

Vendor will perform the services described outlined herein for the amount of \$56,996.94. Vendor's fee amounts are detailed further in **Exhibit "B"** Vendor will be using rates previously established under Contract CM2685.

ARTICLE 4. Other Provisions

The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the AGREEMENT referenced above and any of its attachments or schedules. Additional terms or contract provisions whether submitted purposely or inadvertently, shall have no force or effect. This Work Authorization will become a part of the referenced AGREEMENT when executed by both parties.

Any Work Authorization entered into prior to expiration or termination set forth in the AGREEMENT shall continue in effect through the earlier of: (i) the date all of the Services thereunder have been fully completed and accepted by Nassau County, or (ii) until such time as such Work Authorization expires or is terminated in accordance with its terms or is terminated pursuant to Article 2 hereof.

In presenting this Work Authorization, Vendor agrees that:

Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Vendor. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work assignment. Any additional information, including detailed scope of services are attached.

AGREED TO BY:

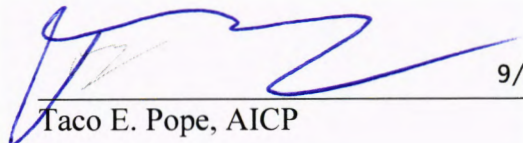
BY: Sam Levin
Print Name: Sam Levin
Title: President
Date: 9/1/2023

RECOMMENDED AND APPROVED BY NASSAU COUNTY:

Department Head/Managing Agent: Doug Podiak 8/30/2023

Procurement: Nassau Adams 9/1/2023

Office of Management & Budget: Chris Lacambra 8/31/2023 ^{TP}

County Manager:  9/6/2023
Taco E. Pope, AICP

Ex-Officio Clerk:

*See below

John A. Crawford

County Attorney:

Denise C. May

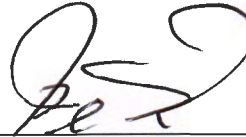
9/5/2023


(RFJ)

9/5/2023

APPROVED by the BOARD OF COUNTY COMMISSIONERS, this 25th day of September, 2023.

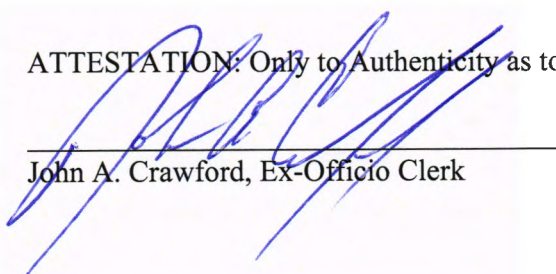
BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA



Klynt A. Farmer
Chairman 

ACCOUNT NO.: 01362534-531000 \$38,396.94 01363534-\$18,600
531000

ATTESTATION: Only to Authenticity as to Chairman's Signature:



John A. Crawford, Ex-Officio Clerk

Exhibit "A"
Scope of Services

FDEP Semi-Annual Water Quality Monitoring Services
(Sampling, Laboratory Analyses, and Reporting Services)
for the
West Nassau and Lofton Creek Closed Landfills
Fall 2023 and Spring 2024 Sampling Events

Nassau County
S2L, Inc.'s Contract and Work Authorization Number: CM2685-WA44
S2Li Project Number: 23-1021

Work Authorization Service Period: Fiscal Year 2024 (October 1, 2023 through September 30, 2024)

This Work Authorization will provide sampling, testing, and reporting services by S2L, Incorporated ("S2Li") and The Colinas Group ("TCG") (S2Li's hydrogeological subconsultant) collectively known as the "S2Li Project Team" for the West Nassau and Lofton Creek Landfills in accordance to the respective landfill's water quality Monitoring Plan Implementation Schedules ("MPIS") within the permits for each site. As an additional services option, the S2Li Project Team will also sample and analyze the water quality at the wells along Meadowfield Bluff Road and provide the results for County documentation. Under the scope of services for this Work Authorization, S2Li Project Team will perform the following:

SCOPE OF SERVICES

S2Li Project Team will provide qualified professional labor to complete groundwater and surface water sampling, laboratory analyses, and reporting to support Nassau County in compliance with Florida Department of Environmental Protection ("FDEP" or "Department") permit conditions and the requirements of FDEP Rule 62-701, FAC. S2Li Project Team will prepare two (2) Semi-Annual Water Quality Monitoring Reports for the West Nassau and one Annual (Spring Event) Water Quality Monitoring Report for Lofton Creek Landfills during FY2024 (October 1, 2023 through September 30, 2024). S2Li Project Team will use groundwater level measurements and field and laboratory results from analyses of collected groundwater and surface water samples to complete the semi-annual FDEP data reporting requirements.

The Monitoring Reports will be prepared in accordance with the requirements of FDEP Rule 62-701.510(8)(a) and the landfill's current FDEP MPIS. The Semi-Annual Monitoring Reports will include, but may not be limited to:

- a. Facility basic information, sample collection dates, and laboratory analyses dates;
- b. Original laboratory report results, QA/QC notations for analytical results, method detection limits, applicable water quality standards, and STORET code numbers for all parameters analyzed;
- c. Tabulated water level and field parameter measurement data;
- d. Map showing monitoring locations for groundwater and surface water monitoring points with identification numbers;
- e. Water level measurements and measuring point elevations at each monitoring point reported to a precision of 0.01 feet NGVD;

- f. Updated groundwater contour maps for the upper and lower monitoring zones, with contour intervals no greater than 1 foot, indicating groundwater elevations and direction of groundwater flow;
- g. Summary of any water quality standards or criteria that are exceeded, and;
- h. Electronic Data Delivery (EDD) prepared in FDEP ADaPT format.

Additional sampling for testing may include leachate samples collected from the French Drain pump(s) and leachate storage tanks. A summary of the results will be prepared and compared to the Florida Drinking Water Standards.

S2Li Project Team will complete two semi-annual monitoring and reporting events for the West Nassau Closed Landfill and an annual monitoring and reporting event for the Lofton Creek Closed Landfill. Expected sampling to be conducted in the Fall (October through December) of 2023 for the West Nassau Landfill only and in the Spring (April through June) of 2024 for both the West Nassau and Lofton Creek Landfills. Water quality monitoring reports will be prepared in draft form for review and comment by Nassau County and, on approval, will be submitted to the FDEP through the Department's ESSA website. Electronic copies of the original submittal will be transmitted to Nassau County to complete each monitoring event.

Optional Additional Scope of Services for Lofton Creek Landfill

Nassau County may desire to monitor water quality from time to time at four (4) existing monitoring wells located along Meadowfield Bluffs Road located to the west of the Lofton Creek Closed Landfill. At the County's direction, S2Li Project Team will sample these wells one time during the time of the spring sampling event of the Lofton Creek Landfill monitoring wells, analyze the samples in the laboratory, and prepare a letter report presenting monitoring results with recommendations for further actions, if any, on the part of Nassau County. The analysis will include those listed in the landfill's FDEP MPIS for testing at facility background monitoring wells.

SCHEDULE

Work under the Scope of Services provided above will begin upon receipt of the signed Work Authorization. It is estimated that it will take approximately 30 days to complete and deliver the draft Semi-Annual Water Quality Monitoring Reports from the time of receipt of laboratory analytical results. S2Li Project Team will prepare one (1) draft copy of each report for review and approval of Nassau County. Upon approval from Nassau County, S2Li Project Team will prepare the final report and submit the electronic data deliverable in ADaPT format to the FDEP Tallahassee Office and Nassau County.

Work under the Scope of Services provided below will occur during the period of October 1, 2023 and run through this service period ending September 30, 2024.

COST ESTIMATE

A detailed breakdown of costs for the completion of semi-annual water quality monitoring activities at both landfills is provided on the attached Cost Summary Sheet. Annual costs for field sampling, laboratory analyses, and report preparation for submittal to the FDEP in accordance with landfill closure permit requirements are provided in the attachment to this proposal.

West Nassau Landfill costs include leachate sampling and testing from one of the French Drain pump stations and one composite sample at the leachate storage tanks.

Potential costs for re-sampling of groundwater and surface water are provided for rare instances where an original sample analysis confirmation is considered advisable. Costs are presented as Contingent DW/SW Resampling in the Cost Sheet Summary. Resampling of any monitoring well or surface water station will only occur with prior approval from Nassau County.

The cost estimate to conduct the Work as described in the above-listed Scope of Services is **\$56,996.94** including the optional additional services for Lofton Creek Landfill. A detailed breakdown for each task in conjunction with the estimated labor hours, contract labor rates, and expenses are included in the attached Exhibit 1 for the S2Li Project Team. Costs incurred will be invoiced on a time and material basis. The County will be notified when the overall project budget is nearing its limit.

August 15, 2023

EXHIBIT B

**FDEP Semi-Annual Water Quality Monitoring Services
West Nassau and Lofton Creek Closed Landfills
Sampling, Laboratory Analyses, and Reporting**

S2Li No. 23-1021
County No. CM2685-WA44

Fiscal Year 2024 Service Period (Fall 2023 and Spring 2024 Sampling/Reporting Events)
Nassau County, Florida

Total Project Costs
S2Li Fee Estimate

LABOR	LABOR CATEGORY AND RATE										TOTAL HOURS	SUBTOTAL LABOR
	TASK	DESCRIPTION	Project Dir./ Principal	Regional Manager/ QC Officer	Principal Engineer	Senior Engineer	Project Engineer	Associate Engineer/CADD	Field Technician	Office Manager		
1	West Nassau Landfill (2 Events)	\$250.00	\$232.25	\$190.26	\$137.09	\$97.92	\$74.21	\$52.38	\$76.24	16	\$3,109.71	
2	Lofton Creek Landfill (1 event)	1	11	0	0	0	0	0	4	14	\$2,957.23	
3	Meadowfield Buff Road (Optional Add'l Services for Lofton Creek LF) (if requested)	0	4	0	0	0	0	0	0	4	\$929.00	
SUBTOTALS:		2	26	0	0	0	0	0	6	34	\$6,995.94	
EXPENSES	LABOR CATEGORY AND RATE										TOTAL HOURS	SUBTOTAL EXPENSES
	TASK	DESCRIPTION	Field Vehicle (\$100/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)	The Colinas Group (Attachment)					
1	West Nassau Landfill (2 Events)	\$ -	\$ -	\$ -	\$ -	\$ 34,532.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,532.00
2	Lofton Creek Landfill (1 event)	\$ -	\$ -	\$ -	\$ -	\$ 11,951.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,951.00
3	Meadowfield Buff Road (Optional Add'l Services for Lofton Creek LF) (if requested)	\$ -	\$ -	\$ -	\$ -	\$ 3,518.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,518.00
SUBTOTALS:		\$ -	\$ -	\$ -	\$ -	\$ 50,001.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,001.00

COST SUMMARY

TASK	DESCRIPTION	S2LI LABOR	SUBTOTAL EXPENSES Including Subconsultants	TASK TOTAL
1	West Nassau Landfill (2 Events)	\$ 3,109.71	\$ 34,532.00	\$ 37,641.71
2	Lofton Creek Landfill (1 event)	\$ 2,957.23	\$ 11,951.00	\$ 14,908.23
3	Meadowfield Buff Road (Optional Add'l Services for Lofton Creek LF) (if requested)	\$ 929.00	\$ 3,518.00	\$ 4,447.00
TOTALS		\$ 6,995.94	\$ 50,001.00	\$ 56,996.94

August 15, 2023

Mr. Omar Smith, P.E.
S2L, Inc.
531 Versailles Drive
Suite 202
Maitland, Florida 32751

Subj: **Proposal for Hydrogeological Services**
Semi-Annual Water Quality Monitoring and Reporting
Nassau County Closed Landfills
TCG Proposal No. P-636

Dear Mr. Smith:

The Colinas Group, Inc. (TCG) is pleased to submit this proposal and fee/cost estimate to complete the following Scope of Services for hydrogeological services in support of regulatory compliance actions for Nassau County's West Nassau Closed Class I Landfill and Lofton Creek Closed Class I Landfill for the period Fall 2023 through Spring 2024.

SCOPE OF SERVICES

TCG will provide qualified professional labor to complete groundwater and surface water sampling, laboratory analyses and reporting to support Nassau County in compliance with Florida Department of Environmental Protection (FDEP) permit conditions and the requirements of FDEP Rule 62-701, FAC. TCG will prepare: Two (2) Semi-Annual Water Quality Monitoring Reports for the West Nassau Landfill and; one (1) Semi-Annual Water Quality Monitoring Report for the Lofton Creek Landfill over the coming one-year period. TCG will use groundwater level measurements and field and laboratory results from analyses of collected groundwater and surface water samples to complete the semi-annual FDEP data reporting requirements

The Semi-Annual Monitoring Reports will be prepared in accordance with the requirements of FDEP Rule 62-701.510(8)(a) and the landfill's current FDEP Monitoring Plan Implementation Schedules (MPIS). The Semi-Annual Monitoring Reports will include, but may not be limited to:

- a. Facility basic information, sample collection dates and laboratory analyses dates.
- b. Original laboratory report results, QA/QC notations for analytical results, method detection limits, applicable water quality standards and STORET code numbers for all parameters analyzed.
- c. Tabulated water level and field parameter measurement data.
- d. Map showing monitoring locations for groundwater and surface water monitoring points with identification numbers.
- e. Water level measurements and measuring point elevations at each monitoring point reported to a precision of 0.01 feet NGVD.
- f. Updated groundwater contour maps for the upper and lower monitoring zones, with contour intervals no greater than 1 foot, indicating groundwater elevations and direction of groundwater flow.
- g. Summary of any water quality standards or criteria that are exceeded.
- h. Electronic Data Delivery (EDD) prepared in FDEP ADaPT format.

TCG will complete one calendar year of FDEP semi-annual monitoring and reporting events for the West Nassau Closed Landfill and the Lofton Creek Closed Landfill to include: Fall (October) 2023 and Spring (April) 2024 for West Nassau and Spring (April) 2024 for Lofton Creek. Water quality monitoring reports will be prepared in draft for review and comment by S2Li and Nassau County and, on approval, will be submitted to the FDEP through the Department’s ESSA website. Electronic copies of the original submittal will be transmitted to S2Li to complete the monitoring event.

TCG proposes to complete the above Scope of Services on a not-to-exceed fee basis in accordance with our personnel standard hourly rates. A summary of professional labor fees and subcontract laboratory costs to complete the work tasks is presented below:

Semi-Annual Monitoring and Reporting (One-Year)

<u>West Nassau Landfill</u>	
TCG Professional Labor	\$ 8,530.00
Laboratory Direct Costs	<u>26,002.00</u>
Sub-Total	\$ 34,532.00
<u>Lofton Creek Landfill</u>	
TCG Professional Labor	\$ 4,443.00
Laboratory Direct Costs	<u>7,508.00</u>
Sub-Total	\$ 11,951.00
TOTAL FEES AND COSTS	\$ 46,483.00

Nassau County may desire to monitor water quality from time to time at four (4) existing monitoring wells located along Meadowfield Bluffs Road located to the west of the Lofton Creek Closed Landfill. TCG, at the direction of S2L, Inc., will sample these wells, analyze the samples in the laboratory and prepare a letter report presenting monitoring results with recommendations for further actions, if any, on the part of Nassau County. Analytes will include those listed in the landfill’s FDEP Monitoring Plan Implementation Schedule for testing at facility background monitoring wells.

A summary of professional labor fees and laboratory costs to complete this “on-request” task is presented below:

Optional Monitoring and Reporting (per event) for Meadowfield Bluffs Road

TCG Professional Labor	\$ 1,108.00
Laboratory Direct Costs	\$ 2,410.00
TOTAL FEES AND COSTS	\$ 3,518.00

A detailed breakdown of costs for completion of semi-annual water quality monitoring activities at both landfills is provided on the attached Cost Summary Sheet. Annual costs for field sampling, laboratory analyses and report preparation for submittal to the FDEP in accordance with landfill closure permit requirements are provided in the attachment to this proposal.

Costs for groundwater analyses include the addition of tests for Boron and Hydrogen Sulfide at specific monitoring wells at the West Nassau and Lofton Creek landfills to meet anticipated upcoming FDEP rule revisions for monitoring at unlined Class I landfills. TCG will include both parameters for sampling in the first semi-annual monitoring event following the date of final and official rule revision by the FDEP. Laboratory analysis costs (\$48/sample) for boron and Hydrogen Sulfide together are included in the Cost Summary Sheet.

Potential costs for re-sampling of groundwater and surface water are provided for rare instances where an original sample analysis confirmation is considered advisable. Costs are presented as Contingent DW/SW Resampling in the Cost Sheet Summary. Resampling of any monitoring well or surface water station will only occur with prior approval from both S2L, Inc. and Nassau County.

We estimate approximately 30 days to complete and deliver the draft Semi-Annual Water Quality Monitoring Reports from the time of receipt of laboratory analytical results. TCG will prepare one (1) draft copy of each report for review and approval of S2Li and Nassau County. Upon approval from S2Li, TCG will prepare the final report and submit the electronic data deliverable (EDD) in ADaPT format to the FDEP Tallahassee Office and S2Li.

We trust this proposal is suitable for your budget and contracting needs. If you have any questions or require further information, please do not hesitate to contact me at your convenience. We look forward to being of service to S2Li and to Nassau County.

Very truly yours,
THE COLINAS GROUP, INC.



Richard L. Potts, Jr., P.G
Principal Consultant
FL P.G. Reg. No. 1113

