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Project Information: Evaluation of Existing Well Construction at Alapaha

Date: **March 31, 2026**

Per your request, Jim Stidham and Associates, Inc. (JSA) has developed this proposed scope of work and budget level cost estimate. JSA understands that Lowndes County is seeking hydrogeological support for the evaluation of well construction, hydrostratigraphy, and water quality at the Alapaha Plantation PWS system.

Task 1: Perform Geophysical and Video Inspection of the deep Borehole at Alapaha.

After an initial site visit for familiarity with the access and conditions, JSA will coordinate the video and geophysical logging of the deep Alapaha production well. This information will be used to examine the lithologic stratigraphy and water column stratification of the open borehole in the well. Secondary porosity (conduits and fractures), rock matrix and integrity as well as water column changes will be measured. The geophysical logging will evaluate temperature, conductivity, induction resistivity, gamma radiation and borehole diameter by caliper. Borehole aquifer connectivity will be evaluated under static and dynamic flow conditions by installing a temporary pump. With this information, a determination regarding the depth of possible column isolation can be made. If the conditions are appropriate, discrete samples will be collected from targeted depths for evaluation of variability in the water column. JSA will provide geological oversight and review of the data by a licensed Professional Geologist in the state of Georgia.

Task 2: Set inflatable well packers to isolate the bottom of the borehole from the top.

In a separate event, a temporary well packer will be set at a depth determined by the logging event. A pump will be installed within the packer for the collection of water quality samples from above the packer as well as monitor for pumping influence on the top of the column. Samples to be collected include: Field parameters of pH, conductivity, dissolved oxygen with laboratory determined Color, Iron, Total Organic Carbon (TOC), TDS, Chloride, Bromide, and Total Sulfide.

Task 3: Summary Report

JSA will generate a summary report of the investigation's findings with an opinion and recommendations for remediating the water quality issues identified.