



CONSTRUCTION PROJECT INFORMATION FLYER CITY OF ST. AUGUSTINE

Project Goal: Well D-3 Acidification

Address the declining performance of well D-3. The City will evaluate, and then develop a remedy to improve the efficiency of well D-3 with a team of hydrogeological experts. This will include static and dynamic pump tests, geophysical logs, camera inspections, acidification, and ultimately chlorination and reinstatement.

Project Improvements

The vertical turbine pump in well D-3 failed in late 2015 and was removed to perform an internal inspection of the pump. The pumps impellers were worn thin, and the pump was refurbished and reinstalled at the time. The City then proceeded to remove and inspect the pumps in wells D-2 and D-4 in anticipation of similar problems. However, the pumps in wells D-2 and D-4, although being the same make and model, did not show similar wear patterns and showed what would consider to be normal wear. CCI discussed well and pump performance with City staff and speculated that the pump issues seen in well D-3 were related to the performance of the well rather than a standalone failure of the pump. This belief is supported by the reduction in specific capacity noted in well D-3 by approximately 68% since well D-3 was constructed in 2008. Our goal is to regain the original capacity of the well by acidification. The consultant will "acidify" the well and remove calcium particulate that is most likely clogging the pores of the well casing. This will allow for more flow, and higher production.

Project Approved

2017 – R&R

Questions Concerning the Project

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Project Contractor

Connect Consulting, Inc.
Office Number: 561-479-8031
After Hours Number: N/A

Project Schedule

Start Date: January 22, 2018
Completion Date: March 24, 2018

Project Overview: The contractor will mobilize all equipment to the well field for evaluation of well D-3. This will include preparing a test pump for installation, running multiple static and dynamic flow/head tests. Conducting geophysical logs and TV services, as well as recording pumped temperature, resistivity, and velocity. After this testing period the contractor will provide the City with a full report on the condition of the well and the recommendations to recover the original production flow. At this time the City will discuss the recommendations, and move forward with recovery of the well based on the contractor's geological report.

Stormwater Utility Friendly Reminder

Help reduce environmental contamination by calling the Public Works Department at 825-1040 and reporting cave-ins, unusual amounts of standing water, clogged drains; illegal disposing of lawn debris, paint, oil, gas or any other items into the drainage system.