

Santa Margarita Water Treatment Facility

CM Jobwalk

July 23, 2019

Attendees:

Sam Hawkins Carollo
Glenn Vita MWH
Melanie Carrido Psomas

Agenda topics are noted in normal font, additional topics discussed at the meeting are in italics.

Timing

Proposals will be due by **7am** on Thursday August 1, 2019.

Board award August 19

Construction contract award September 16 or October 21

If awarded in October that will shift construction completion out one month. Cal Am needs disinfection ability from this facility by 6/1/2020. Plan to bid the entire scope to one contractor who then hires subs for various trades. MPE typically bids. Thayer built the building when that was bid stand alone, and was sub to MPE for the other.

Facility

Aquifer Storage and Recovery

3 modes or seasons Injection (as early as 12/1 to as late as 5/31 depending on flow in the Carmel River), Storage after Injection up to 2 months depending on DBP testing results, Production after storage up until Injection. Production season is limited to be no earlier than the disinfection byproducts have dissipated after injection and storage season. They historically use ASR for production during periods of high demand or when other wells are down; Pure Water Monterey increases the need to use ASR for production.

Backflush monthly during Storage and Production, weekly during Injection

Santa Margarita and Middle School facilities and how they are tied in.

Backflush from Middle School discharge at Santa Margarita. Future discharge from 2 wells to be drilled as a part of Desal.

Injection flows past/through Santa Margarita to Middle School.

Production from Middle School not allowed (because no water treatment)

The need for a water treatment facility to handle both sites.

The transition of 30" pipe in General Jim Moore to 16" pipe in the existing facility is unknown. Somewhere between the street and where we see the 16" above ground (or under ground).

Operations will be ongoing through construction.

Project Organization

Monterey Peninsula Water Management District owns the facility. Operates facility in injection season. Operator to collect samples and for backflushing.

California American water operates the facility in storage and production season and maintains the system.

We are pre-purchaseing Chemical injection pump skids.

Cal Am is responsible for all SCADA and it is outside our scope. We will pull wires into a cabinet, and that's the end of our obligation.

Cal Am will review RFIs and submittals as appropriate. As they are the operator and provide maintenance, there are likely many reviews for them. Their senior management is committed to getting this project done on-time and will commit resources

UPDATE: they have hired a liason specifically for this project to help with reviews. He is a retired PE who provides partial CM services for many Cal Am and ASR projects.

MPWMD is fully funding the project, no state or federal funds will be used.

Project

Water treatment at Santa Margarita will treat water from both sites.

No engineers estimate yet.

MPWMD constructing for Cal Am to operate.

LD will be tied to disinfection schedule (CRITICAL); stabilization is optional to our knowledge.

Piping tie in to minimize downtime (CRITICAL). Sidewalks, encroachment.

Building, need building official function as we are not pulling local building permits.

Exterior injection manifold

Truck unloading pad, road, gates

SCADA by Cal Am

Permits and stuff

MPWMD has easement from Army for a portion of the facility; a letter to construct and operate for the remainder of the facility. FOR A owns the land, it will be deeded to Seaside. GJMB has not been recorded by the City. Former munitions range.

Earth disturbing trades need to take on-line Unexploded Ordnance training which is a 30 minute on-line course with a test and certificate (kind of). CM responsibility is to remind them they need training and verify they trained.

UPDATE: CM will need training too.

Soil cannot be exported from site. We are running out of locations to put the soil, it has to stay in the Munitions Response Area.

UPDATE: Designer updated plans for two small berms on either side of the new building; we may instruct contractor to add to the top of the pile at the back of the property.

MMRP – no biologist required unless clearing, clearing is not planned. Invasive species, nighttime construction. Vibration. Outreach

SWPPP – currently under 1 acre, no soil stockpile out of construction area and no storage out of construction area.

SWCP – site erodes, including newly expanded basin. Berms, swales, rolls will need to be tightly managed and re-managed as they are destroyed by construction vehicle traffic.

ROE – munitions training, earth stays on MRA. Soil management is difficult, we have excess and are not sure where it will go.

Digging and excavation on the former fort ord (grading)

Encroachment

Cal Am handles water works checks to our knowledge. Site security must be maintained.

UPDATE: contractor will perform disinfection and BacT testing per Cal Am request. Cal Am may pull the samples and have them analyzed. I'll include full testing scope in Contractor scope.

Geotech –

Pacific Crest is the geotech for the design. They will be under contract with designer for the ESDC portion. CM will need a geotech for material testing.

Trailer/facilities –

CM Work

Neighborhood outreach, vibration complaints

Ability to provide coverage over the duration of the project.

Design turnaround was fast with scope changes, expect numerous RFI/submittals/CCO

Advisor on critical minimization of interrupted operations and schedule for disinfection completion.

Ability to provide all required inspection services

Microsoft software, shared drive location

Questions

No engineers estimate yet; hoping construction contract is under \$2M, SWAG 1.2-1.7M realizing that bids are coming in high. Will send estimate as soon as I receive it.

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