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## FIELD REPORT

PROJECT: QA/QC Evaluation DAY: Tuesday DATE: 11/24/20  
LOCATION: BPW WRF WEATHER: Sunny 40's  
GMB NO: 170148 OBSERVER: Scott W. Getchell, PO

### ATTENDEES:

Jeff Deats Inframark  
Paul Gunderson Inframark  
Scott Getchell George, Miles & Buhr, LLC (GMB)

### Summary of Activity:

Getchell met with Darrin Gordon at his office prior to the site visit to discuss the change in contract operations. Following that meeting, Getchell visited the treatment plant and met with Jeff Deats and Paul Gunderson from Inframark. All three walked through the entire treatment facility discussing operations. The following is a summary of the visit.

### Summary of Evaluation:

#### PROCESS

- a. Flow Equalization – The flow equalization tank is in service with visible freeboard. Deats has modified the operating range to allow for more capacity (3.5'-6'). The MCC replacement status is unknown. Getchell provided Deats with the MBA report.
- b. Headworks Screens – Deats reported that the ventilation issues have been resolved as far as he is concerned.
- c. Grit Removal – Some pipe corrosion is visible. Deats mentioned Inframark would like to have a permanent flushing line installed.
- d. Bioreactor and Nutrient Removal Tank – The biomass has good color and the aeration system seems to be working well. Deats mentioned he is trying to balance the DO levels in both trains. The Mixed Liquor Suspended Solids (MLSS) concentration is ~14,000 and Deats is targeting 8,000 – 10,000 based on Suez recommendation. Deats will be assessing the condition of the diaphragm scum pump to determine what it will take to get it back in service.
- e. Membranes (Suez System) – Deats reports some air getting trapped in the suction lines. One existing air release valve was replaced, and another manual air release valve was installed. Deats will be evaluating the automatic WAS system to determine what it will take to get it back in automatic operation (currently manual).
- f. Backpulse Permeate Tank – The HACH Solitax in-situ turbidity meter was installed in the tank to provide additional alarming for membrane protection. Getchell explained the alarm circuit is not currently connected into the WRF SCADA, but plans are to connect to the new Suez control panel. This was the reason for the probe installation. Inframark to follow-up on this. Inframark will be requesting a permanent NPW hose connection at the top of the tank to eliminate the need to drag several feet of wash down hose from below (safety concern).

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- g. Chemicals – The MicroC tank does not appear to have secondary containment. The Sodium Hypochlorite fill connection has been modified but it could be better. Inframark will follow-up on this. The new LMI caustic feed pumps are not working. Inframark will be following up with BPW on this.
- h. Ultraviolet Disinfection – Deats will request a technician from Trojan inspect the UV system.
- i. Emergency Generator – No issues noted.
- j. SCADA – Deats would like outside connectivity to the plant SCADA system (Getchell agrees). Inframark uses LogMeIn for this purpose. Inframark to seek approval from BPW to install on the SCADA PCs.
- k. Blowers – All are in service.
- l. Other – The overall upkeep of the facility has improved. Inframark is actively cleaning out each building. Deats has been inspecting all MCC's looking for non-working run lights.

#### SLUDGE

- a. Drying beds – All original beds have sludge on them. The three new beds construction appears to be complete, but they are not in service yet.
- b. Digester – Deats reports they experienced a minor spill a few weeks ago. The spill was reported and cleaned up immediately. A representative from Kubota was onsite recently to provide operator training. Inframark will request an HMI replacement since the existing unit is failing.
- c. Sludge Press – The press is currently not being used. The condition of the room has improved.
- d. Other – No other issues noted.

#### LAB

- a. Bench Sheets – Not discussed or viewed.
- b. Instruments – Not discussed or viewed.
- c. Other – No other issues noted.

#### PUMP STATIONS

- a. Assessment – Inframark is currently assessing the condition of all pump stations and will prepare and submit a report to BPW.
- b. Spare Pumps – Inframark is assessing the spare pump inventory to determine what stations are missing spares.
- c. Other – No other issues noted.

#### COMPLIANCE DOCUMENTS

- a. MORs – Inframark is using the existing MOR but will develop their own.
- b. DMRs – Not viewed.
- c. Permit compliance – Deats reports the facility is in compliance.

#### MAINTENANCE RECORDS

- a. Manuals – There are several manuals still located inside the maintenance building.

- b. Management System – Inframark is currently developing their own maintenance management system using CMMS software.
- c. Other – No other issues noted.

#### STAFFING

- a. Regional Manager – Michael Wolgemuth is located in PA but visits the facility frequently.
- b. Project Manager – Jeff Deats is on site each day and is currently the only licensed operator.
- c. Lead Operator – Paul Gunderson is on site each day and is actively pursuing certification.
- d. Operator – David Sylvester is on site each day.
- e. Mechanic – Nick Karpin is the mechanic for the facility.

#### BPW EQUIPMENT

- a. Working order/issues – No issues reported with BPW-owned equipment.
- b. Other – Inframark coordinates with BPW for specialized equipment when needed.

#### QUALITY CONTROL PROGRAM (WW/PS)

- a. Inframark is currently developing their own QA/QC program.

#### MAINTENANCE MANAGEMENT 90-DAY RECOMMENDATION TO BPW

- a. Getchell is not certain this applies. BPW to verify.

#### OTHER BPW SUBMISSIONS

- a. Getchell requested Inframark copy GMB on monthly reports.

#### ANNUAL EXPENSES QUARTERLY SUBMISSION TO BPW

- a. Getchell is not certain this applies. BPW to verify.

#### ANNUAL EVALUATION SUBMISSION TO BPW

- a. Inframark will be submitting annual reports.

#### EMERGENCY PREPAREDNESS PLAN

- a. Inframark will evaluate the current ERP created by WME and edit where appropriate.

#### **Recommended Follow-up Items:**

1. Stud bolts located next to the walkway on the Bioreactor and Nutrient Removal Tank must be removed as they pose a tripping hazard.
2. The turbidity meter installed in the Backpulse Permeate Tank should be connected to the SCADA for alarming.
3. GMB encourages Inframark to maintain a MLSS concentration per Suez recommendation (8,000-10,000).
4. Inframark/BPW/GMB to review deficient lighting issues throughout the facility.

5. GMB encourages Inframark to research the need for MicroC secondary containment.
6. Continue to cleanup and organize the entire facility.
7. Inframark to place special emphases on getting staff proper licensing.

**\*END OF REPORT\***