

Owner: CITY OF GLENWOOD SPRINGS
Contractor: MOLTZ CONSTRUCTION, INC.
Engineer: SCHMUESER GORDON MEYER, INC.

SEPTEMBER 2010 PROGRESS REPORT

Another month with good progress. The changing colors on the mountains stress the importance of continuing the hard work. Foundation related work, piles installation and cement treated soils, are complete. Installation of pipe under structures and crossing the railroad has been essential to keep other items “on track” so to speak and steadily continues. Progress on the concrete structures has been quick and those that visit the site once a week comment on the amount of change since their last visit. Another big component of the project, masonry construction, began in the second half of the month. Items behind the scenes such as submittal reviews and equipment approvals are ongoing and are now over the critical hump.



August 24



September 24

Photos above show one month progression of the Oxidation Ditches. To help understand the amount of work completed, the Oxidation Ditch walls are 21-feet tall and 20-inches thick.

Total concrete placed on the project to date is just over 3400 cubic yards. This quantity is equal to constructing a concrete slab one(1) foot thick covering the full width of a football field and equal to the length of two(2) football fields.



STATUS BY STRUCTURE

HEADWORKS BUILDING

Overall dimensions of building(in feet): 90L x 40W

Concrete Placed To Date: 470 cubic yards



September 1



September 24

Work completed or ongoing in the Headworks Building include: Concrete work in the force main capture box, the influent channel, bypass channel, grit removal chamber, effluent channel, and effluent splitter box. Footings and bearing walls are complete as is the south retaining wall. For backfill and grading, outside soils are roughly near finish grade around the building and the interior soil is at bottom of the main slab grade. Underslab plumbing and electrical conduit is ongoing.

BIOSOLIDS/DIGESTERS BUILDING

Overall dimensions of main portion of building(in feet): 171L x 54W, with additional attached rooms beyond.

Concrete Placed To Date: 1170 cubic yards

Work completed here includes the lower and upper slabs in the BioSolids(Pump) rooms, the full slab in the Digester Tanks, all concrete walls in the Digester, Centrate, and Supernatant Tanks and in the BioSolids lower pump room. Work on the concrete walkways over the digester tanks has begun and the first



Masonry work began September 22

concrete placement for these walkways is scheduled for the first week in October. Masonry work began later in the month. Starting on the south wall of the Digesters, the mason plans to continue around the east side of the building and on to the north. They will then move to the BioSolids rooms. Tank water testing is ongoing and will continue on the Digesters until completed later this year. Cement treated soil up to the mechanical room slab and the truck bay was completed this month and is now finished for the project. Footings and stem walls for these sections are complete with electrical conduit installation and plumbing commencing.



Concrete Placements - Digester Tanks to Left; Oxidation Ditches to Right



OXIDATION DITCHES

Overall dimensions of tanks(in feet): 173L x 145W

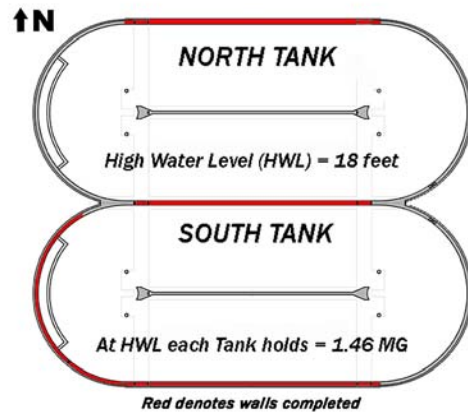
Concrete Placed To Date: 1780 cubic yards

Martinez Western is constructing the concrete portion of the Oxidation Ditches. Currently, the north, south, and center(common) walls are complete. At each end of each tank, there will be half circle walls completing the tanks and currently the half circle at the west end of the south tank is complete.

Although these structures are not complicated compared to other buildings, they are large. The walls are 21 feet in height and when full, each tank will hold approx. 1.5 million gallons.



For each tank this is 36% more than the large pool at the Hot Springs Pool.



SECONDARY CLARIFIERS

Dimensions (2 tanks) each 55 foot diameters by 18.75 feet tall

Pipe installation under the Clarifiers is now complete and the contractor has started placing forms for the structure slabs. There are two clarifier tanks in the design and when complete, together they will hold another half million gallons. Flows from the Oxidation Ditches will enter the Clarifiers to begin the next step of processing.



YARD PIPE Effluent Pipe

All flows that have completed the various processing stages for removal or breakdown of solids will pass through the UV disinfection stage and then out through a 24-inch diameter pipe to the river. Moltz has completed pipe installation from the river back to the south side of the Union Pacific railroad. This included installation of a 48 inch steel casing in a bore under the tracks.

Because of rock and cobbles in the lower few feet of the trench, Brannan Construction (the boring contractor) hand tunneled 120 linear feet under the tracks as they advanced the casing pipe to complete the bore.

OTHER PHOTOS



Clarifier Influent Pipe Encasement



Erecting Scaffold - Digesters Masonry



Underslab Piping at RAS Building



Preparation for Clarifier Slab - South O-Ditch Behind