canopy roofs shall be designed to support future solar panel loading, but no other provisions are required within the scope of design or construction.
9. DB Entity shall be responsible for conducting a transient (surge) analysis for all force mains (recycled water distribution, waste pipeline). For the recycled water distribution pipeline, District will provide assumed demand locations for the 0.6 mgd and 1.0 mgd demand scenarios and pipeline materials and record drawings for existing pipelines. Transient analysis will consider the entire length of the distribution pipeline, including existing and segments designed by others. DB Entity's final design, construction scope and GMP for all force mains shall include appropriate surge mitigation measures to accommodate pump start up, power failure and equipment failure without damage to equipment of the pipelines. Analysis shall be prepared by a California-licensed Professional Engineer.



**Attachments**

- Chilco Street RW pipeline As-Built Drawings
- Project Overview (Revised)
- Proposal Form 7 (Revised)
- Proposal Form 8 (Revised)