



Marion County Board of County Commissioners

Procurement Services

2631 SE Third St.
Ocala, FL 34471
Phone: 352-671-8444
Fax: 352-671-8451

CHANGE ORDER FORM

This form is to be used when a Purchase Order has a change in scope, amount or date. Amounts exceeding 10% of original award requires BCC approval. Some fields may not be applicable and may be left blank. Use your cursor to hover over a field for help.

Date 03/02/2026 Department Utilities Change Order # 3

Additional Days Only Is Board Action Required? Yes

Bid/Contract/Quote Number & Project Title:
22Q-132

PO Number: 2500176

Contract Amount: \$2,997,413.00

Have you sent Procurement the revised P&P Bond? Yes No N/A

Is the change order amount from Contingency? Yes No

Contractor/Vendor (Name & Address):

David Rasmussen, P.E. - Ardurra Group Inc.
405 Golfway West Dr., Suite 201A
St. Augustine, FL 32095

GL Account Number (ORG/OBJECT):
ZF448536 - 562102

Project Account Number (If applicable):
UTC000101

Requesting Amount of Contingency:

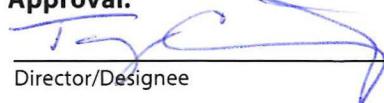
JUSTIFICATION & DESCRIPTION OF CHANGE

This change order is to perform additional services for the SW Regional WRF (aka Oak Run WWTF). Additional operation and maintenance improvements include converting an existing peak shaving tank to an equalization tank, incorporate odor control improvements, relocate biosolids building, relocate digester, construct a new process unit, new filters, new contact basins, a new reject pond, a new DRA, and new drives within the site.

* BACKUP DOCUMENTATION MUST BE ATTACHED CLARIFYING CHANGE*

Original Ordered Amount:	\$1,998,836.00
Current Ordered Amount (Not the balance):	\$1,956,346.00
The PO will be increased/decreased by this change order in the amount of: (Do not put contingency amount)	Increase <input checked="" type="checkbox"/> Decrease <input type="checkbox"/>
The new PO amount including this change order will be: (PO amount will not change if it comes from contingency)(auto calculated)	\$2,954,923.00
Contract time will be Increased/decreased by _____	DAYS
Prior Substantial Completion Date	Revised Substantial Completion Date
Prior Final Completion Date	Revised Final Completion Date

Approval:

 03/05/26
Director/Designee Date

Project Mgr. Date

Administration (If Applicable) Date

Procurement: Date

BCC Approval (when applicable):

Chairman, BCC Date

Attest: Clerk of Court Date

County Administrator Date

AMENDMENT #1

JANUARY 27TH, 2026

THIS AMENDMENT IS ISSUED PURSUANT TO THE AGREEMENT FOR ENGINEERING DESIGN SERVICES FOR THE OAK RUN WWTF EXPANSION AND EFFLUENT MANAGEMENT BETWEEN MARION COUNTY UTILITIES (MCU) AND THE ARDURRA GROUP, INC., (CONTRACT NO. 22Q-132, TASKS 1 AND 2) WHICH IS INCORPORATED HEREIN BY THIS REFERENCE

Scope of Services for Professional Engineering Services for the Oak Run Wastewater Treatment Facility Expansion and Effluent Management Project

Additional Planning and Design Services

Article A. Project Purpose

The purpose of this Amendment is to authorize and direct Ardurra Group, Inc. (CONSULTANT or Engineer of Record or EOR) to perform additional services for the Oak Run Wastewater Treatment Facility (OR WWTF) to be referred to as "Water Reclamation Facility" Expansion Project (PROJECT) for the Marion County Utilities (OWNER or MCU).

On December 4, 2024, the Project was put on hold at 30 percent design by MCU to address odor nuisance concerns, plant operations challenges, and to evaluate the current site as a buildout site for the Southwest Service Area. The CONSULTANT was tasked by MCU to complete a series of Technical Memoranda that would assist MCU in additional planning of the OR WWTF expansion.

New facility-wide operation and maintenance concerns were identified by operations staff since the project's Notice to Proceed (NTP). On April 4, 2025, MCU requested additional operation and maintenance improvements design services to convert the peak shaving tank to an equalization tank, incorporate odor control improvements, landscaping buffer, biosolids building curtains and miscellaneous site-wide upgrades.

Additional design services are included in this Amendment to construct new biosolids facilities, reject pond and associated infrastructure.

On December 2, 2025, MCU requested an Odor Evaluation be conducted at the Oak Run WWTF to address odor concerns with the surrounding neighborhood. This Amendment includes a comprehensive odor study to address long-term odor concerns.

This Amendment covers additional design services to incorporate the changes.

Article B. Scope of Services

This scope of services covers tasks associated with the following:

- Task 1: Additional Project Management
- Task 2: Additional Planning Services
- Task 3: Additional Environmental and Permitting Services
- Task 4: Additional Design Services – O&M Improvements
- Task 5: Additional Design Services - Expansion
- Task 6: Additional Bid Phase Services – Expansion
- Task 7: Grant Administration and Funding Assistance Services
- Task 8: Odor Evaluation

Task 1: Additional Project Management

Task 1.1: Additional Project Management

This task includes additional project management services as follows:

- Attend seventeen (17) meetings during the development of the TMs and landscaping plans. Prepare and issue agendas and meeting minutes and conduct follow-up to actionable items.
- Manage the new work throughout the project including managing schedule revisions, scope coordination, subconsultant coordination, and monthly reports to include the additional work.
- Prepare the scope and fees to support the additional work.
- Prepare Landscape Concept Design for MCU consideration and constituency presentations.
- Southwest Service Area Presentation for Board of County Commissioners

Task 2: Additional Planning Services

Task 2.1: Technical Memorandum #1

MCU expressed concern regarding operating the plant without equalization. The existing equalization tank was converted to a peak shaving tank in 2018. Operations staff have indicated the variable flows into the plant impact the process and an equalization tank would improve process performance. CONSULTANT developed a Technical Memorandum evaluating the current operations of the existing surge tank, converting the surge tank to an equalization tank, and treating the odorous air from the entire basin which included the following as part of Task 2.1.

- Reviewed and evaluated converting the existing surge tank to an equalization tank.
- Reviewed and evaluated modifications to the existing odor control system to treat the equalization tank.

The Technical Memorandum was submitted to MCU for review and comment. Per MCU, a final TM will not be required.

Task 2.2: Technical Memorandum #2

CONSULTANT recommended installing a rotary drum thickener as part of the O&M improvements project. MCU indicated a new larger centrifuge was recently purchased and requested the CONSULTANT evaluate its use at the OR WWTF without installing a rotary drum thickener. The CONSULTANT developed a Technical Memorandum evaluating the use of the new centrifuge at the OR WWTF as well as a Utility Operations system-wide evaluation for rotation scheduling of centrifuges.

The Technical Memorandum was submitted to MCU for review and comment. Per MCU, a final TM will not be required.

Task 2.3: Technical Memorandum #3

CONSULTANT developed a Technical Memorandum to evaluate the feasibility of utilizing the existing Oak Run facility property owned by MCU as well as the undeveloped surrounding land that could be incorporated into the plan to serve as the buildout location for treatment of wastewater in the southwest service area. CONSULTANT completed the following as part of Task 2.3.

- Reviewed and evaluated two (2) biological process alternatives to expand Oak Run WWTF from 1.6 MGD to 20 MGD.

- Developed and reviewed generalized layouts of the facilities considering space needs, land terrain, drainage, access and function.
- Reviewed, evaluated, and provided a phased capacity increase approach to achieving ultimate build-out capacity.

The Technical Memorandum was submitted to MCU for review and comment. Per MCU, a final TM will not be required.

Task 3: Additional Environmental and Permitting Services

Task 3.1: Additional Environmental and Permitting Services

The additional property acquired will require the following items to be included:

- Landscape buffer waiver submittal. CONSULTANT shall prepare and submit the application form and supporting documents to the Development Review Committee (DRC) for approval to have no landscape buffer along the newly acquired property perimeter. The existing vegetation is intended to remain in place for natural buffer effect until such time that the facility requires use of the space. Item includes attendance at one (1) DRC meeting.
- SWFWMD ERP Minor Modification. With the project extending further west to SW 95th Circle, the project may use established Environmental Resource Permit #25303 issued by SWFWMD. CONSULTANT shall prepare and submit the application with supporting documents for permit approval.

Task 4: Additional Design Services – O&M Improvements

At MCU's request, the following scope will now be included as part of the O&M Improvements project:

1. Facility site lighting modifications.
2. Pre-purchase of the tertiary filters.

Task 4.1: Revised O&M Improvements Design Submittal

CONSULTANT will complete the following as listed within this Task 4.1.

1. Revise, update, and submit Issued for Bid (IFB) drawings, specifications, and Opinion of Probable Construction Cost (OPCC).

2. Conduct internal review meeting of revised O&M Improvements Design
3. Schedule and facilitate a review workshop of the IFB submittal with MCU, prepare agenda, issue meeting minutes, and address comments to be incorporated into the final bid documents set.

Task 5: Additional Design Services – Expansion

At MCU's request, the following scope of items will be included as part of the Expansion project:

1. Conversion of surge tank to equalization tank and odor control improvements.
2. New reject pond and reject pump station.
3. New pre-stressed concrete digester.
4. New Biosolids Building with associated piping and equipment to accommodate a mobile centrifuge unit and conveyor system for truck loading.
5. New in-plant lift station to receive drain flows from the new digester and biosolids building.
6. Utility relocation, construction sequencing, and maintenance of plant operations to accommodate the new structures.
7. Decommissioning of the existing digester and biosolids processing area.
8. Site design of the new facilities including new access driveway, grading, drainage, landscape buffers, facility gate and fencing, and stormwater pond.
9. Yard piping, valves, and appurtenances to accommodate the additional design.
10. Update SCADA system architecture and P&IDs to adhere to MCU's SCADA standards using Data Flow System HMI and RTUs.

Task 5.1: Revised 30 Percent Expansion Design Submittal

CONSULTANT completed the draft 30 percent design on December 4, 2024. The 30 percent design documents will be revised to reflect the additions and changes requested by MCU. The CONSULTANT will revise the 30 percent design submittal which will include the following within this Task 5.1.

1. Prepare revised and updated 30 percent design drawings and OPCC.

2. Conduct an internal review of the revised 30 percent design documents.
3. Submit revised 30 percent design deliverables as outlined in the Scope of Services dated August 2, 2024, and conduct additional 30% design review workshop with MCUD.

Task 5.2: 60 Percent Expansion Additional Design

CONSULTANT will include the additional scope items listed in Task 5 in the 60 percent design submittal. Deliverables will be submitted as outlined in the Scope of Services dated August 2, 2024.

Task 5.3: 90 Percent Expansion Additional Design

CONSULTANT will include the additional scope items listed in Task 5 in the 90 percent design submittal. Deliverables will be submitted as outlined in the Scope of Services dated August 2, 2024.

Task 5.4: Bid Documents Expansion Additional Design

CONSULTANT will include the additional scope items listed in Task 5 in the Bid documents submittal. Deliverables will be submitted as outlined in the Scope of Services dated August 2, 2024. Bid documents will include logical listing of selected plant components to allow separation and possible elimination of some components (i.e. new biosolids dewatering facility, new access driveway, etc.) based on value engineering and CIP budget.

Task 6: Additional Bid Phase Services – Expansion

Task 6.1: Additional Bid Phase Services - Expansion

CONSULTANT will respond in writing to questions from bidders related to the additional scope items listed in Task 5. CONSULTANT will prepare addenda and coordinate with OWNER as outlined in the Scope of Services dated August 2, 2024.

Task 7: Grant Administration and Funding Assistance Services

Task 7.1: Grant Administration and Funding Assistance Services

CONSULTANT will assist the OWNER in identifying and securing funding for the Oak Run WWTF Expansion by preparing and submitting compelling grant applications to various federal and state agencies.

CONSULTANT will provide close collaboration with OWNER and proactively identify and evaluate a wide range of potential funding sources. CONSULTANT will target programs such as:

1. State Revolving Fund (SRF)
2. Community Development Block Grant – Disaster Recovery (CDBG-DR)
3. Hazard Mitigation grant Program (HMGP)
4. Resilient Florida (RIF) Program
5. State Water Quality Grants
6. Various USDA opportunities

CONSULTANT will coordinate a funder’s meeting to facilitate early engagement of upcoming proposals. CONSULTANT will assist the OWNER in gathering necessary supporting documentation for grant submission. CONSULTANT will prepare and submit complete applications on the OWNER’s behalf.

Task 8: Odor Evaluation

Task 8.1: Odor Evaluation

CONSULTANT, and SUBCONSULTANT, will perform a comprehensive odor study of the existing Oak Run WRF and provide recommendations to improve long-term odor improvements at the facility. The scope for this Work is included in **Attachment A**.

Article C. Qualifications, Exceptions, and Assumptions

The following qualifications, exceptions and assumptions were used in the development of this Amendment:

- Services to support additional land acquisition are not included.
- A new Headworks would be required to accommodate an expansion beyond 3.5 MGD AADF. This Amendment does not include provisions for a future Headworks.
- The equalization tank will be capable of equalizing flows up to 2.35 MGD AADF.
- Demolition drawings for existing biosolids structure or sludge digester tankage/piping, etc. are not included.

Article D. Compensation Provisions

As compensation for providing the services described within Amendment #01, MCU shall pay CONSULTANT the additional lump sum fee of **\$998,577.00** as generally defined as identified on **Attachment A** and shall not be exceeded without an approved amendment to the project Agreement.

Article E. Period of Service

The estimated completion of this task order is twelve (12) months from execution.

Article F. Authorized Representatives

The Authorized Representatives designated below are authorized to act with respect to this Task Order. Communications between the parties shall be through the Authorized Representatives:

For MARION COUNTY UTILITY	For ARDURRA GROUP, INC.
Name: Tony Cunningham, P.E. Utility Director	Name: Kart Vaith, P.E. Chief Strategy Officer
Address: 11800 SE US Hwy 441 Belleview, FL 34420	Address: 405 Golfway West Drive, Suite 201A St. Augustine, FL 32085
Telephone: 352-307-4625	Telephone: 904.562.2185

Attachment A
Marion County Utilities
Amendment 1 - Oak Run WWTF Expansion and Effluent Management Project
Fees



Task	Senior QA	Senior Project Manager	Senior Professional Engineer	Professional Engineer	Engineering Intern II	Senior CADD Designer	CADD Designer	Administrative	Total Hours	Total Cost
Rates	\$245.00	\$230.00	\$195.00	\$165.00	\$112.00	\$135.00	\$125.00	\$65.00		
Task 1 Additional Project Management										
Task 1.1 - Additional Project Management										
Attend seventeen (17) meetings during the development of the TMs and landscaping plans. Prepare and issue agendas and meeting minutes and conduct follow-up to actionable items.	10	17	51	0	0	0	0	17	95	\$ 17,410.00
Manage the new work throughout the project including managing schedule revisions, scope coordination, subconsultant coordination, and monthly reports to include the additional work.	0	60	0	0	0	0	0	60	120	\$ 17,700.00
Prepare the scope and fees to support the additional work.	4	8	12	0	0	0	0	8	32	\$ 5,680.00
Prepare Landscape Concept Design for MCU consideration and constituency presentations.	4	4	16	24	0	4	8	0	60	\$ 10,520.00
Southwest Service Area Presentation for BOCC.	4	4	8	20	0			8	44	\$ 7,280.00
Subtotal Task 1	22	93	87	44	0	4	8	93	351	\$ 58,590.00
Task 2 Additional Planning Services										
Task 2.1 - Technical Memorandum #1										
	12	0	30	50	20	0	0	2	114	\$ 19,410.00
Task 2.2 - Technical Memorandum #2										
	8	2	32	34	25	0	0	2	103	\$ 17,200.00
Task 2.3 - Technical Memorandum #3										
	14	0	40	60	20	8	0	2	144	\$ 24,580.00
Subtotal Task 2	34	2	102	144	65	8	0	6	361	\$ 61,190.00
Task 3 Additional Environmental and Permitting Services										
Task 3.1 - Additional Environmental and Permitting Services										
Landscape Buffer Waiver Submittal	0	2	2	0	2	0	0	1	7	\$ 1,139.00
SWFWMD ERP Minor Modifications Submittal	0	2	4	4	16	0	0	0	26	\$ 3,692.00
Subtotal Task 3	0	4	6	4	18	0	0	1	33	\$ 4,831.00
Task 4 Additional Design Services - O&M Improvements										
Task 4.1 - Revised O&M Improvements Design Submittals										
Facility Site Lighting	4	16	10	28	0	0	0	0	58	\$ 11,230.00
Remove RDT/Add Filters	0	0	6	8	4	4	8	0	30	\$ 4,478.00
OPCC	4	0	0	6	8	0	0	0	18	\$ 2,866.00
Internal Review	12	0	4	2	0	0	0	0	18	\$ 4,050.00
Review Meeting	4	0	4	2	0	0	0	0	10	\$ 2,090.00
Subtotal Task 4	24	16	24	46	12	4	8	0	134	\$ 24,714.00

Task 5 Additional Design Services - Expansion										
Task 5.1 - Revised 30 Percent Expansion Design Submittal										
Conversion of surge tank to equalization tank and odor control improvements.	12	15	25	56	30	6	40	4	188	\$ 29,935.00
New reject pond and reject pump station.	4	6	12	20	20	8	6	0	76	\$ 12,070.00
New pre-stressed concrete digester.	6	6	6	8	8	4	6	0	44	\$ 7,526.00
New Biosolids Building with associated piping and equipment to accommodate a centrifuge and conveyor system for truck loading.	16	12	40	36	48	24	16	0	192	\$ 31,036.00
New in-plant lift station to receive drain flows from the new 4-stage biological process tank, digester and biosolids building.	6	2	16	12	24	12	12	0	84	\$ 12,838.00
Utility relocation, construction sequencing, and maintenance of plant operations to accommodate the new structures.	4	2	4	8	8	4	8	0	38	\$ 5,976.00
Site design of the new facilities including new access driveway, grading, drainage, landscape buffers, and stormwater pond.	4	4	14	32	18	6	16	0	94	\$ 14,736.00
Yard piping, valves and appurtenances to accommodate design revision.	4	2	4	6	6	4	0	0	26	\$ 4,422.00
SCADA Update	8	18	44	24	36	36	0	0	130	\$ 23,500.00
Subtotal Task 5.1	64	67	165	202	162	104	104	4	872	\$ 142,039.00
Task 5.2 - 60 Percent Expansion Additional Design										
Conversion of surge tank to equalization tank and odor control improvements.	12	15	25	56	30	6	40	2	186	\$ 29,805.00
New reject pond and reject pump station.	8	12	32	60	24	16	60	0	212	\$ 33,208.00
New pre-stressed concrete digester.	6	16	36	48	32	16	24	0	178	\$ 28,834.00
New Biosolids Building with associated piping and equipment to accommodate a centrifuge and conveyor system for truck loading.	16	24	82	46	60	36	30	0	294	\$ 48,350.00
New in-plant lift station to receive drain flows from the new 4-stage biological process tank, digester and biosolids building.	4	8	16	24	12	4	16	0	84	\$ 13,784.00
Utility relocation, construction sequencing, and maintenance of plant operations to accommodate the new structures.	4	4	8	12	16	8	8	0	60	\$ 9,312.00
Site design of the new facilities including new access driveway, grading, drainage, landscape buffers, and stormwater pond.	4	8	44	80	24	8	4	0	172	\$ 28,868.00
Yard piping, valves and appurtenances to accommodate design revision.	8	4	6	12	6	4	0	0	40	\$ 7,242.00
SCADA Update	8	24	84	76	124	124	0	0	316	\$ 53,140.00
Subtotal Task 5.2	70	115	333	414	204	222	182	2	1,542	\$ 252,543.00
Task 5.3 - 90 Percent Expansion Additional Design										
Conversion of surge tank to equalization tank and odor control improvements.	12	10	25	48	20	6	40	2	163	\$ 26,215.00
New reject pond and reject pump station.	4	8	8	24	28	8	8	0	88	\$ 13,556.00
New pre-stressed concrete digester.	4	6	12	12	22	12	6	0	74	\$ 11,514.00
New Biosolids Building with associated piping and equipment to accommodate a centrifuge and conveyor system for truck loading.	12	24	36	40	40	16	26	0	194	\$ 31,970.00
New in-plant lift station to receive drain flows from the new 4-stage biological process tank, digester and biosolids building.	6	2	8	12	8	4	12	0	52	\$ 8,406.00
Utility relocation, construction sequencing, and maintenance of plant operations to accommodate the new structures.	2	2	4	6	12	4	12	0	42	\$ 6,104.00
Site design of the new facilities including new access driveway, grading, drainage, landscape buffers, and stormwater pond.	8	4	20	32	16	4	6	0	90	\$ 15,142.00
Yard piping, valves and appurtenances to accommodate design revision.	4	2	6	4	4	4	0	0	24	\$ 4,258.00
SCADA Update	8	24	34	48	0	36	0	0	150	\$ 26,890.00
Subtotal Task 5.3	60	82	153	226	150	94	110	2	877	\$ 144,055.00
Task 5.4 - Bid Documents Expansion Additional Design										
Subtotal Task 5.4	20	30	36	42	90	44	24	12	298	\$ 45,550.00
Subtotal Task 5	214	294	687	884	606	464	420	20	3,589	\$ 584,187.00

Task 6 Additional Bid Phase Services - Expansion											
Task 6.1 - Additional Bid Phase Services - Expansion	2	24	0	16	40	0	22	12	116	\$	16,660.00
Subtotal Task 6	2	24	0	16	40	0	22	12	116	\$	16,660.00
Task 7 Grant Administration and Funding Assistance Services											
Task 7.1 - Grant Administration and Funding Assistance Services	6	28	0	35	42	0	0	25	136	\$	20,014.00
Subtotal Task 7	6	28	0	35	42	0	0	25	136	\$	20,014.00
Task 8 Odor Evaluation											
Task 8.1 - Odor Evaluation	4	18	0	92	24	0	0	44	182	\$	25,848.00
Subtotal Task 7	4	18	0	92	24	0	0	44	182	\$	25,848.00
LABOR SUBTOTAL	306	479	906	1265	807	480	458	201	4902	\$	796,034.00
% Labor per Category	6%	10%	18%	26%	16%	10%	9%	4%	100%		
Survey Sub-Consultant										\$	28,415.00
Environmental Sub-Consultant										\$	4,200.00
Odor Evaluation Sub-Consultant										\$	169,928.00
GRAND TOTAL - NOT TO EXCEED										\$	998,577.00

ATTACHMENT B:
ODOR AND CORROSION CONTROL PROGRAM
DEVELOPMENT & IMPLEMENTATION PROPOSAL

V&A Project No. 25-0510

January 13, 2026

Ms. Kathryn Stephens, PE
Ardurra
405 Golfway West Dr., Suite 201
St Augustine, FL 32095

Subject: Marion County, Oak Run WWTP Odor and Corrosion Control Program Development & Implementation, Revised Proposal

Dear Ms. Stephens:

Thank you for requesting a proposal for initial development of a Marion County Utilities (MCU) Oak Run WWTP Odor and Corrosion Control Program (OCCP) and technical support during program implementation by MCU. As discussed during V&A's December 4th meeting with MCU staff and the December 11th meeting with Dave Hunniford of V&A and Ardurra staff, the ultimate goal of this project is to upgrade MCU's existing Oak Run WWTP odor control program to further mitigate public odor complaints while also focusing on hydrogen sulfide (H₂S) induced corrosion mitigation. V&A will concurrently also develop a complimentary OCCP for the Oak Run WWTP Collection System, in conjunction with Clymer Farner Barley (CFB), Halff and MCU, that would be implemented simultaneously with the Oak Run WWTP expansion design and construction activities over the next couple years.

V&A anticipates the following three phases of the WWTP OCCP development and implementation:

- Phase 1: V&A will work with MCU staff to establish baseline H₂S, dissolved sulfide (DS), pH, turbulence and corrosion conditions within the headworks, surge tank, digester, aeration basin, and biosolids dewatering area. V&A will also work with MCU staff to establish baseline vapor phase ammonia (NH₃) /amine concentrations within and nearby the biosolids dewatering area. Influent DS data will be compared to the predicted value established by the V&A as part of the sulfide modeling of the collection system Force Main (FM) network. V&A, Ardurra, and MCU will use the background information - including complaint history and ongoing baseline testing - to identify current H₂S and NH₃ problem locations across the WWTP due to fugitive odorous emissions and/or severe corrosion. As part of the field data collection, performance of existing odor control systems, both upstream liquid phase and headworks vapor phase odor control system (VPOCS), will be assessed. This phase is expected to take 3-4 months.
- Phase 2: V&A will work with MCU and Ardurra staff to develop short (< 6 months), medium (6 months – 2 years), and long range (2-5 years) action plans for reducing H₂S, DS, NH₃/amine levels and turbulence in the preliminary treatment and biosolids processes along with preventing fugitive emissions of foul air from odor problem infrastructure as identified in Phase 1 (likely headworks, surge/EQ tanks, digester, biosolids dewatering). V&A expects to identify possible operational changes, immediate to long term, with MCU staff that would reduce DS generation, H₂S release, and infrastructure corrosion rates. V&A will develop, in collaboration with MCU and Ardurra staff, H₂S mitigation goals, based on both odor and corrosion objectives. This phase is expected to take 1-1.5 months.
- Phase 3: V&A will provide technical support to MCU and Ardurra staff for implementation of agreed upon action plans. Anticipated technical support includes organizing and evaluating trials of new treatment technologies, evaluating ongoing monitoring data (H₂S, DS, pH, NH₃) – including fence line H₂S & NH₃ monitoring - to establish impact of action plan steps on offsite

odor plumes and treatment records, technical support for expansion design efforts associated with identified fugitive odorous emissions and/or areas of H₂S induced corrosion, specification development for new vapor phase treatment equipment, field visits to support implementation plans, quarterly reports documenting progress against action plans, and attending meetings with MCU staff and treatment technology vendors. This phase is expected to involve upfront design support and then odor control performance evaluation and optimization services once the Oak Run WWTP expansion is online.

Per your request, the following is our proposed scope of work and fee basis for the three phases of services:

Scope of Work

Task | Description

1. **Phase 1: Project Management:** Monitor and report project progress and changes, manage the quality of all work activities and project deliverables, and execute the project based on the defined scope, schedule, and budget. Submit monthly invoices and communicate project updates.

This task includes attending virtual and in-person progress meetings as needed for Phase 1. It is anticipated that meeting frequency will be at least twice monthly; so 4 hours per month of V&A staff time is allocated for meetings in the attached Resource Allocation Estimate.

2. **Phase 1: Background Review:** V&A will review available background information and previous reports as made available by MCU and Ardurra. This will include plan and profile drawings, engineering reports, current odor control vendor reports and invoices, H₂S data collected by MCU, and odor complaint history for area surrounding the Oak Run WWTP. V&A will coordinate with MCU and Ardurra to identify potential odor hotspots within the WWTP (this will be coupled with collection system odor hot spots identified near the WWTP as part of the collection system OCCP project).
3. **Phase 1: Kickoff Workshop and Field Investigation:** V&A personnel will conduct a one-day kickoff workshop with MCU operations and prime consultant staff to discuss their relevant observations related to known collection system and WWTP odor issues including characterization of observed odors, odor observations under various weather conditions, observation of likely odor sources, and any other relevant observations.

This will be followed by a one day field tour with MCU operations staff of WWTP. During this field visit V&A engineers will collect vapor phase grab sample data for H₂S, mercaptans, ammonia, and amines and liquid phase grab sample data for DS, pH, ORP, and temperature and train MCU staff to perform this testing (in order that MCU staff can collect much of the ongoing data needed for the OCCP). V&A engineers will deploy up to five (5) AcruLog H₂S PPM monitors, (4) AcruLog Differential Pressure monitors, and two (2) AcruLog NH₃ PPM monitors at key preliminary and biosolids treatment process locations for a two week period. V&A will also deploy up to four (4) AcruLog H₂S PPB monitors at fence line locations. V&A will return for a single day at the end of the monitoring period to retrieve the monitors. As part of the field visit V&A engineers will evaluate corrosion of concrete and metal infrastructure and wastewater turbulence using the V&A VANDA Indexes shown on pages 8-10 of this proposal. V&A engineers will also evaluate operation and performance of upstream liquid phase and onsite vapor phase odor treatment equipment.

4. **Phase 1: Technical Memorandum:** V&A will summarize the results of the above tasks (2-3) in a Technical Memorandum (TM). V&A will compile and analyze all reported observations and continuous monitoring data, and present the results in figure, graph and tabular formats. Data will include that gathered by MCU staff for a minimum of five weeks after the week of Task 3. Key findings for each target process area will be discussed. V&A will respond to up to one (1) round of

comments. V&A will provide all raw data in electronic format for the Client's records

5. **Phase 2: Project Management:** Monitor and report project progress and changes, manage the quality of all work activities and project deliverables, and execute the project based on the defined scope, schedule, and budget. Submit monthly invoices and communicate project updates.

This task includes attending virtual and in-person progress meetings as needed for Phase 2. It is anticipated that meeting frequency will be at least once monthly; so 2 hours per month of V&A staff time is allocated for meetings in the attached Resource Allocation Estimate.

6. **Phase 2: Operational Factors & Technology Evaluation:** V&A will use the results of the field investigation and ongoing monitoring data to evaluate the various operational changes and treatment alternatives for the WWTP. Operational changes will be a key focus of possible corrective action – whether immediate or as part of the expansion design. V&A will collaborate with MCU and Ardurra staff in this regard.

A technology evaluation of liquid and vapor phase treatment technologies will also be performed, including an analysis of odor control performance, footprint, operation and maintenance requirements, and life cycle costs. Technologies to be evaluated include liquid phase treatment (including pH adjustment, nitrate addition, iron salts/PRISC, oxygen injection, and oxidizers) and biological vapor phase treatment (including biotrickling filters, vendor supplied biofilters, constructed organic media biofilters, carbon adsorption, and chemical scrubbing).

A matrix will be developed to summarize the results of the operations and technology evaluation.

7. **Phase 2: Action Plan Development Workshop:** V&A will conduct a one day workshop with MCU staff and Ardurra to review information from Task 6 and discuss/rank possible short, medium, and long term actions with the goal of developing key actions for each time period that would build upon each other and reduce opportunity for H₂S and NH₃ release at the WWTP.
8. **Phase 2: Technical Memorandum:** V&A will summarize the results of the above tasks (6-7) in a Technical Memorandum (TM) and collaborate with Ardurra to provide cost estimates for implementing proposed short, medium, and long term action plans. V&A will respond to up to one (1) round of comments.
9. **Phase 3: Project Management:** Monitor and report project progress and changes, manage the quality of all work activities and project deliverables, and execute the project based on the defined scope, schedule, and budget. Submit monthly invoices, communicate project updates, and issue quarterly reports summarizing progress against action plans.

This task includes attending virtual and in-person progress meetings as needed for Phase 3. It is anticipated that meeting frequency will be at least monthly during design support and performance monitoring/optimization activities; so 2 hours per month of V&A staff time is allocated for meetings in the attached Resource Allocation Estimate.

10. **Phase 3: OCCP Implementation Technical Services:** V&A will assist MCU and Ardurra staff in the implementation of the action plans and ongoing optimization of the WWTP OCCP. This may include monthly meetings with MCU and vendors to establish treatment goals, review operational parameters such as influent average daily flow (ADF), biosolids daily production, chemical dose rates and vapor phase airflows/inlet & outlet H₂S and NH₃, review testing and maintenance program activity, and review performance data versus OCCP H₂S and NH₃ treatment goals for each control point. Periodic site visits may be necessary to evaluate new odor complaints, consult with MCU and Ardurra staff on modifications to action plans, and coordinate WWTP activities with the Collection System OCCP. Hours shown on attached Resource Allocation Estimate are for initial design support and one year of WWTP OCCP implementation & evaluation support.

Assumptions

The following is a list of additional assumptions used to develop V&A's scope of work.

- V&A will submit monthly invoices in electronic format via email. Time spent submitting the invoice via a different method may incur additional charges.

Exclusions and Limitations

The following items, unless otherwise indicated, are not included in the scope of work:

- Traffic Control Plans and Permits
- Traffic Control Measures, including but not limited to sign boards, cones, and flaggers
- Project Specific Health and Safety Plan
- Encroachment Permits
- Permitting
- Notification
- Bonds
- Shutdown, Dewatering, and Cleaning of Structures
- Excavations
- Structure Access, including but not limited to ladders, scaffolding, and cranes
- Confined Space Entry
- Supplied Air

Schedule

V&A anticipates the following schedule for completion of the scope of work:

Task	Duration
Phase 1:	12-16 weeks
Phase 2:	4-6 weeks
Phase 3 - Design:	3 months
Phase 3 - WWTP Online	1 year

Fee Proposal

V&A proposes to complete the above tasks on a time and materials basis as follows, at a total cost not to exceed **\$169,928**, with terms of Net 15 days.

Phase	Cost
Phase 1:	\$ 67,162
Phase 2:	\$ 40,496
Phase 3:	\$ 62,270
TOTAL	\$ 169,928

This fee is valid for 90 days from the date of this proposal. The scope of work was developed as a result of our discussions and represents our mutual understanding.

Estimated costs for the above project scope are itemized in the attached Resource Allocation Estimate. These costs represent our best estimate at this time and may change subject to future developments during the project. It is possible that some of the estimated manpower requirements for specific task items may increase while others may not require the entire anticipated effort. This provides us a greater degree of confidence in the overall project estimate, rather than in any given particular task.

If unforeseen circumstances should arise which indicate that more time is required, V&A will provide a written estimate of additional required time and cost. V&A will not proceed with work beyond the not-to-exceed figure without written authorization from your office. Charges to this project will be made for actual time, travel, and materials spent on the project and will be charged as per the attached Resource Allocation Estimate and Fee Schedule. We request that you carefully review this proposal to ensure a full understanding of the scope of the work.

We are prepared to begin work on your project upon receiving written approval, a notice to proceed (NTP), or a purchase order from your office.

On behalf of our staff and myself, I would like to thank you for the opportunity to be of service to you, Ardurra, and Marion County Utilities. We look forward to working with you.

Sincerely,
V&A Consulting Engineers, Inc.



Vaughan Harshman, P.E.
Odor Control Practice Lead

Resource Allocation Estimate

JOB NO: 25-0510

1/12/2026

CLIENT: Ardurra

PROJECT NAME: Oak Run WWTp Odor and Corrosion Control Program

Task	Description	Principal-in-Charge	Senior Project Manager	Project Manager	Project Engineer	Associate Engineer	Project Admin.	Total Labor Hours	Subtotal Labor Cost	Subtotal ODC	Total Labor Cost and ODC by Task
1	Phase 1 Project Management	1	16		5	3	8	33	\$ 7,403.00		\$ 7,403.00
2	Phase 1 Background Review	1	13	3	10	14		41	\$ 9,712.00		\$ 9,712.00
3	Phase 1 KO Workshop & Field Investigation		44			36		80	\$ 19,532.00	\$ 16,801.00	\$ 36,333.00
4	Phase 1 Tech Memo	1	8	12	10	30		61	\$ 13,654.00		\$ 13,654.00
5	Phase 2 Project Management		9	6	2	2	4	23	\$ 5,369.00		\$ 5,369.00
6	Phase 2 Operational Factors & Technology Evaluation		14	14	14	20		62	\$ 14,544.00		\$ 14,544.00
7	Phase 2 Action Plan Development Workshop		26					26	\$ 7,514.00	\$ 975.00	\$ 8,489.00
8	Phase 2 Tech Memo	1	11	8	8	25		53	\$ 12,094.00		\$ 12,094.00
9	Phase 3 Project Management		20	10	8		14	52	\$ 11,500.00		\$ 11,500.00
10	Phase 3 OCCP Implementation Tech Services		40	30	21	58		149	\$ 34,986.00	\$ 15,784.00	\$ 50,770.00
Subtotal Direct Labor Hours		4	201	83	78	188	26	580			
Hourly		\$ 324.00	\$ 289.00	\$ 259.00	\$ 218.00	\$ 191.00	\$ 99.00				
Subtotal Direct Labor Cost		\$ 1,296.00	\$ 58,089.00	\$ 21,497.00	\$ 17,004.00	\$ 35,908.00	\$ 2,574.00		\$ 136,368.00	\$ 33,560.00	\$ 169,928.00
Other Direct Costs		Unit Cost	Units	No. of Units	Subtotal ODC						
	Mileage	\$ 0.67 per mile		500							\$ 335.00
	Hotel	\$ 200.00 per night		11							\$ 2,200.00
	Per Diem for Full Day	\$ 75.00 per day		10							\$ 750.00
	Per Diem for First/Last Day	\$ 50.00 per day		6							\$ 300.00
	Car Rental	\$ 100.00 per day		5							\$ 500.00
	Round Trip Airfare	\$ 600.00 per flight/person		3							\$ 1,800.00
	4G H2S Monitor	\$ 300.00 per week		20							\$ 6,000.00
	4G Pressure Monitor	\$ 300.00 per week		10							\$ 3,000.00
	Grab samples	\$ 75.00 per sample		31							\$ 2,325.00
	pH/ORP/Temp Meter	\$ 50.00 per day		7							\$ 350.00
	Acrulog NH3 Monitor	\$ 400.00 per week		8							\$ 3,200.00
	Acrulog H2S ppb monitor	\$ 800.00 per week		16							\$ 12,800.00
Subtotal Other Direct Costs											\$ 33,560.00
GRAND TOTAL ESTIMATED COST											\$ 169,928.00

V&A Consulting Engineers Fee Schedule	
Position	Hourly Rate
Principal-in-Charge	\$324
Senior Project Manager	\$289
Senior Professional Land Surveyor	\$267
Project Manager	\$259
Senior Project Engineer	\$241
Project Engineer	\$218
Deputy Engineer	\$206
Associate Engineer	\$191
Graduate Engineer	\$160
CAD Designer	\$158
Survey Manager	\$147
Engineering Associate	\$142
Senior Inspector	\$142
Senior Technician	\$137
Survey Crew (2 Man)†	\$267
Technician	\$120
Project Administrator	\$99
Deposition/Court Appearance	\$589
Other Direct Costs	
Subcontractor/Subconsultant, Lab Analysis: Cost + 10%	
Travel (Air/Hotel/Per Diem/Car Rental), Printing, Shipping: Cost	
Auto/Truck Mileage: Federal Rate	
Field Truck: \$140/Day	
Confined Space Entry Truck and Safety Equipment: \$280/Day	

†Survey Crew rate billed in 4-hour increments on a Lump Sum basis.

VANDA Concrete Condition Index

V&A created the VANDA Concrete Condition Index to provide consistent reporting of corrosion damage based on objective criteria. Concrete condition is rated from Level 1 to Level 5 based upon field observations and measurements, with Level 1 indicating the best case and Level 5 indicating severe damage. The individual criteria are applied based on engineering judgment to arrive at the overall rating. The 2020 update to the VANDA Concrete Condition Index adds a fifth rating level, providing greater detail to assist in planning the rehabilitation or replacement of deteriorated assets.

Condition Rating	Description	Representative Photograph
Level 1	<p>Little or no damage to concrete</p> <p>Hardness..... hard surface</p> <p>Surface profile smooth, apparently intact</p> <p>Cracks hairline width, minimal frequency</p> <p>Spalling none</p> <p>Reinforcement not exposed or damaged</p>	
Level 2	<p>Minor surface damage</p> <p>Hardness..... soft surface layer to 1/8-inch depth</p> <p>Surface profile fine aggregate exposed</p> <p>Cracks hairline width, moderate frequency</p> <p>Spalling shallow spalling, minimal frequency</p> <p>Reinforcement not exposed or damaged</p>	
Level 3	<p>Moderate surface damage</p> <p>Hardness..... soft surface layer to 1/4-inch depth</p> <p>Surface profile large aggregate exposed or protruding</p> <p>Cracks up to 1/32-inch width, moderate frequency</p> <p>Spalling shallow spalling, minimal frequency</p> <p>Reinforcement exposed; minor damage, minimal frequency</p>	
Level 4	<p>Loss of concrete mortar and damage to reinforcement</p> <p>Hardness..... soft paste beyond 1/4-inch depth</p> <p>Surface profile large aggregate exposed, loose, or missing</p> <p>Cracks 1/8- to 1/4-inch width, moderate frequency</p> <p>Spalling deep spalling, moderate frequency</p> <p>Reinforcement exposed with damage, moderate frequency</p>	
Level 5	<p>Bulk loss of concrete and reinforcement</p> <p>Hardness..... soft paste beyond 1-inch depth</p> <p>Surface profile large aggregate exposed, loose, or missing</p> <p>Cracks over 1/2-inch width, or narrower and frequent</p> <p>Spalling deep spalling, high frequency</p> <p>Reinforcement consumed; loss of structural integrity</p>	

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VANDA Metal Condition Index

V&A created the VANDA Metal Condition Index to provide consistent reporting of corrosion damage based on objective criteria. Metal condition is rated from Level 1 to Level 5 based upon field observations and measurements, with Level 1 indicating the best case and Level 5 indicating severe damage. The individual criteria are applied based on engineering judgment to arrive at the overall rating. The 2020 update to the VANDA Metal Condition Index adds a fifth rating level, providing greater detail to assist in planning the rehabilitation or replacement of deteriorated assets.

Condition Rating	Description	Representative Photograph
Level 1	Little or no corrosion <ul style="list-style-type: none"> ▪ Wall thickness loss, generalnone ▪ Wall thickness loss, pitting.....none to minimal ▪ Extent (area) of corrosion.....may be widespread but superficial 	
Level 2	Minor corrosion <ul style="list-style-type: none"> ▪ Wall thickness loss, generalup to 20% ▪ Wall thickness loss, pitting.....up to 20% ▪ Extent (area) of corrosion.....localized 	
Level 3	Moderate corrosion <ul style="list-style-type: none"> ▪ Wall thickness loss, general20% to 40% ▪ Wall thickness loss, pitting.....20% to 60% ▪ Extent (area) of corrosion.....up to half of surface 	
Level 4	Severe corrosion <ul style="list-style-type: none"> ▪ Wall thickness loss, general40% to 60% ▪ Wall thickness loss, pitting.....60% to 100% (pinholes) ▪ Extent (area) of corrosion.....most of surface 	
Level 5	Failure or imminent failure <ul style="list-style-type: none"> ▪ Wall thickness loss, generalgreater than 60% ▪ Wall thickness loss, pitting.....100% (holes) ▪ Extent (area) of corrosion.....most or all of surface 	

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VANDA Wastewater Turbulence Index

V&A created the VANDA Wastewater Turbulence Index to provide consistent reporting of turbulence in wastewater systems based on objective criteria. Turbulence is a major factor in the release of hydrogen sulfide and other dissolved gases from wastewater to the surrounding atmosphere, but it is difficult to quantify for modeling, comparison, and condition assessment purposes. With the VANDA Wastewater Turbulence Index, turbulence is rated from Level 1 to Level 5 based on field observations, with Level 1 indicating the least turbulence and Level 5 indicating the highest level of turbulence. The individual criteria are applied based on engineering judgment to arrive at the overall rating.

Condition Rating	Description	Representative Photographs	
Level 1	<p>Little or no water surface movement</p> <p>Splashing none Surface agitation smooth Waterfall height none Waterfall type none Mixing/Aeration none</p>		
Level 2	<p>Minor water surface movement</p> <p>Splashing minimal Surface agitation some ripples Waterfall height <1 foot Waterfall type weir, smooth transition of flow Mixing/Aeration sub-surface mixing, no air entrainment</p>		
Level 3	<p>Moderate surface agitation</p> <p>Splashing 1-2 inches above water surface Surface agitation ripples, some bubbles Waterfall height 1-3 feet Waterfall type weir, v-notch Mixing/Aeration sub-surface mixing, some air entrainment</p>		
Level 4	<p>Active surface agitation with splashing</p> <p>Splashing 2-6 inches above water surface Surface agitation full surface motion, bubble effervescence Waterfall height 3-5 feet Waterfall type open pipe, directly into receiving water surface Mixing/Aeration surface agitation, fine bubble diffusion</p>		
Level 5	<p>Fully agitated surface</p> <p>Splashing >6 inches above water surface Surface agitation full waves and/or aeration of surface Waterfall height >5 feet Waterfall type open pipe, hitting structure wall or floor Mixing/Aeration agitation w/ splashing, coarse bubble diffusion</p>		

**ATTACHMENT C:
ENVIRONMENTAL ASSESSMENTS PROPOSAL**



**Oak Run WWTP Expansion - SW 95th Cir Driveway Addition
33 Acres (MOL) Located in Ocala, Marion County, Florida
Environmental Assessment for Listed Species (EALS) Services**

Date: December 29, 2025
To: Mitchell Chauncey, P.E.
Pigeon-Ardurra, LLC
925 SE 17th Street, Ocala, FL 34471
mchauncey@ardurra.com

EcoLOGIC Environmental Services, LLC is pleased to provide you with Environmental Assessment for Listed Species (EALS) services for the proposed expansion of the Oak Run Wastewater Treatment Plant (WWTP) in Ocala, Marion County, Florida. It is our understanding that the County is evaluating the acquisition of either the entirety of parcels 35341-001-20 & 35341-002-25 (comprising approximately 33 acres) or a smaller 3.25 acre portion of the parcels for construction of a new drive access from SW 95th Circle to the existing Oak Run WWTP. The County has requested a quote for an environmental assessment for listed species for either the entire 33 acre parcels or the 3.25 acre sub-parcel, as required to meet development requirements for Environmental Resource Permitting with SWFWMD, as well as the Marion County Land Development Code. The EALS will include a field assessment of habitat on-site / direct evidence of use by listed species (such as gopher tortoise burrows, eagle nests, etc.), a review of available mapping and species records to determine if listed wildlife or wetlands may be impacted by development of the property, as well as recommendations on permitting / consultation actions if it is determined impacts are likely to occur. The survey will include a 100% cover gopher tortoise burrow survey. The results will be presented in a report format suitable for submittal to the SWFWMD / FWC as part of an Environmental Resource Permit application for development of the property. The environmental assessment will also meet the local government permitting requirements of Marion County, as required under Section 6.5.1 of the County Land Development Code.

Per the Scope of Work, if other threatened species arise in the site investigation, additional specific assessments may be asked for later under additional services tasks. Similarly, costs for permitting / relocation of gopher tortoises or other listed species are not included in this scope.

Option 1 Environmental Assessment – 3.25 Acre Subparcel

Environmental Assessment for Listed Species (EALS) \$ 2,000.00

Option 2 Environmental Assessment – 33 Acre Parent Parcels

Environmental Assessment for Listed Species (EALS) \$ 4,200.00

Payment will be due no later than 30 days after receipt of invoice. We appreciate the opportunity to assist you with this project and look forward to assisting you.

Signature

Title

Date

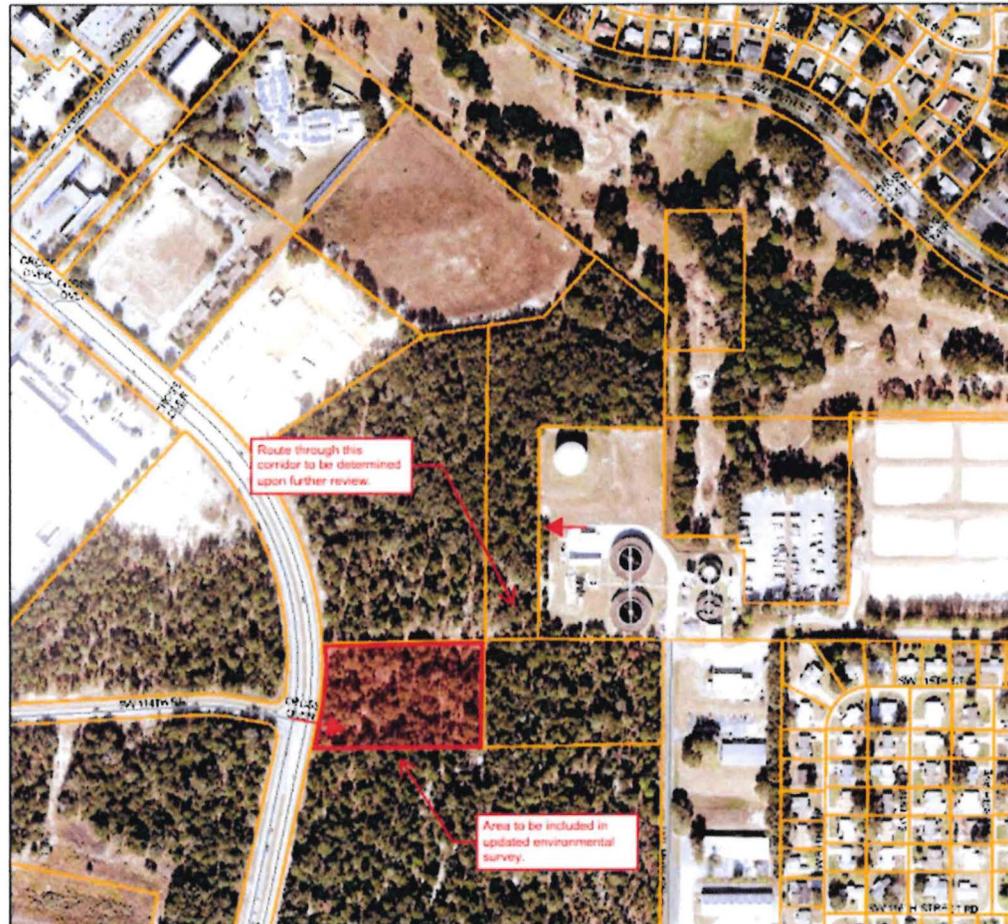
EcoLOGIC Environmental Services, LLC

PO Box 418,
Holder, FL 34445
(352) 453 – 9884
Admin@EcoLOGICEnv.com



Assessment Area Parcel Option 1 – 3.25 Acre Sub-parcel

SWR WRF Driveway from SW 95th Cir



EcoLOGIC Environmental Services, LLC

PO Box 418,
Holder, FL 34445
(352) 453 – 9884
Admin@EcoLOGICEnv.com



Assessment Area Parcels Option 2 – 33 Acre Parent Parcels



EcoLOGIC Environmental Services, LLC

PO Box 418,
Holder, FL 34445
(352) 453 - 9884

Admin@EcoLOGICEnv.com

**ATTACHMENT D:
BOUNDARY AND TOPOGRAPHIC SURVEY PROPOSAL**



Consulting Group, Inc.

Land Development + Surveying & Mapping Planning + Environmental + G.I.S.
426 SW 15th Street, Ocala, FL 34471
PHONE: (352) 405-1482 **FAX:** (888) 272-8335 **WEBSITE:** www.JCHcg.com
Christopher J. Howson, P.S.M., C.F.M, President

December 23, 2025

Mitchell Chauncey
Ardurra
925 SE 17th Street, Suite A
Ocala, FL 34471

RE: Oak Run WWTP – Driveway Connection
Parcel ID: 35341-001-20 and 35341-002-25

Mitchell,

Thank you for considering JCH Consulting Group. After reviewing materials from our office, I have determined a fee listed below for the requested services. This will include the following tasks on the project as depicted above in Marion County, Florida:

Option #1: Boundary & Topographic Survey Parcel 35341-001-20 & 35341-002-25):

- Topographic information to include area as depicted on Exhibit "A" (Approximately 33 acres).
- Locate and provide topography at all above ground improvements
- Locate Trees 10" or larger
- Horizontal and Vertical data will meet or exceed Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17.050-052, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.
- Locate existing conditions along contiguous roadways
- Vertical datum will be on NAVD 1988
- Contours will be shown on a 1' for minor, and 5' for major
- Confirm FEMA Flood Elevation
- Invert data for sanitary and storm sewer structures
- State Plane Coordinates
- All easements depicted on survey as furnished by client or platted
- Contours will be collected on a 100' grid
- Topographic data to include 50' overlap on all surrounding parcels
- Locate all above ground utilities (gate valves, water meters, etc.)

Option #2: Boundary & Topographic Survey (Portion of 35341-001-20:

- Topographic information to include area as depicted on Exhibit "A" (Approximately 3.25 acres).
- Locate and provide topography at all above ground improvements
- Locate Trees 10" or larger
- Horizontal and Vertical data will meet or exceed Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17.050-052, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.
- Locate existing conditions along contiguous roadways
- Vertical datum will be on NAVD 1988
- Contours will be shown on a 1' for minor, and 5' for major
- Confirm FEMA Flood Elevation
- Invert data for sanitary and storm sewer structures
- State Plane Coordinates
- All easements depicted on survey as furnished by client or platted
- Contours will be collected on a 100' grid
- Topographic data to include 50' overlap on all surrounding parcels
- Locate all above ground utilities (gate valves, water meters, etc.)

Classification	Rates	Classification	Rates
Professional Surveyor/Mapper	\$130	2 Person Survey Crew	\$110
CAD Technician	\$75	3 Person Survey Crew	\$130
Clerical	\$45	Vvh in pavement	\$550 ea
GIS/Mapping Technician	\$75	Vvh out of pavement	\$400

Option #1: Boundary & Topographic Survey Parcel 35341-001-20 & 35341-002-25):

	Professional Surveyor / Mapper	CAD Tech	Clerical	2 Person Surveyor Crew	Total
Price / Hr,	\$130.00	\$75.00	\$45.00	\$110.00	
Coordination	13	11	8	9	
Control				10	
Topographic Collection	10	70		130	
QA/QC	20				
Total	\$5,590.00	\$6,075.00	\$360.00	\$16,390.00	\$28,415.00

Option #2: Boundary & Topographic Survey (Portion of 35341-001-20:

	Professional Surveyor / Mapper	CAD Tech	Clerical	2 Person Surveyor Crew	Total
Price / Hr,	\$130.00	\$75.00	\$45.00	\$110.00	
Coordination	3	4	3	2	
Control				2	
Topographic Collection	3	29		38	
QA/QC	5				
Total	\$1,430.00	\$2,475.00	\$135.00	\$4,620.00	\$8,660.00

Deliverable:

Final survey deliverables are as follows:

- 1 compact disc (CD) containing the electronic survey file in AutoCAD Civil 3D 2023 format. The AutoCAD files shall include the Civil 3D .XML file for existing ground surface and survey baseline and the complete ASCII file of all coordinate data in a comma delimited format.
- 5 copies of the 22"x34" survey maps signed and sealed by a licensed Professional Land Surveyor of the State of Florida.

Once the proposal is authorized, we anticipate a completion date of 25-40 business days subsequent to. The requested services will be delivered in an electronic drawing file in Civil 3D 2023 format and plotted 22"x34" maps. Upon completion, an invoice will be delivered with the final map and drawing file. Payment will be due within 30 days of the invoice date.

Terms of this proposal are valid for 30 days from date of proposal. If you have any questions regarding this proposal, or for any further information, please do not hesitate to call.

Sincerely,

Chris Howson

Chris Howson, P.S.M., C.F.M., (FL., MS)
President
JCH Consulting Group, Inc.

EXHIBIT "A" - OPTION 1



JCH
 CONSULTING GROUP, INC.
 LAND DEVELOPMENT + SURVEYING & MAPPING
 PLANNING + ENVIRONMENTAL + G.I.S.
 3128 NW BLITCHTON ROAD, OCALA, FLORIDA 34475
 PHONE (352) 405-1482 FAX (888) 272-8335 www.JCHeg.com
 CERTIFICATE OF AUTHORIZATION - L.B. 8071

DRAWN:	C.J.H.	
REVISED:		
CHECKED:	C.J.H.	
APPROVED:	C.J.H.	
SCALE:	NTS	

EXHIBIT "A" - OPTION 2



JCH
 CONSULTING GROUP, INC.
 LAND DEVELOPMENT - SURVEYING & MAPPING
 PLANNING - ENVIRONMENTAL - G.I.S.
 426 SOUTHWEST 15TH STREET, OCALA, FLORIDA 34471
 PHONE (352) 405-1482 FAX (888) 272-8335 www.JCHeg.com
 CERTIFICATE OF AUTHORIZATION - LB 8071

DRAWN:	C.J.H.	
REVISED:		
CHECKED:	C.J.H.	
APPROVED:	C.J.H.	
SCALE:	NTS	