



CITY OF IOWA CITY COUNCIL ACTION REPORT

August 1, 2023

Resolution approving, authorizing and directing the Mayor to execute and the City Clerk to attest an Agreement by and between the City of Iowa City and Strand Associates, Inc. to provide engineering consultant services for the Water Treatment Technology Study.

Prepared By:	Marri VanDyke, Civil Engineer
Reviewed By:	Jason Havel, City Engineer Ron Knoche, Public Works Director Geoff Fruin, City Manager
Fiscal Impact:	\$170,000 available in the Treatment Technology Study Project Account #W3321 and the Collector Well No. 2 Cleaning and Upgrade Account #W3322
Staff Recommendation:	Approval
Commission Recommendations:	N/A
Attachments:	Resolution Agreement

Executive Summary:

This agenda item approves the consultant agreement with Strand Associates, Inc. for services related to the Water Treatment Technology Study, which includes an engineering study of dissolved nutrient removal from source water, the long-term financial and environmental sustainability of lime softening, and filter system valving and build-out based on the study results.

Background / Analysis:

Regulations on source and finished water are changing with federal administrations and increasing evidence of chemical toxicity, which will result in a need to have treatment technologies capable of ionic removal. Further, quicklime and lime solids managements costs have continued to increase and a cost/benefit analysis of lime softening is warranted while investigating treatment technologies. The existing filters may need modification to accommodate new technologies. This is a study and will inform future CIP projects, including five projects on the unfunded list – Nutrient Removal, WTP Filter #6 Buildout, Water Plant Softener Improvements, Soda Ash Replacement, and Lime Lagoon Outlet Structure Modifications.