



Memo

To: Municipal Council

From: Alain D. Muise, CAO, Hans Pfeil, Director of PW

Date: December 10th, 2019

Below is a summary of the most recent meeting with Sea Life Fisheries regarding the state of the infrastructure at the Middle East Pubnico Water Facility. We have developed a firm plan of action for the coming 2-3 years. Below are highlights of the meeting.

Meeting Attendance – Dan, Jim, Alain, Vaughn, Joe, Tim (WSP) and Hans

1. WSP Well Assessment report:
 - a. Well production and Tank filling rates are not the same, the report suggests we produce about 50igpm but Jim is only noticing 33-35igpm arriving in the tank, this raises concerns about the distribution lines between the well and the tank. Tim explained his testing method.
 - b. Emergency storage volumes have been discussed and confirmed as described in the report, talked about back up options (mobile generator) in times of power outage.
 - c. Well rehabilitation discussion, what would be covered under the 75K costs that is mentioned in the report from July 2019. Tim mentioned several options such as:
 - i. Well jetting (air or water)
 - ii. Well pump repairs / renewal
 - iii. New well drilling (3rd or 4th well)
2. Next steps were discussed as we noticed more data is needed to make an informed decision about the new tank and the needed size:
 - a. Pipe video inspection to determine their condition, provide solutions and recommendations for repairs, (Tim to provide cost estimates to Hans)
 - b. Manhole and valve inspection to determine any damage or leakage points, proceed with repairs (Vaughn and Jim to perform a review)
 - c. Well pump inspection to determine the condition of the pumps (Vaughn and Hans to organize a boom truck to help), potentially replace pumps

- d. Electrical panel repairs and improvements to make the fit for a potential backup generator connection
- e. Review ABLE report from 2017 to look into cost effective tank repairs to stretch the safe operation by another 2-5 years to allow for research time on external funding opportunities.

The main issue with Middle East infrastructure is that it is all at end of life, and the key is to invest in the proper order. The challenge is that the tank is in desperate need of replacement, but the well and pipelines should be addressed first. We will invest in the video and well rehabilitation first and quickly, using reserves from the operation. This will buy us some time in obtaining funding from other government sources to invest in the tank. The investment in the tank cannot be done properly before addressing the well situation

In other news, the well was rehabilitated in Lower East Pubnico, with resounding success. The users have more pressure and less problems after investing in the well, pump and associated pipe replacement and adjustments.