

CITY COUNCIL RESOLUTION NO. 2020-108

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LAKE CITY, FLORIDA, AUTHORIZING THE EXECUTION OF TASK ASSIGNMENT NUMBER TWELVE TO THE CONTINUING CONTRACT WITH JONES EDMUNDS & ASSOCIATES, INC., FOR THE PROFESSIONAL CONSULTING SERVICES AND COMPLETION OF AN ALTERNATIVE WATER SUPPLY FEASIBILITY STUDY; AND TO PAY THE CONSULTANT A NOT-TO-EXCEED AMOUNT OF \$56,000.00 FOR ITS SERVICES.

WHEREAS, the City of Lake City, Florida (hereinafter the “City”) entered into a Continuing Contract for Professional Services with Jones Edmunds & Associates, Inc. (hereinafter “Jones Edmunds”) effective February 3, 2014 (hereinafter the “Continuing Contract”), as authorized by City Council Resolution No. 2014-008 with respect to certain studies, planning, design and construction of improvements to the City water system, wastewater system, reuse water, stormwater systems, gas system, Lake City Gateway Airport (hereinafter the “Airport”), City recreational facilities, City Hall, City safety facilities and streets (herein collectively the “City Projects”); and

WHEREAS, the Continuing Contract provides that Jones Edmunds shall perform services to the City only when requested to and authorized in writing by the City and that each request for services shall be for a specific project, with the scope of the work to be performed by and compensation to be paid to Jones Edmunds for each separate project and be defined by and embodied in a separate Task Assignment; and

WHEREAS, the City desires to enter into Task Assignment Number Twelve with Jones Edmunds to receive assistance with an Alternative Water Supply Feasibility Study, pursuant to the terms and conditions of Task Assignment Number Twelve, a copy of which is attached hereto as “Exhibit A” and made a part of this resolution (“Task Assignment Number Twelve”), and in compliance with the Continuing Contract.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF LAKE CITY, FLORIDA, AS FOLLOWS:

Section 1. The above recitals are all true and accurate and are incorporated herein and made a part of this resolution.

Section 2. The City is hereby authorized to execute Task Assignment Number Twelve with Jones Edmunds for the Additional Services.

Section 3. The City Manager and City Attorney are authorized to make such reasonable changes and modifications to Task Assignment Number

Twelve as may be deemed necessary to be in the best interest of the City and its citizens. The Mayor is authorized and directed to execute and deliver Task Assignment Number Twelve in the name and on behalf of the City, with such changes, amendments, modifications, omissions, and additions made by the City Manager and City Attorney, if any. Execution by the Mayor and Jones Edmunds shall be deemed to be conclusive evidence of approval of such changes, amendments, modifications, omissions, and additions if any.

PASSED AND ADOPTED at a meeting of the City Council on this ____ day of October 2020.

CITY OF LAKE CITY, FLORIDA

By: _____
Stephen M. Witt, Mayor

ATTEST:

APPROVED AS TO FORM AND
LEGALITY:

By: _____
Audrey E. Sikes, City Clerk

By: _____
Frederick L. Koberlein, Jr.,
City Attorney

TASK ASSIGNMENT TWELVE TO THE CONTINUING CONTRACT BETWEEN THE CITY OF LAKE CITY, FLORIDA, AND JONES EDMUNDS & ASSOCIATES, INC., FOR PROFESSIONAL CONSULTING SERVICES AND COMPLETION OF AN ALTERNATIVE WATER SUPPLY FEASIBILITY STUDY.

THIS TASK ASSIGNMENT NUMBER TWELVE is made and entered into this ____ day of October 2020, by and between the CITY OF LAKE CITY, FLORIDA, a municipal corporation, located at 205 North Marion Avenue, Lake City, Florida 32055 (herein referred to as "City") and JONES, EDMUNDS & ASSOCIATES, INC., a Florida limited liability company, having a mailing address of 730 NE Waldo Road, Gainesville, Florida 32641 (herein referred to as "Consultant")

RECITALS

A. City and Consultant have heretofore entered into a Continuing Contract dated February 3, 2014, for professional consulting services as authorized by City Council Resolution No. 2014-008 (the "Continuing Contract")

B. The Continuing Contract provides that Consultant shall perform services to the City only when requested to and authorized in writing by City and that each request for services shall be for a specific project, with the scope of the work to be performed by and compensation to be paid to Consultant for each separate project and be defined by and embodied in a separate Task Assignment.

C. The City is in need of additional assistance with the completion of an alternative water supply feasibility study and desires to enter into Task Assignment Twelve with Consultant for such services pursuant to the terms and

conditions contained in Consultant's proposed Scope of Services (hereinafter "Supplemental Agreement"), a copy of which is attached as "Exhibit A".

NOW, THEREFORE, in consideration of the premises and the mutual covenants and agreements herein contained, the parties hereto agree as follows:

1. **RECITALS**: The above recitals are all true and accurate and are incorporated herein and made a part of Task Assignment Twelve.

2. **PROJECT**: The City hereby engages Consultant and Consultant agrees to furnish to the City the services and work as set forth in the Supplemental Agreement, attached hereto.

3. **COMPENSATION TO CONSULTANT**: City shall pay Consultant a fixed fee for services at a total projected cost not to exceed \$56,000.00.

4. **PROVISIONS OF CONTINUING CONTRACT**: The terms, provisions, conditions, obligations, and requirements of the Continuing Contract are incorporated in and made a part of this Task Assignment and shall be binding on, and complied with by, Consultant.

5. **ATTORNEYS' FEES AND COSTS**. In the event of breach by either party of the Continuing Contract or Task Assignment, the breaching party shall be liable for and agrees to pay, all costs and expenses incurred in the enforcement of this Continuing Contract or Task Assignment Twelve, including reasonable attorneys' fees.

6. **ENTIRE AGREEMENT**. This Task Assignment Twelve and the Continuing Contract constitutes the entire agreement between the City and Consultant and supersedes all prior written or oral understandings with respect to the project.

This Task Assignment Twelve may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

7. **PARTIES BOUND**. This Task Assignment Number Twelve shall be binding upon and shall inure to the benefit of the City and Consultant, their successors and assigns.

IN WITNESS WHEREOF, the parties hereto have made and executed this Task Assignment Number Twelve as of the day and year first above written.

CITY OF LAKE CITY, FLORIDA

By: _____
Stephen M. Witt, Mayor

ATTEST:

By: _____
Audrey E. Sikes, City Clerk

APPROVED AS TO FORM AND LEGALITY:

By: _____
Frederick L. Koberlein, Jr.,
City Attorney

ATTEST:

JONES, EDMUNDS & ASSOCIATES, INC.

By: _____
Angela Witt,
Contracts Administrator

By: _____
Stanley F. Ferreira, Jr.,
Vice President



SCOPE OF SERVICES

Alternative Water Supply Feasibility Study

PREPARED FOR: Mike Osborne, CSM, CPM, DW A
Director of Water Treatment
692 SW Saint Margarets Street
Lake City, Florida 32025

DATE: September 21, 2020

SUBJECT: City of Lake City Alternative Water Supply Feasibility Study
Jones Edmunds Opportunity No. 95110-310-20

BACKGROUND

The CLIENT has requested assistance from the CONSULTANT to complete an Alternative Water Supply Feasibility Analysis to support the renewal of their Water Use Permit (WUP). The Suwannee River Water Management District (SRWMD) issued WUP No. 2-023-217754-3 on April 12, 2011. The WUP allows the withdrawal of 4.1906 million gallons per day from the Floridan Aquifer.

The WUP expires December 11, 2023. The City is currently utilizing approximately 80% of their permitted allocation. The City wishes to secure a 20-year permit to ensure enough water supply for economic development anticipated for the City's service area. The City anticipates that they will need an increase in the permitted allocation to meet projected water supply over the 20-year period.

The 2015 adopted Minimum Flow and Level (MFL) for the Lower Santa Fe and Ichetucknee Rivers states that those bodies are in recovery and thus a recovery strategy is in place. Although the MFL is under reevaluation, the current rule allows existing permitted users to maintain their permitted withdrawals with a 5-year permit. However, to qualify for longer permit duration the applicant must demonstrate that their entire impact is offset through return flows or Alternative Water Supply projects. To increase the permitted allocation, the applicant must demonstrate sufficient return flows and AWS projects to offset their existing allocation plus the proposed increase.

This AWS Feasibility Study will include groundwater modeling to determine the City's current and proposed withdrawal impacts to the Lower Santa Fe and Ichetucknee. The study will evaluate potential AWS projects and quantify the offsets to the City's withdrawals.

SCOPE OF SERVICES

TASK 1 – KICKOFF MEETING AND PROJECT MANAGEMENT

Jones Edmunds will participate in a kickoff meeting with the City and the SRWMD to discuss project goals and available data for use in the analysis. Jones Edmunds will coordinate with the SRWMD and the St. Johns River Water Management District (SJRWMD) to obtain the latest versions of the North Florida (NF) regional groundwater flow model and the North Florida-Southwest Georgia (NFSEG) regional groundwater flow model.

This task also includes project management activities and monthly phone calls with the City to discuss project status and data needs.

DELIVERABLES

- Electronic copy (PDF) of minutes from the kickoff meeting.

TASK 2 – WATER BALANCE AND WATER DEMAND PROJECTIONS

Jones Edmunds will create a baseline model scenario that does not include withdrawals from the City's wells and will run a second model simulation at the City's current permitted allocation to quantify the City's current permitted impact to the MFLs. We will also estimate current return flows for land application of water withdrawn by the City. Estimated return flows are expected to include the following:

- City constructed wetland treatment cells.
- City sprayfields.
- Reclaimed water application.
- Estimated irrigation from City supplied water.
- Estimated septic system flows from City supplied water.

Jones Edmunds will use projected Countywide growth rates from the University of Florida Bureau of Economic and Business Research (BEBR) to estimate population growth within the City's Service Area. Jones Edmunds will also obtain information from the City on potential commercial and residential developments not represented by the BEBR growth projections. Jones Edmunds will use this information to develop projected water demands over the next 20 years.

Jones Edmunds will use the City's monthly water use data and effluent reuse and disposal quantities for the past 5 years to complete a water balance. The water balance will estimate the percentage of the withdrawals returned via effluent disposal, landscape irrigation, and septic system flows.

DELIVERABLES

- Electronic copy (PDF) of technical memorandum detailing the estimated current return flow percentages.

TASK 3 – DISTRICT REVIEW MEETING

We will compare the results of the two models and will attend a web meeting with SRWMD and SJRWMD staff to discuss the following:

- Estimated impacts from the NF and NFSEG models.
- Model proposed for analysis.
- Methods and results for estimated return flows.
- Water bodies of concern and specific model cells and layers for which quantification of impacts are necessary.

DELIVERABLES

- Electronic copy (PDF) of meeting minutes.

TASK 4 – RETURN FLOW SIMULATIONS

After the meeting with SRWMD and SJRWMD staff, Jones Edmunds will finalize the return flows for the current and proposed City withdrawals. The current and projected return flows will be based on the percentages established in the water balance. We will run model simulations to quantify the offsets to the MFLs for the current permitted allocation and the proposed permitted allocation.

Deliverables

- Electronic copy (PDF) of technical memorandum detailing the estimated offsets from current and future return flows.

TASK 5 – AWS PROJECT SELECTION AND SIMULATIONS

Jones Edmunds will perform a desktop GIS analysis using the City’s current reclaimed water lines, existing City-, County-, or SRWMD-owned property, other significant users, proposed service area expansions, and the resources of concern to select locations of potential AWS or offset projects. The types of projects are expected to include the following:

- Reclaimed water offsets within the City’s capture zone.
- Agricultural user offsets.
- Golf-course offsets.
- Commercial/Industrial offsets.
- Stormwater capture for infiltration via land application or drainage wells.
- Beneficial recharge of a Recharge Well at the City wetland.
- Beneficial recharge of other new constructed Wetlands, RIBs, or sprayfields.
- Existing/Future Wellfield Evaluations – Moving some of the supply wells to another location such as closer to recharge areas or further from the MFLs.
- Evaluation of Landuse changes – Silviculture and urbanization.

The stormwater capture analysis will use a geospatial flow accumulation model (based on LIDAR digital elevation models) to identify areas with excess stormwater for capture. We will also evaluate and potentially use existing geospatial data such as NRCS soils Florida Geologic Survey identified recharge areas, to evaluate areas as potential recharge sites. If potential

areas for stormwater capture and infiltration are identified as a viable AWS project, the approximate flow accumulation model will be used to estimate the annual average recharge quantity for further evaluation in the groundwater model.

Jones Edmunds will attend a meeting with the City and the SRWMD to discuss the potential offsets and project locations. At the meeting Jones Edmunds will present approximately 15 potential AWS projects for consideration. The AWS projects may consider similar concepts at different locations. Information developed for each AWS project will include the approximate project location, acreage, and the proposed water source and quantity. Up to ten model scenarios will be selected at the meeting. Jones Edmunds will use the model to develop simulations for the proposed projects and will evaluate the offset provided by each project.

DELIVERABLES

- Electronic copy (PDF) of technical memorandum detailing the estimated offsets from potential AWS projects.

ASSUMPTIONS AND EXCLUSIONS

The CONSULTANT assumes the following:

- The proposed meetings are planned to be web meetings.
- The City will provide information on planned residential and commercial developments for the water demand projections.
- SRWMD will confirm the model cells and layers that should be quantified for the analysis.
- Return flows will be simulated in the groundwater model using the model recharge coefficients or aquifer injection and the NFSEG HSPF files will not be modified for simulations.
- The City will provide wellfield withdrawals, reclaimed water use, sprayfield, and wetland inflows on a monthly basis for the past 5 years.
- The City will provide locations of the City's sewer and water lines and current customer data to identify properties on City water and septic systems.
- The proposed AWS projects may not offset 100% of the City's withdrawals.
- The project does not include design and cost estimates of the AWS projects.

METHOD OF PAYMENT

As consideration for providing the services enumerated in this SCOPE OF SERVICES, the CLIENT shall pay the CONSULTANT on a percent complete basis for a lump sum of \$56,000.00. Invoices will be submitted monthly. The estimated task fees are as follows:

Task	Fee
Task 1 – Kickoff Meeting and Project Management	\$6,632
Task 2 – Water Balance and Current Allocation Simulations	\$9,900
Task 3 – District Review Meeting	\$1,570
Task 4 – Existing Return Flow Simulations	\$9,934
Task 5 – AWS Project Selection and Simulations	\$27,964
Total	\$56,000

PROJECT SCHEDULE

The CONSULTANT will begin work upon Notice to Proceed (NTP) and continue until the Scope of Services is completed. The estimated project schedule is shown below. If the Schedule is altered due to unforeseen delays, the CLIENT's Project Manager shall be notified at once.

Milestone	Activity Duration (Days)	Days from NTP
Task 1 – Kickoff Meeting and Project Management	15	180
Task 2 – Water Balance and Water Demand Projections	45	60
Task 3 – District Review Meeting	15	75
Task 4 – Existing Return Flow Simulations	30	105
Task 5 – AWS Project Selection and Simulations	90	195

Jones Edmunds appreciates your trust in our staff in continuing to serve the City of Lake City and we look forward to working with the City on this important project. If you have any questions or wish to discuss any aspect of the proposed Scope of Services, please contact us at (352) 377-5821.

Sincerely,



Michelle Hays, MS, PG
Project Scientist
mhays@jonesedmunds.com



Jamie Sortevik Bell, PE, CFM
Engineer
jsbell@jonesedmunds.com