



# COEUR WHARF

CASE STUDY

[polydeck.com](http://polydeck.com)

*\* image shows Competitor wire that caused increased downtime due to wear life issues*



# CHALLENGE

Freezing temperatures and conditions caused Coeur Wharf to experience heaving blinding and plugging issues. In addition, oversize issues and cross member buildup underneath screen panels were also adding inefficiencies. In an effort to remedy the situation, competitor screen panels were installed to increase tonnage, but as a result, Couer Wharf lost efficiency as the screen panels did not allow the right gradations to pass. This negatively affected their overall gold recovery. In addition, competitor wire screen panels were also installed, but the wear life was significantly shorter than the polyurethane panels resulting in increased downtime for panel changeouts and maintenance.



*\*image shows severe blinding with competitor panels*



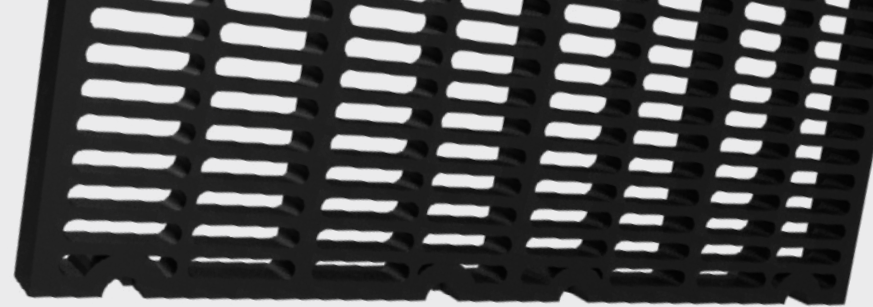


## SOLUTION

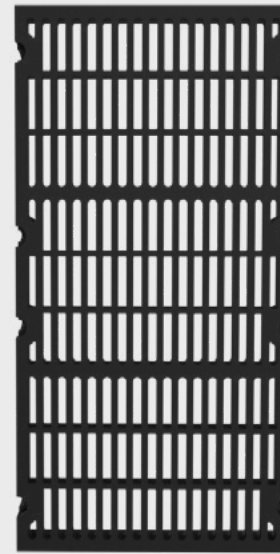
- Polydeck recommended a combination of Dmax and Maxi panels to optimize efficiency and wear life to address throughput issues.
- Panel styles on the discharge end of the screens were adjusted to ensure gradation was met.
- The material used in these panels specifically addressed blinding and plugging issues.
- Screen structure optimization utilizing custom PipeTop stringers and custom round cross members.

### DID YOU KNOW?

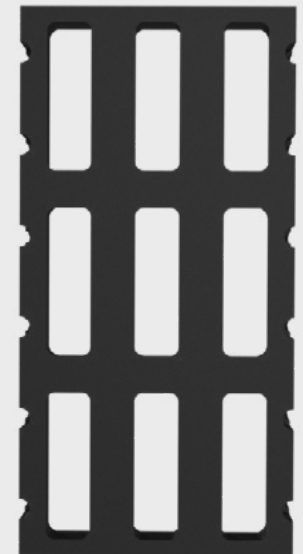
DMax panels are Polydeck's latest innovative solutions that help producers increase efficiency. With open areas starting at 50%+ DMax panels are the perfect solution for operations seeking more throughput.



*\*image shows DMax panel used on the upper half of the secondary deck*



*\*image shows Maxi panel used on discharge end of tertiary decks and feed end of 1 tertiary deck*



*\*image shows panel used on the lower half of the secondary deck*

*\*image shows Polydeck panels resisting blinding.*





# RESULTS

**6/22/20**

Polydeck Implementation:  
added 3 rows of 9.5 mm screens to  
the discharge end of 2 tertiary decks

**9/14/20**

installed 2 rows of 9.5 mm on  
the feed end of 1 tertiary deck

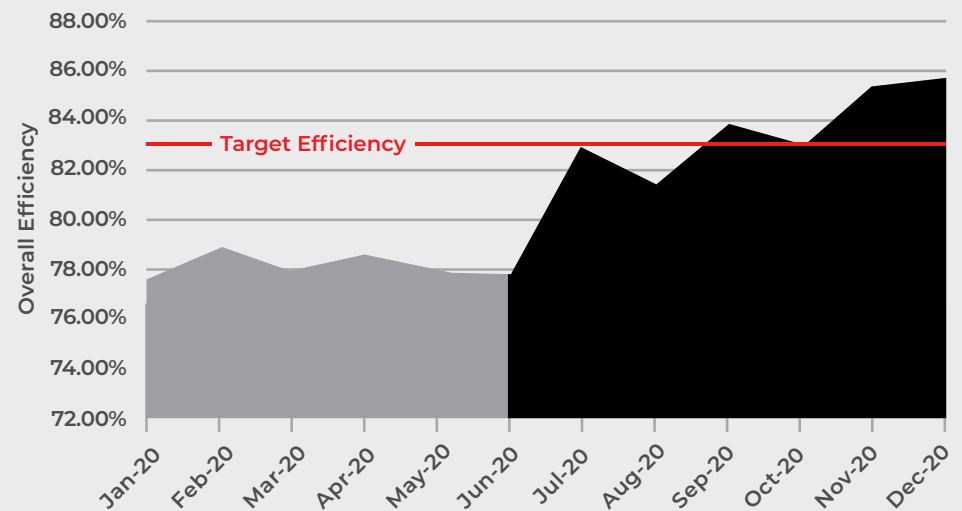
**10/13/20**

Added  $\frac{3}{4}$ " Dmax to the upper half of the  
secondary deck and standard  $\frac{1}{2}$ " panel  
to the lower half of deck

**11/18/20**

Installed combination of  
DMax and Maxi panels

**P<sub>80</sub>=1/2" Throughput**



- Blinding on the screen decks greatly decreased
- Tonnage and throughput increased
- Wear life of screen panels exceeded wear life of wire screens
- Minimized employee maintenance time
- Met target efficiency
- No buildup on cross members



---

## BONUS RESULTS

Polydeck recommended moving to a block change-out schedule to alleviate costly downtime and maintenance issues. Coeur Wharf now forecasts the changeout of the panels which allows for better planning and scheduling. Changeouts happen prior to failure, allowing Coeur Wharf to maintain their efficiency targets.

“

Having Polydeck’s knowledge of screening media has been instrumental in helping us meet our gradation targets and as a bonus, we actually have more than the desired passing percentage.

---

**Hugh Weyer**  
Foreman at Coeur Wharf

