Fratello & Amico, Inc.

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May 16, 2025

Ms. Julie Pape
Project Coordinator
Tidewater, Inc.
6625 Selnick Drive, Ste A
Elkridge, MD 21075

RE: WV010, Report of Oil Water Separator Cleaning and Preventative Maintenance Inspection, Clarksburg USARC/OMS, Rt 2, Box 77, Bridgeport, WV 26330

Dear Ms. Pape,

We are pleased to submit the following report regarding services performed at the above facility.

Background and Investigation: We originally visited this facility's OMS on Friday, March 1, 2013, and opened and inspected the grit/sand interceptor and the oil-water separator. Both units contain various levels of oil, along with bottom sludge – the primary chamber of the sand interceptor contained 17" of heavy sludge.

In addition, we found that many of the bolts in the three manhole covers were not flush with the covers even though they were tightened completely.

We proposed to filter and dewater all sections of the OWS system and containerize the oily sludge in steel 55-gallon DOT 17-H drums for future disposal via DRMO.

On Tuesday, March 26, 2013, we arrived at the center to clean the interceptor and separator and secure the covers. The units were dewatered using a filtered pump, sludge was evacuated from the chambers and placed into DOT 17-H steel 55-gallon drums for future disposal via DRMO. After cleaning, we refilled the units in reverse order, OWS first, sand interceptors last, and then verified flow.

The twelve manhole cover bolt holes were examined and we found that only five of the twelve were able to be penetrated to the required depth due to blockage from rock, gravel and sand in the hole. We first drilled out the debris using a series of carbide bits until the bulk of the debris was removed. Next, we used a hand tap and retraced the threads to the required depth. The holes were washed out and the fasteners installed. Two of the holes required another round of the restoration service, before usable.

The three drums of oily waste were placed on a skid and marked to identify the contents, the work area was cleaned and the project was demobilized.

In August 2016, facility personnel reported that they GI/OWS was full and backing up. The Grit/Sand/Oil Water Seperator/Interceptor was opened and oil and sludge levels inspected on Friday, August 19, 2016 to gauge oil and sediment level. The GI/OWS appeared in good shape, but the system was not serviced or its operation evaluated.

On September 1st, facility personnel again reported the system full, and backing up, and provided photographs of the cleanout overflowing with water.

This system is a Grit Interceptor/Oil Water Separator which is fed by a series of eight trench drains throughout the OWS, connected via 296 feet of 4" pipe, with just four clean outs.

We subsequently submitted a proposal to clean and investigate the entire system.

On Friday, September 16, 2016, we mobilized a crew to investigate the reports of the overflowing of water from a drain cleanout in the wash bay.

All of the floor drains were opened, dye traced and flow tested. The Northwest drains were traced with blue dye, the Northeast with red dye. The roof leaders were traced with yellow dye.

The entire drainage system was found to be operating in perfect shape, yet the issue of the standing water at the cleanout remained. The floor has a number of cracks in the area of the clean-out, which could be the source of water in the event of elevated hydraulic pressure during storm events.

We also simulated a storm event by spraying the door and pavement outside of the wash bay lightly. This immediately resulted in a light stream of water entering the bay and pooling at the cleanout, identical to the photographs initially presented.

While the possibility of hydraulic pressure remains, it is significantly less probable.

We replaced the brass cover plate, but did not replace the 4" plug inside of the cap. Hopefully, any water that accumulates on top of the cleanout will seep around the cover plate and drain. If this does not work, we would suggest that the closed cover plate be replaced with a perforated cover.

In February 2021, the facility requested a Oil Water Separator service and inspection as the system was beyond the maximum five- year interval. A proposal was prepared and submitted and subsequently approved.

We mobilized to the facility on the morning of Thursday, April 1, 2021. The three chambers of the system were accessed by the removal of three manhole covers.

Free floating oil was removed from the chambers and the water phase was filtered and processed through the system until the bottom of each chamber was visible. No measurable sludge was encountered in any of the three chambers during the dewatering operation.

The twelve manhole cover bolts were all found to be in poor condition, three of these were without heads, seized in the bolt holes. Two of the manhole covers have cracked and lost an edge where the bolts secure the lid to the manhole. We first retapped the nine threaded bolt receivers, then replaced the removable bolts with new galvanized fasteners. The remaining three would have to be drilled out, holes retapped, and fasteners replaced.

Upon the completion of the cleaning and inspection of each chamber, the primary and secondary grit were filtered and processed through the final OWS chamber, then the OWS contents were transferred to the primary grit chamber. The OWS and secondary grit chamber were refilled with fresh water and the system resealed.

The OWS system is working properly, but we would recommend the replacement of the manhole cover bolts.

On Friday, March 7, 2025, we were contacted by Tidewater, the regional PM contractor regarding the servicing of seven of the Oil Water Separators in the region. A proposal was prepared and submitted for review, and was subsequently approved.

As it had been four years since the last service, we visited each facility the week of May 6th in order to gauge the accumulation of sludge. Four sites were found to have light accumulations and were scheduled for the week of May 12th, the other three have heavy accumulations and were scheduled for the week of June 23rd.

Site Service Performed: We mobilized to the facility on the afternoon of Tuesday, May 13, 2025. The three chambers of the system were accessed by the removal of three manhole covers.

Three of the manhole cover bolts are sheared off and seized in the manhole cover bases, as we reported in 2021, and two of the covers have cracked edges.

Free floating oil was removed from the chambers and the water phase was filtered and processed through the system until the bottom of each chamber was visible. No measurable sludge was encountered in any of the three chambers during the dewatering operation.

Upon the completion of the cleaning and inspection of each chamber, the primary and secondary grit were filtered and processed through the final OWS chamber, then the OWS contents were transferred to the primary grit chamber. The OWS and secondary grit chamber were refilled with fresh water and the system resealed.

Conclusions and Recommendations: The OWS system is working properly, but we would recommend the repair of the manhole cover bolts.

Attachment: Photographs of the Service

Thank you for the opportunity to offer our services to your facility. If you have any questions, please feel free to call at any time.

Sincerely,

Fratello and Amico, Inc.

Raymond B. Chain, III

Raymond B. Chain, III
President


SAND
TRAP