

**WORK AUTHORIZATION # CM2096-WA28  
 NASSAU COUNTY  
 BOARD OF COUNTY COMMISSIONERS  
 CONTINUING CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES  
 RFQ/BID NO. NC13-033**

<b>Consultant:</b>	S2L, Incorporated
<b>Contract Number:</b>	CM2096
<b>Contact Name:</b>	Omar Smith, P.E., V.P.
<b>Contact Number:</b>	407-475-9163
<b>Email:</b>	osmith@s2li.com

CURRENT WORK AUTHORIZATION			
Project Short Title: INWARD GRADIENT MEASUREMENTS AND EVALUATION FOR WEST NASSAU LANDFILL			
		CONTRACT OVERVIEW	
		<b>Total of Previous Authorizations</b>	\$1,413,403.11
<b>Date Submitted</b>	8/21/18	<b>Adjustments/Change Orders</b>	\$46,596.37
<b>Amount</b>	\$24,093.48	<b>This Work Authorization</b>	\$24,093.48
<b>Scheduled Completion</b>	9/30/2019	<b>Current Contract Total</b>	\$1,484,092.96

This Work Authorization is to the AGREEMENT between Nassau County and the Consultant known as the Continuing Contract for Professional Engineering Services-Solid Waste Landfills and Other Related Ancillary Facilities for Nassau County, Florida, dated April 16, 2014. The services to be provided under this Work Authorization are as follows:

ARTICLE 1. Services Described as:

S2LI will provide professional services to assist the County by measuring, recording, and evaluating the monthly inward gradient conditions at the slurry wall surrounding the West Nassau Landfill (Landfill), pursuant to the scope of services, attached hereto as Attachment "A".

ARTICLE 2. Time Schedule

Services will be provided from October 1, 2018 through September 30, 2019.

ARTICLE 3. Budget

The cost estimate to conduct the Work as described in the Scope of Services is \$24,093.48. A detailed breakdown of the estimated cost is attached as Exhibit 1.

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.


RCVD COUNTY MGR  
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In presenting this Work Authorization, Consultant agrees that:

Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Consultant. 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: **S2L, INCORPORATED**

BY:   
Print Name: Samuel B. Levin  
Title: President  
Date: 8/30/18

**RECOMMENDED AND APPROVED BY NASSAU COUNTY:**

Director of Engineering Services:

  
Becky Bray

Contract Management :

  
Grayson Hagins

County Attorney:

  
Michael Mullin

Office of Management & Budget:

9.7.18

  
Justin Stankiewicz

Interim County Manager

  
Michael Mullin

APPROVED by the County Coordinator, designee for the BOARD OF COUNTY COMMISSIONERS, the 10<sup>th</sup> day of September, 2018.

Account No. 01362534-531000 (\$18,113.48)

+

01361534-531000 (\$5,980.00)

## ATTACHMENT A

### SCOPE OF SERVICES

# Inward Gradient Measurements and Evaluation for the West Nassau Landfill

**Service Period: FY2019 (October 1, 2018 through September 30, 2019)**

**County Contract Number: CM2096-WA-- 28**  
**S2Li Project Number: 18-797**

**Service Period: FY2019 (October 1, 2018 through September 30, 2019)**

This Work Authorization (WA) tasks S2L, Incorporated (S2Li) to assist the County by measuring, recording, and evaluating the monthly inward gradient conditions at the slurry wall surrounding the West Nassau Landfill (Landfill). Under the scope of services for this Work Authorization, S2Li will perform the following:

#### **Task 1 – Monthly Monitoring of Well Water Elevation by taking Field Measurements**

S2Li will measure and record the water level elevations within wells at 50 locations (two wells per sampling location) surrounding the Landfill. These measurements will be conducted monthly, while S2Li is on site for purposes of monitoring and testing the landfill gas extraction wells. A copy of the field form filled out by S2Li's technician will be provided to the County upon leaving the Site. S2Li's technician will input the monthly slurry wall monitoring well water elevations into the County provided spreadsheet template and the electronic form will be sent to the County.

#### **Task 2 – Monthly Monitoring Data Evaluation**

S2Li will graphically compare the water elevations inside and outside of the West Nassau Landfills' slurry wall and will note trending results. A summary discussion of the monthly data results compared to the previous data trends will be submitted monthly to the County in conjunction with the monthly data results. Results that show any exceedances (inward gradient less than 12 inches) will be highlighted. Costs associated with addressing any compliance and regulatory issues with the Florida Department of Environmental Protection (FDEP) are not included in this scope of services and will need to be addressed as an additional service.

### SCHEDULE

The services under this Work Authorization would be conducted October 1, 2018 through September 30, 2019.

### COST ESTIMATE

The cost estimate to conduct the Work as described in the above listed Scope of Services is \$24,093.48. 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. 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.

July 30, 2018

Total Project Costs  
S2Li Fee Estimate

**EXHIBIT 1**  
**Engineering Services**  
**Inward Gradient Measurements and Evaluation**  
**Service Period: FY2019 (October 1, 2018 through September 30, 2019)**  
**West Nassau Class I Landfill**  
**Nassau County, Florida**

S2Li No. 18-797  
County No. CM2096-WA-

LABOR		LABOR CATEGORY AND RATE								TOTAL HOURS	SUBTOTAL LABOR
		Project Dir./ Principal	Regional Manager/ QC Officer	Principal Engineer	Senior Engineer	Project Engineer	Associate Engineer	CAD/ Technician	Office Manager		
TASK	DESCRIPTION	\$225.00	\$208.88	\$171.38	\$122.51	\$81.81	\$47.47	\$47.47	\$68.46		
1	Monthly Monitoring Well Water Elevation Field Measurements	2	24	0	0	12	84	0	10	132	\$11,116.92
2	Monthly Monitoring Data Evaluation	2	36	0	0	48	0	0	0	86	\$11,896.56
SUBTOTALS:		4	60	0	0	60	84	0	10	218	\$23,013.48

EXPENSES		Field Vehicle (\$90/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)						SUBTOTAL EXPENSES
TASK	DESCRIPTION										
1	Monthly Monitoring Well Water Elevation Field Measu	\$ 1,080.00	\$ -	\$ -	\$ -	\$ -	\$0.00				\$ 1,080.00
2	Monthly Monitoring Data Evaluation	\$ -	\$ -	\$ -	\$ -	\$ -	\$0.00				\$ -
SUBTOTALS:		\$ 1,080.00	\$ -	\$ -	\$ -	\$ -	\$0.00	\$0	\$0	\$0	\$ 1,080.00

COST SUMMARY				
TASK	DESCRIPTION	SUBTOTAL S2LI LABOR	SUBTOTAL EXPENSES including Subconsultants	TASK TOTAL
1	Monthly Monitoring Well Water Elevation Field Measurements	\$ 11,116.92	\$ 1,080.00	\$ 12,196.92
2	Monthly Monitoring Data Evaluation	\$ 11,896.56	\$ -	\$ 11,896.56
<b>TOTALS</b>		<b>\$ 23,013.48</b>	<b>\$ 1,080.00</b>	<b>\$ 24,093.48</b>

Monthly Field Measurements =====> \$ 12,196.92  
Data Input and Evaluation =====> \$ 11,896.56