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# Observation Report

385687.F1.01

PROJECT NO. \_\_\_\_\_

(1) DAY: Tuesday DATE: 4/23/2013 WORK PERIOD: 8 am <sup>a.m.</sup> TO 12:00 am <sup>a.m.</sup> REPORT NO. 2 <sup>p.m.</sup>

WEATHER: Overcast, light breeze TEMP. MAX 64 °F: MIN \_\_\_\_\_ °F: PRECIPITATION: none

(2) NUMBER AND CLASS OF CONTRACTOR PERSONNEL OBSERVED ON SITE:

Excell- 5 workers

ICS- 5 workers (HDPE) Yarissa Martinez- EPA Region 9

Site Supervisor- Kevin Thomas AECOM Brian Dean- AECOM PM

Site Wind Monitor -Patrick Vandenberg Trei Chatman- de maximus  
(air)

(3) MAJOR EQUIPMENT ON PROJECT

No.	Description	Size/Capacity	In Use Y/N
1	CAT 950 Front-end Loader		Y
2	Backhoe	medium	Y
2	Fork Lifts		Y
2	Water Truck		Y
	ICS Truck for butt-fusion and 2-3 additional pickups		Y
2	Dump Trucks, also an excavator not in use		Y

(4) Observations:

A) Work Activities In Progress:

- The ICS crew was working on pipe installation; primarily HDPE butt fusion welding of branch pipe to onsite E-W pipeline;
- Conducted pipe pressure test on four pipes: 1) interior 4" pipe of double contained extraction well pipeline, 2) main 8-inch injection piping that heads N and W from treatment site, 3) 4-inch pipeline, and 4) the outer annulus of 8-inch containment pipe around the 4-inch extraction pipe (see item 1) above;
- One worker was placing conduit for EW-1 and EW-5 onsite. The other crew was excavating the plant site beneath future treatment system pads. A fencing breach and wind screen were being repaired on the N end of site;

B) Issues concerning conformance to specifications and/or design:

- The pressure test was successful on all four pipes that were tested. The three water conveyance pipes were tested at 100 psi for one hour. The outer shell of the 4-inch extraction pipe (the 8 inch annular containment pipe) was tested at 10 psi for two hours.
- It was noted in construction weekly report No. 5 that the pipe in the trench depth is 4 feet, 2 inches whereas the pipe connection in the vault is 5 ft 6 inches below grade. Consequently for EW-1 and EW-5, on-site, double 45 degree bends were added outside each vault to run the pipeline into the vault. Construction Manager Kevin and I discussed the idea that the piping inside of the vault could be raised from 24-inches above finished floor (AFF) to about 36-inches AFF which would make this issue mostly go away (discrepancy on paper would only be 4 inches) if future vaults could be ordered with the pipe vault penetration at this higher pipeline elevation. Kevin plans to issue a Request for Information (RFI) for the change. I suggested that the change concept be reviewed by Geosyntec, the design engineer of record.
- I noted excellent detail where pipes penetrate vaults through a special "cast in the wall rubber shoe" which gets a stainless steel clamp around each penetration.

C) Issues concerning conformance to construction schedule; None-- this is very early on the project. The Contractor representatives noted, however, that "most afternoons" a stiff breeze would arise blowing from west (offshore) to the east. This could prove troublesome on a daily basis. To compensate, they begin work at 6:30 a.m. fortunately on the plant site there are no residences close by. They quit at about 3 p.m.

D) Work activities scheduled for next week; Continue welding the HDPE mains for the main trench; continue the excavation

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under the plant site (progress may slow down if they run out of space for dirt piles); they will screen and backfill some of the excavated material which must meet a 2-1/2-inch minus specification for backfill.

E) Communications and discussion with PRP site representative: Kevin noted that a break-in (attempted vandalism or theft) occurred and associated damage to the security fence was being repaired. Since he expects more of this to occur when more materials and equipment reach the site, they may have security guard on site during off-hours.

F) Photographs; Took photos around the site (see Attachment)

(5)

Robert L. Carley, PE (Conveyance), CH2M HILL (for EPA)

April 23, 2013

SIGNATURE/TITLE

DATE