

Roxsand

Aggregate Sampling and Testing

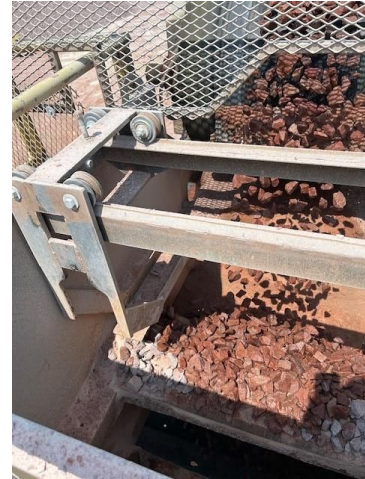
Written by Scott Rentz, Plant Manager



The old sampling platforms previously used.



The improved method for the 1" rock.



Newly constructed sampling platform for the ballast rock.

The term "in-spec" refers to a specific gradation a product needs to meet for any customer. Depending on the amount produced of a product, gradations can be sampled up to 3 times daily. In order to obtain samples of aggregates, a technician has to be able to pull a sample out of the live stream and collect the correct amount to begin the testing process.

The old process for collecting samples was the Iron Man method. The technician would have a sampler in hand and try to collect a sample by holding the sampler firmly and swinging it through the stream of material, hoping not to drop it on the belt, but still getting all of the material off of the belt needed for the gradation.

At Dells West, we used various departments internally to greatly improve the sampling location. This made them not only safe for the tech to reach the sampling point for each product, but also safer for them to be able to carry the sample bucket back down to their truck.

On two of the sampling areas, an entirely new walkway was constructed that did not exist before. The advantage of a new location was that no matter what material was being produced or which side of the field conveyors the material was sent to, the samples could be taken at the same location. All of the new construction and existing materials were utilized on site from our storage yard. This way any changes that needed to be made were done on site and did not need to be fabricated at another location.

The third location already had a cat-walk around the sampling location. We added a motion swing with a tray for the sample to sit in. The tech only has to swipe the stream of material for the sample and empty the collector into the bucket. This is done as many times as required to obtain the correct sample.


Another advantage to developing new sampling locations is that the techs are not exposed to the possibility of the stacker conveyor moving while they are in the process of sample collection. We still require the techs to check in with the tower operator before taking the samples to assure the plant is running at the maximum tonnage, to make sure the materials are in-spec, and also for SAFETY.

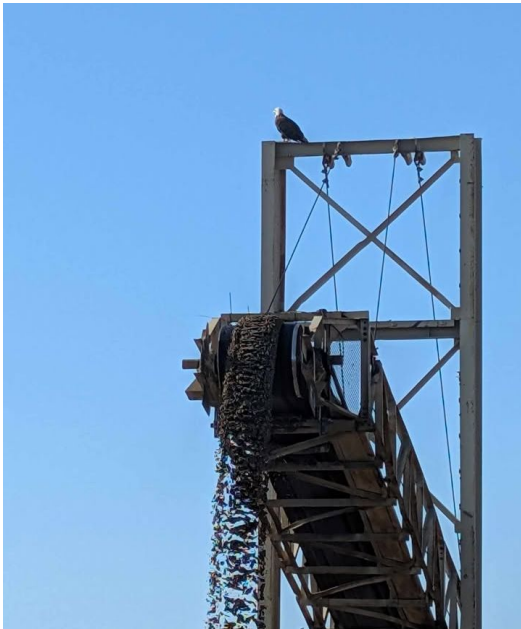
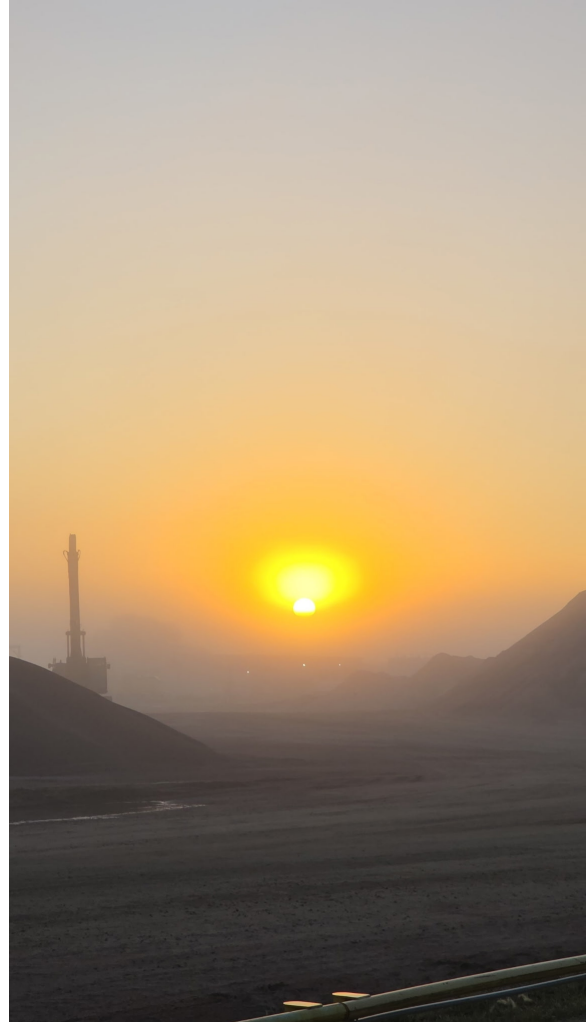
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Birthdays This Week

Reed Schade - Sioux Falls
Justin Moe - East Sioux Quarry
Andy Blanco - Ace Ready Mix
Hayden Dwire - Ace Ready Mix
Travis Haag - D & I Mechanical
Eli Orr - Myrl & Roy's
Tim Smith - D & I Railroad
Mark Bunkers - Dell Rapids West
Beverly Nelson -Myrl & Roy's
Todd Brannan - Myrl & Roy's
William Dreyer - Myrl & Roy's
Tim Martin - Sioux Falls
Terry Schildhauer - Dell Rapids West
Francis West - Myrl & Roy's
Bob Hoffman - Dell Rapids East
Christopher Kelley - Myrl & Roy's

Milestone Anniveraries

Randy Haak - Jasper
Brandon Woad - East  Sioux Quarry



Top Right: Dell Rapids Morning from Shari Hauglid

Bottom Right: Early Morning in Akron from Paul Klemme

Left: Eagle "Bob" in Brookings from Tyler Tebben

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