

## DERAGGER TRIAL REPORT

Summary Points - October 2018

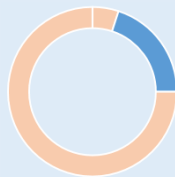
Over-whelming evidence from pilot sites that DERAGGER® kept station wells clean, without the need for manual lifting and cleaning..



## DERAGGER® GENERATED PUMP EFFICIENCIES:

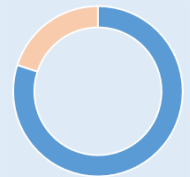
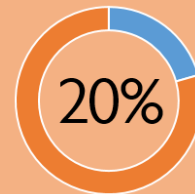
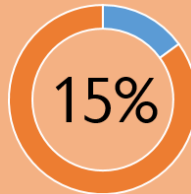
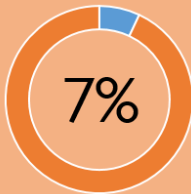
Compared to pumps being regularly  
lifted / cleaned:

5% to 20.6%



Compared to pumps NOT being  
lifted / cleaned:

Up to 80%

DERAGGER® ENERGY SAVINGS ON THREE PILOT SITES  
NOT CONSIDERED TO SUFFER FROM RAGGING:

## RUN TIMES REDUCTION (one site example):

924 mins

with no lift & cleans



167 mins

with DERAGGER activated

EXISTING USER QUOTES  
(270 SITES COMBINED HISTORY):

*"100% reduction in blockages. 10% to  
15% energy reduction"*

*"At least 90% reduction in blockages"*  
*"Dramatic reductions"*

## REPORT FURTHER CONCLUDED:

- Substantial inefficiencies exist in waste water network as a result of pumps running in a ragged condition **which the DERAGGER® could resolve.**
- These pumps do not always trip or raise an alarm, resulting in these inefficiencies not being addressed. **If installed, the DERAGGER® can achieve energy savings in these instances.**
- There is **no evidence that the DERAGGER® reversal process damages pumps.**
- By addressing the inefficiencies that exist due to ragging, **it is highly likely that extensions in asset life will be achieved in proportion to the efficiencies gained in pump run times and energy consumption.**