



CITY OF PETALUMA

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Teresa Barrett
Mayor

January 5, 2023

D'Lynda Fischer
Mike Healy
Gabe Kearney
Dave King
Kevin McDonnell
Kathy Miller
Councilmembers

Re: ADDENDUM NO. 1 REQUEST FOR PROPOSALS (RFP) FOR ENGINEERING AND DESIGN SERVICES FOR THE ELLIS CREEK WATER RECYCLING FACILITY CHEMICAL UPGRADES PROJECT.

QUESTIONS AND ANSWERS FROM SITE VISIT

1. Is there a schedule for Phase 2 of the project?
 - a. No hard date has been set for completion of construction for phase 2
2. Is the fee proposal sheet outside of 15 page limit or inside it?
 - a. The fee proposal is outside this page limit
3. Has sea level rise been assessed in the main chemical processing area / what year is it predicted to be vulnerable to sea level rise?
 - a. The current models show Sea Level Rise (SLR) flooding the main chemical processing area in more extreme scenarios, but this modeling was not specifically done for the main chemical processing area. Additionally, the [Our Coast Our Future Hazard Map](#) shows that this area could experience flooding at lower levels of SLR when storms occur. From the City's Local Hazard Mitigation Plan maps and FEMA's sea level rise viewer, it appears that flooding will occur between 6 and 7 feet, but this does not include storm surges.
 - b. Petaluma's General Plan Update also addresses SLR in the City of Petaluma, see this [White Paper: SLR and Climate Change](#).
4. Will the selected consultant be required to assess sea-level rise or use existing climate models?
 - a. The selected consultant can use existing climate models as long as they adequately address the concerns with SLR.
5. How is the flooding in general around the main chemical processing area?
 - a. Modeling shows flooding in a doomsday type situation – max scenarios for sea level rise during high tides.
6. How often is operations in the bisulfite building?
 - a. Not very often
7. How can the Hypochlorite tanks be removed from inside the Hypochlorite room?

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- a. The tanks were put into the room in a specific order, so they will need to be removed in a specific order too. They can be removed through the roll-up door in the hypochlorite room.
8. Are the pumps in the Hypochlorite room just for the Concrete Contact Basin (CCB)?
 - a. Yes, these pumps are just for the CCB.
9. Where does the electrical supply come from in the Hypo/Bisulfite rooms?
 - a. Electricity comes through the MCCs in the ponds office and the main supply is off the substation on Lakeville Highway.
10. How much Hypo is typically used?
 - a. A load per week, which is about 5,000 gallons.
 - b. 600-700 gallons of Hypo per day
11. Is it ok to relocate the pumps closer to the tanks?
 - a. Pumps closer to the bisulfite tanks are ok, and since the building is being redesigned and everything else, relocation of the pumps is fine. Same for hypochlorite
12. Are there any issues currently with the pumps?
 - a. Not really
13. Are there electrical diagrams for MCCs in the ponds office?
 - a. There are diagrams for two cabinets, and the others are too difficult to figure out
14. Is more space desired in the Ponds office?
 - a. We would like to clean it up and have more terminals (desk areas)
 - b. The fish bioassay room in the ponds office has some extra space
15. Is ArcSine still doing SCADA programming for the City?
 - a. Yes, they've done all the recent SCADA programming
16. Would the new SCADA need to be tied into the existing system?
 - a. Want most equipment to be operable remotely; keeping equipment telemetry is desired
17. How often do you use CCB?
 - a. Last used about 3 years ago; we don't like to have to monitor chlorine residual and typically use the polishing wetlands
18. What does the Standby generator need to power?
 - a. Standby generator has to power MCC / instruments through MCC in the Ponds office
19. Will the CCB be used in the future?
 - a. Don't foresee increasing wet weather design flows but CCB needs to be kept functional for use
20. What is the manhole for at the proposed location for the new Hypo tanks?
 - a. Manhole is for 12kV power
 - b. The switchgear/generator at main plant powers WEPs.
21. How many hypochlorite tanks are needed at the new site?
 - a. We want 3 hypo tanks at the WEPs site and secondary containment – these will drain into Pond 10
22. How much hypochlorite is used at WEPs?
 - a. 600-700 gallons per day

23. Does it get hot in the MCC building at the main processing area?
 - a. 105-107 degrees
24. How often is maintenance needed at WEPS?
 - a. Every 5 years
25. What is the current truck route for chemical deliveries?
 - a. Chemical deliveries are currently delivered via paved road off Lakeville. The new road is needed for one truck to access the new hypochlorite system next to WEPS. The new road will not have to connect WEPS and main chemical processing area.
26. Required size for the 3W line required at WEPS?
 - a. 2-inch pipe size around 100psi rated
27. Do we have drawings for the MCCs at WEPS? To determine how much room is in there
 - a. Yes; and they can be provided upon request. Please email Kristin at karnold@cityofpetaluma.org
28. Where is the Electrical supply for WEPS coming from?
 - a. Power for the WEPS MCC room is coming from the main plant. The power for the ponds office is off Lakeville substation.
29. How much bisulfite is being used?
 - a. The bisulfite system runs 5 months out of year due to prohibition of discharge. During the 5 months we use about 25,000 gallons.
30. What is peak SBS dose?
 - a. Around 600 gallons per day
31. Has the CCB been used?
 - a. Was last used 3 years ago
32. Is there Geotech information for the roads around the oxidation ponds?
 - a. There may be existing drawings from various projects, but an upcoming project will perform a Geotechnical analysis on these roads. We will be able to share this Geotech information once it's completed.
33. What is the pond number in front of WEPS?
 - a. Pond 9
34. Existing plans for Booster PS 1?
 - a. Yes; and they can be provided upon request. Please email Kristin at karnold@cityofpetaluma.org

If any further information is required, please contact me at karnold@cityofpetaluma.org or (707) 780-7892. Your interest in this project is greatly appreciated.

Sincerely,

Kristin Arnold

Kristin Arnold, P.E.
Senior Civil Engineer