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**City of Pompano Beach  
UTILITIES TREATMENT PLANT**

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**MEMORANDUM NO. 18 – 01**

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**DATE:** January 9, 2018

**TO:** Gregory Harrison, City Manager

**FROM:** Phil Hyer, Utilities Treatment Plants(s) Superintendent 

**VIA:** A. Randolph Brown, Utilities Director 

**SUBJECT: E-31-17 Deep Well Relining Project- Request for Emergency Change Order**

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The original scope of work for the membrane water treatment plant's deep well relining project was to brush the existing 16" steel casing and install a smaller size fiberglass reinforced pipe (FRP) and grout behind the FRP in a one stage operation. Layne Christensen (Contractor) was awarded bid E-31-17 in the amount of \$1,088,350.00 to perform this work.

During the initial stages of the work, the Contractor sent a camera to inspect the well, and found the conditions inside had deteriorated from the 2014 Mechanical Integrity Report included in the bid. The Contractor requested a change directive from the City due to the unforeseen conditions. The City agreed to time and materials work to be done under the contingency included in the bid award. This additional work was deemed required to allow the Contractor to perform the work as originally bid.

The Contractor continued with the additional work until it became apparent that the condition of the well casing necessitated work that would go above the allotted contract contingency and change order limits.

Due to the emergency nature of this project, the City and the Consulting Engineer, Stantec, continued to work with the Contractor on a plan to complete the work. After ongoing discussions with the Contractor and Stantec, a plan of action has been agreed upon. This requires a change order to the Contract changing the amount and time to completion.

The membrane water treatment plant is an integral part of supplying potable water to the residents. If the plant were not operational the City would not be able to supply potable water to all residents without risking potential water quality and regulatory compliance issues.

This deep well is a disposal well for the membrane plant byproduct. The membrane plant can process up to ten million gallons of water per day. Currently due to the deep well being out of service the maximum capacity of the membrane plant has been reduced to six million gallons of

water per day. This reduction impacts the overall quality of the finished water distributed to residents.

Delay in bringing the well back in operation may impact the City's regulatory compliance. In addition there was no disposal cost with the deep well in operation. We are currently sending the byproduct to Broward County for disposal at a cost to the City of an average of \$25,500.00 per month. Pumping the byproduct to Broward County has put a strain on the City's equipment that may result in a potential failure of the treatment plant system.

The Utilities Department is requesting an increase to purchase order 172554 in the amount of \$577,500 for an estimated 56 days of additional work. Additional funds and work may be required as conditions of the well casing are unknown at this point in time. This additional work will be paid out of funds in the Utilities reserve account.