

Dawn Bartel

From: Brian Helminger <brian.helminger@hvmsd.org>
Sent: Wednesday, June 30, 2021 3:11 PM
To: bruce siebers; Dave Casper; John Sundelius; kcoffey238@gmail.com; Pat Hennessey
Cc: Dawn Bartel
Subject: FW: Crane Engineering "Oystra" success in Africa
Attachments: Oystra running at night.jpg; The MONEY SHOT - Before and after treatment.jpg; IMG_7508.JPG; Lion Tamer.jpg; Camel Ride.jpg

Commissioners:

I wanted to pass along an update and some good news from the folks at Crane Engineering.

Brian Helminger

District Director

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From: Mark Hassman <M.Hassman@craneengineering.net>
Sent: Wednesday, June 30, 2021 3:02 PM
To: Andrew Dow (adow@donohue-associates.com) <adow@donohue-associates.com>; 'mgerbitz@donohue-associates.com' <mgerbitz@donohue-associates.com>; ncook@donohue-associates.com; Arabi, Sara <Sara.Arab@hdrinc.com>; Terry Kottwitz <franandtk@msn.com>; 'Paul George' <Paulgeorge2@earthlink.net>; Wills, Jeff <jwills@donohue-associates.com>; Brian Helminger <brian.helminger@hvmsd.org>; Kevin Skogman <kevin.skogman@hvmsd.org>; Dawn Bartel <dawn.bartel@hvmsd.org>; Jon Shaw <jonshawandassociates@gmail.com>; Francis de los Reyes III <fldelosr@ncsu.edu>; Vivian George <Vsgeorge@earthlink.net>; 'Ralph Chestine' <thechestines@comcast.net>; Jeff Farnsworth <jefffarnsworth77@gmail.com>; Amanda Kordus <AKordus@Badgerlabs.com>; Brenda Benbrooks <BBenbrooks@Badgerlabs.com>; Dan Clarahan (dan.clarahan@gmail.com) <dan.clarahan@gmail.com>; 'lewis.pain@membranespecialists.com' <lewis.pain@membranespecialists.com>; Jenelle Van Eynde <jenelle@triangle-environmental.com>; Tate Rogers <tate@triangle-environmental.com>; Aaron Forbis-Stokes <aaron@triangle-environmental.com>; Sarah Hennessey <sarah@triangle-environmental.com>; Nicola Greene <nicola.greene@triehi.com>; Lorenzo Pisan <lpisan@oshkoshcorp.com>; tquigley@oshkoshcorp.com; 'lewis.pain@membranespecialists.com' <lewis.pain@membranespecialists.com>; Schenkenberger, Ken <KSchenkenberger@covanta.com>; Biggar, Jacob (JBiggar@covanta.com) <JBiggar@covanta.com>; Tom Gurski <tom@carbyne-enterprises.com>; Jensen, Stephen C. <SCJensen@dkattorneys.com>; Kristin L. Martinez <klmartinez@ra.rockwell.com>; Kevin A. DeWitt <kadewitt@ra.rockwell.com>; Jason Baab <jbaab@oshkoshcorp.com>; James Minue <jrminue@ra.rockwell.com>; Joseph B. Haas <jbhaas@ra.rockwell.com>; Dan Tibbetts <djtibbetts@ra.rockwell.com>; Christensen, Kristy

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Subject: Crane Engineering "Oystra" success in Africa

Good afternoon everyone,

After a significant delay getting Oystra® through Senegalese customs we were able to complete the Oystra testing in Dakar, Senegal! Oystra loves the warm septage and ran better than it ever has! We ran 58 hours with 99+% uptime once we got a good generator. We were consistently near the target of 3 liters/second with great MF recovery. The RO system was a bit challenging in maintaining its recovery but we have a few ideas. Our longest planned run was over 12 hours. The new cleaning system worked great and made our cleaning more consistent, safer and quicker!

The effluent meets the foundation requirements based on our testing to date in Senegal and the USA!

We will present our findings to the foundation in a month to determine the next steps. I've attached a few pictures for your enjoyment!

Thank you for your dedication and support as we achieve this important milestone together!

Warmest regards,

Mark Hassman

Program Director

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