

## TASK ORDER TO THE AGREEMENT

In accordance with the Hydrogeological Services Agreement, approved by the Board of County Commissioners on (the "Agreement") for work within the scope of Solicitation 24Q-268-TO-01 Modified Water Use and Consumptive Use Permits, this Task Order to the Agreement (this "Amendment") is made and entered into between Jones Edmunds & Associates, Inc., whose address 13545 Progress Boulevard, Suite 100, Alachua, FL 32615, and possessing FEIN# 59-1533071 ("CONTRACTOR") and Marion County, a political subdivision of the State of Florida, 601 SE 25th Avenue, Ocala, FL, 34471 ("COUNTY").

### WITNESSETH

WHEREAS the parties wish to amend the Agreement as set forth below; and;

IN CONSIDERATION of the mutual covenants and conditions contained herein, the parties do hereby agree as follows:

1. This Amendment shall be deemed to amend and become a part of the Agreement in accordance with the original Solicitation and Agreement for Hydrogeological Services under 24Q-268.
2. CONTRACTOR's services and performance will be in accordance with Exhibit A ~ Scope of Work and Exhibit B ~ Fee Schedule, hereto. The total cost for the Project will not exceed Three Hundred Forty-Nine Thousand Three Hundred Ten Dollars and Sixty Cents (\$349,310.60). All Work shall proceed in a timely manner without delays. **TIME IS OF THE ESSENCE.** All limitations of time set forth in the Contract Documents are of the essence of this Contractor. The Work may be presumed abandoned after ninety (90) days if CONTRACTOR terminates the Work without just cause or without proper notification to COUNTY, including the reason for termination, or fails to perform Work without just cause for ninety (90) consecutive days.
3. **Governing Law, Law, Venue, Waiver of Jury Trial, and Attorney's Fees:** This Agreement and all the Contract Documents shall be construed according to the laws of Florida and shall not be construed more strictly against one party than against the other because it may have been drafted by one of the parties. In the event of any legal proceeding arising from or related to this Agreement; (1) venue for state or federal legal proceedings shall be in Marion County, Florida (2) for civil proceedings, the parties consent to trial by the court and waive right to jury trial, (3) the prevailing party shall be entitled to recover all of its costs, including attorney's fees. This section shall survive the termination of the Agreement.
4. All provisions of the Agreement not specifically amended herein shall remain in full force and effect.

*(Remainder of page intentionally left blank. Signature page to follow.)*

IN WITNESS WHEREOF the parties have entered into this Amendment, as approved by the Marion County Board of County Commissioners, on the date of the last signature below.

**ATTEST:**

**MARION COUNTY, A POLITICAL SUB-DIVISION OF THE STATE OF FLORIDA**

\_\_\_\_\_  
GREGORY C. HARRELL, DATE  
MARION COUNTY CLERK OF COURT

\_\_\_\_\_  
KATHY BRYANT DATE  
CHAIRMAN

**FOR USE AND RELIANCE OF MARION  
COUNTY ONLY, APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY**

**BCC APPROVED:** August 19, 2025  
24Q-268-TO-01 Modified Water Uses and  
Consumptive Use Permits

\_\_\_\_\_  
MATTHEW G. MINTER, DATE  
MARION COUNTY ATTORNEY

**WITNESS:**

**Jones Edmunds & Associates, Inc.**

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
BY: DATE

\_\_\_\_\_  
PRINTED NAME

\_\_\_\_\_  
PRINTED:

**WITNESS:**

\_\_\_\_\_  
ITS: (TITLE)

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
PRINTED NAME

## SCOPE OF SERVICES



July 11, 2025

Tony Cunningham, PE, Utilities Director  
Marion County Board of County Commissioners  
11800 SE US Hwy 441  
Bellevue, FL 34420

RE: Scope of Work: Marion County Utilities Department Water Use Permit 6151  
Modification and Consumptive Use Permit 4578 Renewal Scope of Services  
Jones Edmunds Opportunity No.: 95443-120-25

Dear Mr. Cunningham:

Jones Edmunds is pleased to provide Marion County with this proposal to assist with Marion County Utilities Water Use Permit modification and Consumptive Use Permit Renewal.

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## BACKGROUND

Marion County's Water Utility Service area falls within two Water Management Districts — the Southwest Florida Water Management District (SWFWMD) and the St. Johns River Water Management District (SJRWMD). Floridan aquifer withdrawals for public water supply use in SWFWMD are permitted under Water Use Permit (WUP) No. 6151 and withdrawals in SJRWMD are permitted under Consumptive Use Permit (CUP) No. 4578.

Withdrawals permitted under WUP No. 6151 have exceeded the individual wellfield allocations in the permit and are approaching the total 2042 threshold. WUP No. 6151 needs to be modified to increase the flexibility of the wellfield withdrawals and the overall capacity of the WUP. Marion County is also renewing SJRWMD CUP No. 4578. The renewal application submitted in September 2023 requests an increase from 7.09 MGD to 8.812 MGD. SJRWMD issued a request for additional information (RAI) on October 5, 2023.

The distributions systems for the WUP and CUP are currently separate; however, the County plans to interconnect the systems in the future. Therefore, as part of this work, the County would like to evaluate the potential benefits of and issues with consolidating the CUP and WUP.

Jones Edmunds will work closely with the Liquid Solutions Group (LSG) to provide services to support the submittal of a modified WUP request to SWFWMD and a response to the RAI questions for the CUP renewal to SJRWMD. The project effort will be divided in the following manner: LSG will provide groundwater modeling services, and Jones Edmunds will provide engineering oversight, delivery review, and environmental assessment for the project.

## SCOPE OF SERVICES

### 1 Kickoff Meeting, Data Requests, and Project Management

Jones Edmunds and Liquid Solutions Group, Inc. (Team) will participate in a kickoff meeting with the County to discuss project goals, data needs, and expectations. The kickoff meeting will also discuss the County's constraints, timing, and drivers for a permit consolidation. We expect that the County will provide the following information:

- Five-year historical population and water use for each service area (available in the Public Supply Annual Reports).
- Five-year historical reuse data (available in the annual reuse reports).
- Latest water audits for each water system.
- Meter calibration reports.
- Current Environmental Management Plan (EMP) and data.
- Current Water Conservation Plans.
- Planned development buildout phasing and approval information (zoning, ERP, site development plan, etc.).
- GIS of existing service areas and any planned changes.
- Well performance data and capacity limitations.
- Plans for additional wells, if any.
- Reuse system service area and expansion plans.
- CUP 4578 demand projections.
- CUP 4578 future service area and expansion plans.
- CUP 4578 EMP plan and data.

Most of these data have been obtained for WUP 6151 as part of the previous WUP Evaluation Project. The purpose of the data request will be to confirm the status of the previously obtained data and receive data for CUP No. 4578. The above data request will be updated following the kickoff meeting. The Team will also participate in up to 12 progress meetings via virtual teleconference.

### 2 SWFWMD WUP Modification (WUP 6151)

This task includes time to coordinate with SWFWMD and prepare a Permit Modification Request. The Jones Edmunds Team will complete the following subtasks to develop a WUP Modification Request and obtain the Permit Modification.

#### 2.1 WATER USE PROJECTION UPDATES AND WORKSHOP

The Jones Edmunds Team will use SWFWMD's parcel-level population database, planned development information, and historical water use data to prepare updated water use projections through 2045 for the County's service areas.

The Jones Edmunds Team will prepare a Technical Memorandum (TM) summarizing the water demands and will attend a virtual workshop with SWFWMD staff to present the

demand projections. This task includes time to discuss the population and water demand methodology with SWFWMD staff and to revise demand projections based on comments. Following the meeting, the Team will finalize the water demand TM addressing comments from SWFWMD on the demand projections to the extent feasible before proceeding with Task 3.2.

#### TASK 3.1 DELIVERABLES

- Electronic copy of Meeting agenda and minutes.
- Electronic copy of the Final TM.

## 2.2 GROUNDWATER MODELING PLAN

The Jones Edmunds Team will prepare for and attend a workshop with SWFWMD staff to discuss the groundwater models and scenarios for the WUP modification. The proposed scenarios will be summarized in a PowerPoint presentation for review by Marion County. The scenarios will be discussed at a virtual meeting before the workshop with SWFWMD. Comments will be addressed following the workshop and will result in an "approved" plan, which will be used to guide groundwater modeling scenarios executed under Task 3.3.

#### TASK 3.2 DELIVERABLES

- Electronic Copy of Draft Groundwater Modeling Plan
- Electronic copy of Meeting presentation and minutes.
- Electronic copy of Final Groundwater Model plan.

## 2.3 GROUNDWATER MODELING

The Jones Edmunds Team will evaluate the potential impacts to area MFLs, wetlands, and existing users from the increased water demand through groundwater modeling. The Team will prepare a baseline scenario and up to three future scenarios to evaluate the potential impacts of increased water withdrawals. Development of the scenarios will include:

- Review the proposed well pumping distribution and capacity to develop the proposed withdrawal scenarios.
- Review proposed recharge projects to include in the groundwater model scenarios.
- Assess impacts to existing MFLs.
- Assess potential water level impacts to wetlands.
- Analyze to identify the potential for saltwater upconing at the proposed pumping rates and the need for additional proposed production wells.

After reviewing the model results, the Jones Edmunds Team will meet with the County to discuss the model scenario results to be used for permitting. The groundwater modeling and impact assessment will be documented in the TM to be included with the permit application. The TM will include:

- A description of the methodology and results.
- Production of drawdown contour maps of the model scenarios for use in assessing environmental impacts.

- A well inventory presenting locations and construction details of existing wells within the 1-foot drawdown contour. The well inventory will be based on information documented in databases maintained by the Florida Department of Environmental Protection (FDEP), SWFWMD, and SJRWMD. We assume that sites visit or additional efforts to identify or confirm construction information will not be required.

#### TASK 3.3 DELIVERABLES

- Electronic copy of Draft Groundwater Model Impact Analysis.
- Electronic copy of Final Groundwater Model and Impact Analysis TM.
- Electronic copies of the groundwater model files.

## 2.4 WATER CONSERVATION PLAN

The Jones Edmunds Team will prepare a Standard Water Conservation Plan to support the permit modification. The Team will meet with County staff and discuss information that will be needed to develop the Water Conservation Plan. The Plan will outline the existing programs in place as well as future programs to conserve water in the County's service area. The Team will evaluate current water conservation initiatives and identify other potential conservation methodologies that the County may consider. The Plan will include a Water Audit. The Team will request data from the County to complete the audit using 1 year of data within the past 5 years.

#### TASK 3.4 DELIVERABLES

- Electronic copy of Draft Water Conservation Plan.
- Electronic copy of Final Water Conservation Plan.

## 2.5 ENVIRONMENTAL MONITORING PLAN

If required by SWFWMD, the Jones Edmunds Team will prepare an Environmental Monitoring Plan. The Team will coordinate with County to review the existing data, identify potential monitoring locations, and develop a draft monitoring plan.

The Team will identify suitable wetlands, complete up to three sites visits, provide a wetland assessment required by the District(s), and prepare descriptions of the proposed monitoring locations, frequencies, and methodologies. The Team will provide updated groundwater contour maps with the proposed monitoring locations and other features such as wetlands and County-owned property.

#### TASK 3.5 DELIVERABLE

- Electronic copy of draft
- Electronic copy of final Environmental Monitoring Plan.

## 2.6 RECLAIMED WATER USE SUMMARY

The Team will participate in a virtual meeting with the County to discuss future reclaimed water use. The meeting will also discuss recent (within the past 5 years) and proposed enhancements to reclaimed water infrastructure that could result in increased levels of

beneficial reuse. Following the meeting, the Team will prepare a TM summarizing historical reclaimed water use and future projected use within the County's service areas.

**TASK 3.6 DELIVERABLE**

- Electronic copy of Draft Reclaimed Water Use TM.
- Electronic copy of Final Reclaimed Water Use TM.

## **2.7 WUP APPLICATION PACKAGE**

The Jones Edmunds Team will prepare a permit application that includes the following:

- Individual Consumptive Use Permit Main Application.
- Form E – Public Supply Supplemental.
- TM documenting the results of the Groundwater Modeling and Existing User Impact Analysis.
- TM summarizing proposed reclaimed water use.
- Location site map.
- Supporting tables and figures.
- Standard Water Conservation Plan and Water Audit.
- Proposed Environmental Monitoring Plan.

The Jones Edmunds Team will prepare the Draft WUP application package for County review. Following County review, the Team will upload the documents to the online permitting portal for submittal.

**TASK 3.7 DELIVERABLE**

- Electronic copy of the compiled application package.

## **2.8 PERMIT REVIEW SERVICES**

This task includes time to coordinate draft permit review with the District(s), prepare clarification materials, discuss clarification requests with District staff and the County, discuss requests for additional information, and prepare responses to requests for clarification or information. This task also includes reviewing the draft WUP so that the permit conditions are in accordance with the permit application. The Jones Edmunds Team will provide written comments on the permit to submit to SWFWMD and will assist the County in revising the WUP if necessary.

We assume that the responses will be clarifications of data or assessments previously completed for the WUP and that no assessments, site visits, or in-person meeting will be required for this task. A proposal for a new task order will be prepared if the RAI response requires additional model scenarios or assessments.

**TASK 3.8 DELIVERABLES**

- Electronic copies of RAI response(s).

### **3 SJRWMD CUP RAI Response (CUP 4578)**

This task includes time to coordinate with SJRWMD and prepare a response to the October 5, 2023, RAI. The Team will complete the following subtasks to address the following RAI comments.

#### **3.1 RAI REVIEW MEETINGS AND DATA REQUEST**

The Team will participate in a virtual meeting with the County to review the RAI and discuss the approach to address each comment. Following the review meeting, the Team will develop a data request for information necessary to complete the RAI response. The Team will prepare for and participate in a meeting with SJRWMD to discuss the RAI and proposed plan to address SJRWMD's comments.

##### **TASK 4.1 DELIVERABLE**

- Electronic copy of the data request.
- Electronic copy of the PowerPoint Presentation.
- Electronic copy of the meeting minutes.

#### **3.2 DEMAND PROJECTION UPDATES (RAI COMMENT 4)**

The Team will review the water demand projections submitted with permit application and obtain 2020 Census data for the service area. The Team will prepare a draft TM to document and update the water demand projections submitted with the application package. The water demand projections will be updated to incorporate any changes from planned development information and recent water use data. The Team will participate in a review meeting with SJRWMD staff and finalize demand projections.

##### **TASK 4.2 DELIVERABLE**

- Electronic copies of Water Demand TM and meeting minutes.

#### **3.3 RECLAIMED WATER USE (RAI COMMENT 5)**

The Team will use the TM prepared for the SWFWMD WUP (Task 3.6) to respond to the SJRWMD RAI question related to lower-quality sources. The Team expects the potential for some changes to the TM as a result of discussions with SJRWMD.

##### **TASK 4.3 DELIVERABLE**

- Electronic copies of final Reclaimed Water TM.

#### **3.4 GROUNDWATER MODELING (RAI COMMENT 6):**

The Jones Edmunds Team will prepare responses to SJRWMD staff questions on the groundwater models and scenarios for the CUP modification. The Team will complete the following work efforts to develop a response:

- Compile and review water quality data and/or complete upconing calculations to evaluate water quality.



- Prepare a Groundwater Modeling Plan to incorporate updated water demand projections and any projected reclaimed return flows or alternate water sources.
- Attend a virtual meeting with SJRWMD to discuss proposed Groundwater Modeling Plan.
- Incorporate SJRWMD comments into the final Plan and complete groundwater modeling.
- Prepare a TM documenting the groundwater modeling results and potential for impacts to natural systems and existing users.
- Transmit groundwater modeling files to SJRWMD.

#### TASK 11.4 DELIVERABLES

- Electronic copies of the Groundwater Modeling Plan.
- Electronic copies of the meeting minutes.
- Electronic copies of the Groundwater Modeling TM

### **3.5 MFL OFFSET PLAN (RAI COMMENTS 7 AND 8)**

To respond to the SJRWMD comment on MFLs, the Team will prepare an MFL Offset Plan. The Team will complete the following work elements:

- Coordinate with Marion County to develop offset strategy and/or an updated Environmental Monitoring Plan.
- Prepare a TM documenting the County's offset strategy.

#### TASK 11.5 DELIVERABLES

- Electronic copies of Offset Plan TM.

### **3.6 WELLFIELD OPERATING PLAN (RAI COMMENT 9)**

The Team will prepare the wellfield specific allocations and run up to three alternate scenarios to review and incorporate into the groundwater modeling to be completed under Task 4.4. The intent will be to identify pumping constraints for the wellfields and to incorporate flexibility in the County's ability to withdraw from their wellfields. The Team will complete the following work elements:

- Participate in a workshop with Marion County to discuss environmental and operational constraints.
- Prepare the Wellfield Optimization Plan that outlines pumping and/or water quality thresholds for the County's wellfields.

#### TASK 4.6 DELIVERABLES

- Electronic copies of Wellfield Optimization Plan and meeting minutes.

### **3.7 WELL INTERFERENCE PLAN (RAI COMMENT 10):**

The Jones Edmunds Team will prepare a Well Interference Mitigation Plan. The Team will participate in one meeting with the County to review and finalize the plan.

#### TASK 4.7 DELIVERABLES

- Electronic copies of Well Interference Mitigation Plan.

### **3.8 WATER CONSERVATION PLAN (RAI COMMENT 11)**

The Team will use the TM prepared for the SWFWMD WUP (Task 3.4) to respond to the SJRWMD RAI question related to water conservation. The Team expects the potential for some changes to the TM as a result of discussions with SJRWMD. Additionally, the Team will coordinate with the County to incorporate information from the County's Water Loss Reduction Plan to address unaccounted-for water use greater than 10 percent.

#### **TASK 11.8 DELIVERABLES**

- Electronic copies of final Water Conservation Plan.

### **3.9 LOCAL SOURCES FIRST ANALYSIS (RAI COMMENT 13)**

In 1998, the Florida Legislature enacted legislation encouraging the use of water from sources nearest the area of use, whenever practicable (paragraph 373.016(4)(a), FS). The Legislature also recognized that under certain circumstances the need to transport water from distant sources may be necessary for environmental, technical, or economic reasons (paragraph 373.016(4)(b), FS). Pursuant to section 373.223, F.S., the Team will evaluate the six required factors to show that the applicant's withdrawal of water across county boundaries (from Marion to Sumter County) meets the local sources first criteria.

#### **TASK 4.9 DELIVERABLES**

- Electronic copies of RAI response.

### **3.10 PREPARATION OF RESPONSE PACKAGE**

The Team will prepare a written response to the RAI incorporating information from the County and the TMs developed in the above tasks.

#### **TASK 4.10 DELIVERABLES**

- Electronic copies of RAI response.

### **3.11 PERMIT REVIEW SERVICES (CUP 4578)**

This task includes time to coordinate draft permit review with SJRWMD, prepare clarification materials, discuss clarification requests with District staff and the County, discuss requests for additional information, and prepare responses to requests for clarification or information. This task also includes reviewing the draft CUP so that the permit conditions are in accordance with the permit application. The Jones Edmunds Team will provide written comments on the permit to submit to SJRWMD and will assist the County in revising the CUP if necessary.

We assume that the responses will be clarifications of data or assessments previously completed for the CUP and that no assessments, site visits, or in-person meeting will be required for this task. A proposal for a new task order will be prepared if the RAI response requires additional model scenarios or assessments.

## TASK 4.11 DELIVERABLES

- Electronic copies of RAI response(s).

## 4 Evaluation of Potential Permit Consolidation

The Team will use the data collected to develop a PowerPoint presentation outlining the issues, benefits, and potential cost differentials attributable to consolidating the two permits. The evaluation will review the benefits of review under SJRWMD rules versus SWFWMD rules and evaluate the Minimum Flows and Levels (MFL) rule requirements in each District. The Team will participate in a meeting at Marion County offices to present and discuss the findings. The Team will also help the County prepare for and attend a meeting with SWFWMD and/or SJRWMD to discuss the potential to consolidate the WUP and CUP.

## TASK 2 DELIVERABLES

- Electronic copy of Meeting presentation and minutes.

## LIMITATIONS

This scope of services does not include work required to consolidate the County's CUP and WUP. The attached Fee Estimate assumes up to two in-person meetings with the County and up to two in-person meetings with each Water Management District. We assume that the County will provide the following necessary to address the RAI including:

- The \$1,000 application fee to address Comment 1.
- An updated service area boundary to address Comment 2.
- Well locations and proof of property ownership to address Comment 3.
- Plans for septic to sewer projects to address Comment 4a.
- Recent water audits for each service area to address Comment 11a.
- Information regarding County's progress on Water Loss Reduction and timeline to reduce water losses below 10 percent.
- Flow meter calibration results to address Comment 12.
- Information on Lower Floridan Aquifer well construction for alternate source evaluations.

## COMPENSATION

The Jones Edmunds Team proposes to complete the work detailed in Tasks 1 through 4 for a lump-sum fee of \$349,310.60 as shown in Table 1. The basis of payment will be the percentage estimate of completion multiplied by the lump-sum amount and invoiced monthly.

Task No.	Task Description	Total Fee
1	Kick-off Meeting, Data Requests, and Project Management	\$ 30,459.20
2	SWFWMD WUP Modification (WUP 6151)	\$ 145,122.10
3	SJRWMD CUP RAI Response (CUP 4578)	\$ 155,099.70
4	Evaluation of Potential Permit Consolidation	\$ 18,629.60

## EXHIBIT A - SCOPE OF WORK

Task No.	Task Description	Total Fee
Grand Total		\$ 349,310.60

A manhour estimate and subconsultant's scopes of services are attached.

Jones Edmunds appreciates this opportunity to continue to offer our professional engineering services to Marion County and looks forward to working with you on this important project. If you have any questions or wish to discuss any aspect of the proposed Scope of Services, please contact me at (352) 574-4661.

Sincerely,



Patrick Burger, PE

Senior Project Manager

[pburger@jonesedmunds.com](mailto:pburger@jonesedmunds.com)

**PROJECT COST ANALYSIS/FEE QUOTATION WORKSHEET**  
**PROJECT NAME: Marion County WUP Modification and CUP RAI Response**

	<b>Project Activity</b>	<b>Project Officer (Principal Engineer)</b>	<b>Senior Project Engineer (Project Manager)</b>	<b>Senior GIS Analyst (GIS Specialist)</b>	<b>Sr. Ecologist (Sr. Scientist)</b>	<b>Senior Technical Editor (Senior Scientist)</b>	<b>Senior Administrative Assistant (Clerical)</b>	<b>Total Jones Edmunds Manhours</b>	<b>Total Jones Edmunds Labor Cost</b>	<b>Subcontractor &amp; Materials/Costs</b>	<b>Total Fee</b>	<b>% of Project</b>
<b>Task No.</b>	<b>Task Name</b>	<b>\$245</b>	<b>\$210</b>	<b>\$110</b>	<b>\$125</b>	<b>\$125</b>	<b>\$60</b>					
1	Kick-off Meeting, Data Requests, and Project Management	4	76	0	0	0	40	120	\$19,340.00	\$11,119.20	\$30,459.20	8.7%
2	SWFWMD WUP Modification (WUP 6151)	4	48	16	68	20	4	160	\$24,060.00	\$121,062.10	\$137,753.30	39.4%
3	SJRWMD CUP RAI Response (CUP 4578)	8	80	16	8	20	4	136	\$24,260.00	\$130,839.70	\$155,099.70	44.4%
4	Evaluation of Potential Permit Consolidation	8	32	4	0	4	0	48	\$9,620.00	\$9,009.60	\$18,629.60	5.3%
	<b>Total</b>	<b>24</b>	<b>236</b>	<b>36</b>	<b>76</b>	<b>44</b>	<b>48</b>	<b>464</b>	<b>\$77,280.00</b>	<b>\$272,030.60</b>	<b>\$349,310.60</b>	<b>100%</b>



July 29, 2025

Mr. Patrick Burger, PE  
Jones Edmunds & Associates, Inc.  
13545 Progress Blvd, Ste. 100  
Gainesville, Florida 32615

SUBJECT: Proposal to Assist Jones Edmunds with Modification of Marion County Water Use Permit No. 6151 and RAI Response for Consumptive Use Permit No. 4578

Dear Pat:

Please find attached a proposal for Liquid Solutions Group, LLC (LSG) to provide Jones Edmunds & Associates, Inc. (Jones Edmunds) with professional services to assist with the modification of Marion County's Southwest Florida Water Management District (SWFWMD) Water Use Permit (WUP) No. 6151. LSG will also prepare a response to the extensive request for additional information (RAI) from the St. Johns River Water Management District (SJRWMD) for the renewal of Consumptive Use Permit (CUP) No. 4578.

The scope of services also includes an evaluation of the potential consolidation of the County's SWFWMD WUP and SJRWMD CUP No. 4578.

As described in the attached scope LSG will assist by performing several technical evaluations, including developing water demand projections, groundwater modeling analysis, developing the Water Conservation Plan, and participating in meetings with the County, SWFWMD, and SJRWMD. The proposed services will be provided under the terms of a subcontract to be executed.

We look forward to working with you. Please do not hesitate to contact me if you have any questions about the attached proposal.

Sincerely,

A handwritten signature in cursive script that reads "Roberto Denis".

Roberto Denis, PE, BC.WRE  
Managing Member

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**Marion County Utilities Department  
Water Use Permit 6151 Modification and Consumptive Use  
Permit 4578 Renewal  
Scope of Services**

**Background**

Marion County's Water Utility Service area falls within two Water Management Districts — Southwest Florida Water Management District (SWFWMD) and St. Johns River Water Management District (SJRWMD). Floridan aquifer withdrawals for public water supply use in SWFWMD are permitted under Water Use Permit (WUP) No. 6151 and withdrawals in SJRWMD are permitted under Consumptive Use Permit (CUP) No. 4578.

Withdrawals permitted under WUP No. 6151 have exceeded the individual wellfield allocations in the permit and are approaching the total 2042 threshold. A modification of WUP No. 6151 is needed to increase flexibility of the wellfield withdrawals and to increase the overall capacity of the WUP. Marion County is also in the process of renewing SJRWMD CUP No. 4578. The renewal application submitted in September 2023 requests an increase from 7.09 MGD to 8.812 MGD. SJRWMD issued a request for additional information (RAI) on October 5, 2023.

The distributions systems for the WUP and CUP are currently separate; however, the County plans to interconnect the systems in the future. Therefore, as part of this work, the County would like to evaluate the potential benefits of and issues with consolidating the CUP and WUP.

**Scope of Services**

**TASK 1. Data Request and Kickoff Meeting**

LSG will participate in a kickoff meeting with Jones Edmunds and the County to discuss project goals, data needs, and expectations for this project. The kickoff meeting will also be used to discuss the County's goals, timing, and drivers for a permit consolidation. It is anticipated that the County will provide the following information:

- Five-year historical population and water use for each service area (available in the Public Supply Annual Reports)
- Five-year historical reuse data (available in the annual reuse reports)
- Latest water audits for each water system
- Meter calibration reports
- Current Environmental Plan (EMP) and data
- Current Water Conservation Plans
- Planned development buildout phasing and approval information (zoning, ERP, site development plan, etc.)
- GIS of existing service areas and any planned changes
- Well performance data and capacity limitations
- Plans for additional wells, if any
- Reuse system service area and expansion plans
- CUP 4578 demand projections
- CUP 4578 future service area and expansion plans
- CUP 4578 EMP plan and data

Most of this data has been obtained for WUP 6151 as part of the previous WUP Evaluation Project. The purpose of the data request will be to confirm the status of the previously obtained data and receive data for CUP No. 4578. The above data request will be updated following the kickoff meeting. LSG will also participate in up to 12 progress meetings via virtual teleconference.

## **TASK 2. WUP 6151 Water Use Projection Updates and Workshop**

LSG will use SWFWMD's parcel-level population database, planned development information, and historical water use data to prepare updated water use projections through 2045 for the County's service areas.

LSG will prepare a Technical Memorandum (TM) summarizing the water demands and will attend a virtual workshop with SWFWMD staff to present the demand projections. This task includes time to discuss the population and water demand methodology with SWFWMD staff and to revise demand projections based on comments. Following the meeting, LSG will finalize the water demand TM addressing comments from the SWFWMD on the demand projections to the extent feasible before proceeding with Task 4.

### **TASK 2 DELIVERABLES**

- Electronic copy of the Draft TM
- Meeting agenda and minutes
- Electronic copy of the Final TM

## **Task 3. WUP 6151 Groundwater Modeling Plan**

LSG will prepare for and attend a workshop with SWFWMD staff to discuss the groundwater models and scenarios for the WUP modification. The proposed scenarios will be summarized in a Power Point presentation for review by Marion County. The scenarios will be discussed at a virtual meeting before the workshop with the SWFWMD. Comments will be addressed following the workshop and will result in an "approved" evaluation plan which will be used to guide groundwater modeling scenarios executed under Task 5.

### **TASK 3 DELIVERABLES**

- PowerPoint Presentation
- Meeting Minutes
- Final groundwater model evaluation plan

## **Task 4. WUP 6151 Groundwater Modeling**

LSG will evaluate the potential impacts to area MFLs, wetlands, and existing users from the increased water demand through groundwater modeling. LSG will prepare a baseline scenario and up to three future scenarios to evaluate the potential impacts of increased water withdrawals. Development of the scenarios will include:

- Review of the proposed well pumping distribution and capacity to develop the proposed withdrawal scenarios.
- Review of proposed recharge projects for inclusion in the groundwater model scenarios.
- Assessment of impacts to existing MFLs
- Assessment of potential water level impacts to wetlands.



- Upconing analysis to identify the potential for saltwater upconing at proposed pumping rates and the need for additional proposed production wells.

After reviewing the model results, LSG will meet with Jones Edmunds and the County to discuss model scenario results to be used for permitting. Following the meeting, scenario and work with the County to develop model alternatives to offset or mitigate impacts to wetlands and MFLs. The groundwater modeling and impact assessment will be documented in the TM to be included with the permit application. The TM will include:

- A description of the methodology and results.
- Production of drawdown contour maps of the model scenarios for use in assessing environmental impacts.
- A well inventory presenting locations and construction details of existing wells within the 1-ft drawdown contour. The well inventory will be based on information documented in databases maintained by FDEP, the SWFWMD, and SJRWMD. We assume that sites visit or additional efforts to identify or confirm construction information will not be required.

#### TASK 4 DELIVERABLES

- Electronic copies of the groundwater model files.
- Draft and final electronic copies (pdf) of the Groundwater Model and Impact Analysis TM.

#### Task 5. WUP 6151 Water Conservation Plan

LSG will prepare a Standard Water Conservation Plan to support the permit modification. LSG will meet with County staff and discuss information that will be needed to develop the water conservation plan. The Conservation Plan will outline the existing programs in place as well as future programs to conserve water in the County's service area. The team will evaluate current water conservation initiatives, and identify other potential conservation methodologies that the County may consider. The plan will include a water audit. The team will request data from the County to complete the audit using 1 year of data within the past 5 years.

#### TASK 5 DELIVERABLES

- Electronic copy of Draft Conservation Plan
- Electronic copy of Final Conservation Plan

#### Task 6. WUP 6151 Environmental Monitoring Plan

If required, the Team will prepare an Environmental Monitoring Plan. LSG will coordinate with Jones Edmunds to review the existing data, identify potential monitoring locations, and develop a draft monitoring plan.

We assume that Jones Edmunds will identify suitable wetlands, complete any sites visits, provide any wetland assessment required by the District(s), and prepare descriptions of the proposed monitoring locations, frequencies, and methodologies. LSG will provide updated groundwater contour maps with the proposed monitoring locations and other features such as wetlands and County owned property.

TASK 6 DELIVERABLES

- Review of draft and final Environmental Monitoring Plan

**Task 7. WUP 6151 Reclaimed Water Use Summary**

LSG will participate in a virtual meeting with Jones Edmunds and the County to discuss future reclaimed water use. The meeting will also include a discussion of recent (within the past 5-year) and proposed enhancements to reclaimed water infrastructure that could result in increased levels of beneficial reuse. Following the meeting LSG will prepare a TM summarizing historical reclaimed water use and future projected use within the County's service areas.

TASK 7 DELIVERABLES

- Review of draft and final Reclaimed Water Use TM

**Task 8. WUP 6151 WUP Application Package**

The team will prepare a permit application that includes the following:

- Individual Consumptive Use Permit Main Application
- Form E – Public Supply Supplemental
- TM Documenting the results of the Groundwater Modeling and Existing User Impact Analysis
- TM summarizing proposed reclaimed water use
- Location Site Map
- Supporting Tables and Figures
- Standard Water Conservation Plan and Water Audit
- Proposed Environmental Monitoring Plan

The team will prepare the Draft application package for County review. Following County review, the team will upload the documents to the online permitting portal for submittal.

TASK 8 DELIVERABLES

- Electronic copy of the compiled application package.

**Task 9. WUP 6151 Permit Review Services**

This task includes time to coordinate draft permit review with the District(s), prepare clarification materials, discuss clarification requests with District staff and the County, discuss requests for additional information and prepare responses to requests for clarification or information. This task also includes reviewing the draft WUP to ensure that the permit conditions are in accordance with the permit application. LSG will provide written comments on the permit to submit to SWFWMD and will assist the County in revising the WUP if necessary.

We assume that the responses will be clarification of data or assessments previously completed for the WUP and that no new assessments, site visits, or in-person meeting will be required for

this task. A proposal for a new task order will be prepared if the RAI response requires additional model scenarios or assessments related to new topics.

#### TASK 9 DELIVERABLES

- Electronic copies of responses to additional information

#### Task 10. CUP 4578 RAI Response

This task includes time to coordinate with the SJRWMD and prepare a response to the October 5, 2023 RAI. LSG will complete the following subtasks to address the following RAI comments:

##### Task 10.1 RAI Review Meetings and Data Request:

- LSG will participate in a virtual meeting with Jones Edmunds and the County to review the RAI and discuss the approach to address each comment.
- Following the review meeting, LSG will develop a data request for information necessary to complete the RAI response.
- LSG will prepare for and participate in a meeting with SJRWMD to discuss the RAI and proposed plan to address SJRWMD's comments.

#### TASK 10.1 DELIVERABLES

- Electronic copies of Data Request, Power Point Presentation, Meeting Minutes

##### Task 10.2 Demand Projection Updates (RAI Comment 4):

- Review the water demand projections submitted with permit application and obtain 2020 Census data for the service area.
- Prepare a draft TM to document and update the water demand projections submitted with the application package. The water demand projections will be updated to incorporate any changes from planned development information and recent water use data.
- LSG will participate in a review meeting with SJRWMD staff and finalize demand projections.

#### TASK 10.2 DELIVERABLES

- Electronic copies of Water Demand TM and Meeting Minutes

##### Task 10.3 Reclaimed Water Use (RAI Comment 5):

LSG will use the memo prepared for the SWFWMD WUP (Task 8) to respond to the SJRWMD RAI question related to lower quality sources. The budget anticipates the potential for some changes to the memo as a result of discussions with the SJRWMD.

#### TASK 10.3 DELIVERABLES

- Electronic copies of final Reclaimed Water TM

##### Task 10.4 Groundwater Modeling (RAI Comment 6):

- Compile and review water quality data and/or complete upwelling calculations to evaluate

water quality.

- Prepare a groundwater modeling plan to incorporate updated water demand projections and any projected reclaimed return flows or alternate water sources.
- Attend a virtual meeting with SJRWMD to discuss proposed groundwater modeling plan.
- Incorporate SJRWMD comments into the final plan and complete groundwater modeling.
- Prepare a TM documenting the groundwater modeling results and potential for impacts to natural systems and existing users.
- Transmit groundwater modeling files to SJRWMD.

TASK 10.4 DELIVERABLES

- Electronic copies of Groundwater Modeling Plan, Meeting Minutes, and Groundwater Modeling TM

Task 10.5 MFL Offset Plan (RAI Comments 7 and 8):

- Coordinate with Jones Edmunds and Marion County to develop offset strategy and/or an updated Environmental Monitoring Plan.
- Prepare a draft TM documenting the County's offset strategy.

TASK 10.5 DELIVERABLES

- Electronic copies of Offset Plan TM

Task 10.6 Wellfield Operating Plan (RAI Comment 9):

- Prepare wellfield specific allocations and run up to 3 alternate scenarios for review and incorporation into the groundwater modeling to be completed under Task 6. The intent will be to identify pumping constraints for the wellfields and to incorporate flexibility in the County's ability to withdraw from their wellfields.
- LSG will participate in a workshop with Jones Edmunds and Marion County to discuss environmental and operation constraints.
- LSG will prepare Wellfield Optimization Plan that outlines pumping and/or water quality thresholds for the County's wellfields.

TASK 10.6 DELIVERABLES

- Electronic copies of Wellfield Optimization Plan and Meeting Minutes

Task 10.7 Well Interference Plan (RAI Comment 10):

- LSG will prepare a Well Interference Mitigation Plan.
- LSG will participate in one meeting with Jones Edmunds and the County to review and finalize the plan.

TASK 11.7 DELIVERABLES

- Electronic copies of Well Interference Mitigation Plan

Task 10.8 Water Conservation Plan (RAI Comment 11):

LSG will use the memo prepared for the SWFWMD WUP (Task 6) to respond to the SJRWMD RAI question related to water conservation. The budget anticipates the potential

for some changes to the memo as a result of discussions with the SJRWMD. Additionally, LSG will coordinate with the County to incorporate information from the County's Water Loss Reduction Plan to address unaccounted-for water use greater than 10%.

**TASK 11.8 DELIVERABLES**

- Electronic copies of final Water Conservation Plan

**Task 10.9 Local Sources First Analysis (RAI Comment 13):**

In 1998, the Florida Legislature enacted legislation encouraging the use of water from sources nearest the area of use, whenever practicable (paragraph 373.016(4)(a), F.S.). The Legislature also recognized that under certain circumstances the need to transport water from distant sources may be necessary for environmental, technical, or economic reasons (paragraph 373.016(4)(b), F.S.). Pursuant to section 373.223, F.S., LSG will evaluate the six required factors to show that the applicant's withdrawal of water across county boundaries (from Marion to Sumter County) meets the local sources first criteria.

**TASK 11.9 DELIVERABLES**

- Electronic copies of RAI response

**Task 10.10 Preparation of Response Package**

LSG will prepare a written response to the RAI incorporating information from the County and the TMs developed in the above tasks.

**TASK 10.10 DELIVERABLES**

- Electronic copies of RAI Response package.

**Task 11. CUP 4578 Permit Review Services**

This task includes time to coordinate draft permit review with the SJRWMD, prepare clarification materials, discuss clarification requests with District staff and the County, discuss requests for additional information and prepare responses to requests for clarification or information. This task also includes reviewing the draft CUP to ensure that the permit conditions are in accordance with the permit application. LSG will provide written comments on the permit to submit to SJRWMD and will assist the County in revising the CUP if necessary.

We assume that the responses will be clarification of data or assessments previously completed for the CUP and that no new assessments, site visits, or in-person meetings will be required for this task. A proposal for a new task order will be prepared if the RAI response requires additional model scenarios or assessments related to new topics.

**Task 12. Evaluation of Potential Permit Consolidation**

LSG will use the data collected during the permitting processes to develop a PowerPoint presentation outlining the issues, benefits and potential cost differential attributable to consolidating the two permits. The evaluation will review the benefits of review under the SJRWMD rules versus the SWFWMD rules as well as evaluate MFL rule requirements in each

District. LSG will participate in a meeting at Marion County to present and discuss the findings.

LSG will also help the County prepare for and attend a meeting with the SWFWMD and/or SJRWMD to discuss the potential to consolidate the WUP and CUP.

#### TASK 12 DELIVERABLES

- Electronic copy of the PowerPoint presentation
- Meeting presentation and minutes

#### Limitations

This scope of services does not include work required to consolidate the County's CUP and WUP. The fee estimate assumes up to 2 in-person meetings with the County and up to 2 in-person meetings with each Water Management District. It was assumed that the County will provide information necessary to address the RAI, including:

- The \$1,000 application fee to address Comment 1.
- An updated service area boundary to address Comment 2.
- Well locations and proof of property ownership to address Comment 3.
- Plans for septic to sewer projects to address Comment 4 a.
- Recent water audits for each service area to address Comment 11a.
- Information regarding County's progress on Water Loss Reduction and timeline to reduce water losses below 10%.
- Flow meter calibration results to address Comment 12.
- Information on Lower Floridan Aquifer well construction for alternate source evaluations.

#### Compensation

LSG proposes to complete the work detailed in Tasks 1 through 12 for a lump-sum fee of \$271,550.60 as shown in Table 1 below. The basis of payment will be the percentage estimate of completion multiplied by the lump-sum amount and invoiced monthly.

**Table 1**  
**Fee Table**

Task	LSG Labor				Total Budget
	Engineer P11	Engineer P9	Geologist P8	Labor Hours	
	\$245.00	\$209.30	\$194.35		
Task 1 –Data Request, Kickoff Meeting, and Project Management	20		32	52	\$11,119.20
Task 2 – Water Use Projection Updates	12		80	92	\$18,488.00
Task 3 – Groundwater Modeling Plan	10		18	28	\$5,948.30
Task 4 – Groundwater Modeling	14	36	204	254	\$50,612.20
Task 5 – Water Conservation Plan	6		24	30	\$6,134.40
Task 6 – Environmental Monitoring Plan	4		40	44	\$8,754.00
Task 7 – Reclaimed Use Summary	8		40	48	\$9,734.00
Task 8 – WUP 6151 Application Package	8		44	52	\$10,511.40
Task 9 – WUP 6151 Permit Review Services	6	6	40	52	\$10,499.80
Task 10 – CUP 4578 RAI Response					
Task 10.1 – RAI Review Meetings, Data Request	16	0	22	38	\$8,195.70
Task 10.2 – RAI Comment 4, Water Demand Projections	12		80	92	\$18,488.00
Task 10.3 – RAI Comment 5, Reclaimed Water Use/ Alternate Source Analysis	2		8	10	\$2,044.80
Task 10.4 – RAI Comment 6, Groundwater Modeling	18	24	208	250	\$49,858.00
Task 10.5 – RAI Comments 7-8, Offset Plan	8		40	48	\$9,734.00
Task 10.6 – RAI Comment 9, Wellfield Optimization Plan	8		40	48	\$9,734.00
Task 10.7 – RAI Comment 10, Well Interference Mitigation Plan	8		36	44	\$8,956.60
Task 10.8 – RAI Comment 11, Updated Conservation Plan	6		16	22	\$4,579.60
Task 10.9 – RAI Comment 13, Sumter County Analysis	2		4	6	\$1,267.40
Task 10.10 – RAI Package	8		28	36	\$7,401.80
Task 11 – CUP 4578 Permit Review Services	6	6	40	52	\$10,499.80
Task 12 – Evaluation of Consolidation	24		16	40	\$8,989.60
Total Hours and Costs	206	72	1060	1338	\$271,550.60