

**WORK AUTHORIZATION # CM2685-WA03  
 NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS  
 CONTINUING CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES  
 SOLID WASTE LANDFILLS AND OTHER RELATED ANCILLARY FACILITIES  
 FOR NASSAU COUNTY, FLORIDA  
 RFQ/BID NO. NC19-001**

<b>Consultant:</b>	S2L, Incorporated
<b>Contract Number:</b>	CM2685
<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			
<b>Project Short Title: FY2020 Operation, Monitoring, Maintenance, and Reporting for the Landfill Gas Collection and Control System at the West Nassau Class I Landfill</b>			
		CONTRACT OVERVIEW	
		<b>Total of Previous Authorizations</b>	\$28,365.16
<b>Date Submitted</b>	7/26/19	<b>Adjustments/Change Orders</b>	\$0
<b>Amount</b>	\$188,485.10	<b>This Work Authorization</b>	\$188,485.10
<b>Scheduled Completion</b>	09/30/2020	<b>Current Contract Total</b>	\$216,850.26

This Work Authorization is to the CONTRACT 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 July 26, 2019. The services to be provided under this Work Authorization are as follows:

ARTICLE 1. Services Described as:

S2Li will provide services for the operation, monitoring, maintenance, and reporting of the Landfill Gas (LFG) Collection and Control System (CCS or LFGCCS) at the West Nassau Landfill, which are further described in Attachment "A", attached hereto and incorporated herein. Services will be completed as tasks consisting of:

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- Task 1 – Routine Operation, Monitoring, Adjustments, and Reporting**
- Task 2- Non-Routine Scheduled Maintenance**
- Task 3-Non-Routine Unscheduled Emergency Services**
- Task 4-Parts and Subcontractors for Non-Routine Services**
- Task 5-Miscellaneous Services**

ARTICLE 2. Time Schedule

Services will begin October 1, 2019 and run through this service period ending September 30, 2020.

ARTICLE 4. Other Provisions


The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the CONTRACT 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 CONTRACT when executed by both parties.

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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:

BY:   
Print Name: Samuel B. Levin  
Title: President  
Date: 8-26-19

Account No.: 01362534-531325-\$145,133.53 (77%)  
01361534-531325-\$43,351.57 (23%)


*Jan  
8/23/19*

**RECOMMENDED AND APPROVED BY NASSAU COUNTY:**

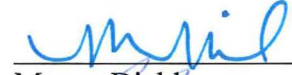
Public Works:

  
\_\_\_\_\_  
Department Head or Designee

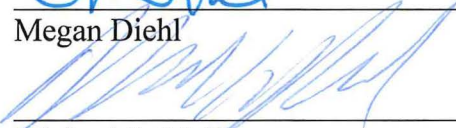
Contract Management:

  
\_\_\_\_\_  
Grayson Hagins

Office of Management & Budget:

  
\_\_\_\_\_  
Megan Diehl

County Manager:

  
\_\_\_\_\_  
Michael S. Mullin

Ex-Officio Clerk:

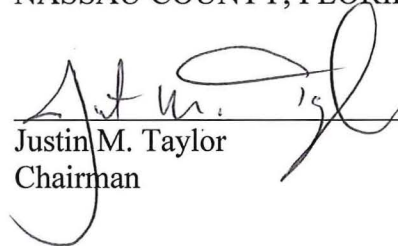
See signature below  
\_\_\_\_\_  
John Crawford

County Attorney:

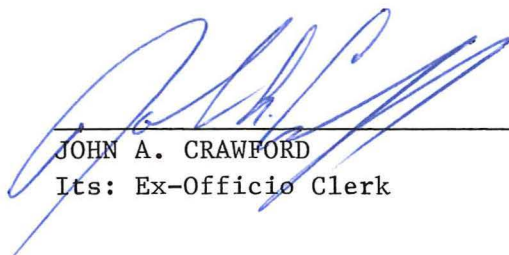
  
\_\_\_\_\_  
Michael S. Mullin

**APPROVED** by the BOARD OF COUNTY COMMISSIONERS, this 23rd day of September, 2019.

BOARD OF COUNTY COMMISSIONERS  
NASSAU COUNTY, FLORIDA

  
\_\_\_\_\_  
Justin M. Taylor  
Chairman

Attestation: Only to Authorize as to Chairman's Signature:

  
\_\_\_\_\_  
JOHN A. CRAWFORD  
Its: Ex-Officio Clerk

MES  
09.24.19



ATTACHMENT A

Scope of Services

Fiscal Year 2020  
Operation, Monitoring, Maintenance, and Reporting  
for the  
Landfill Gas Collection and Control System  
at the  
West Nassau Class I Landfill

County Contract Number: CM2685-WA03 ✓  
S2Li Project Number: 19-840

Work Authorization Service Period: Fiscal Year 2020 (October 1, 2019 through September 30, 2020)

This Work will provide for the operation, monitoring, maintenance, and reporting of the Landfill Gas (LFG) Collection and Control System (CCS or LFGCCS) at the West Nassau Landfill. The existing systems at the Landfill consist of approximately 50 vertical gas wells, 5 condensate pump station, 12 condensate connections to the leachate collection system risers, LFG header and lateral piping, control valves, 2 air compressors, blower and control station, and 1 candlestick flare. Under the scope of work for this Contract, S2L, Incorporated (S2Li) and its team of subconsultants shall perform four categories of service during a service time period, beginning on the contract date, which includes the following:

- Task 1 a) Routine operation and monitoring of the blower flare station, extraction well system, and conveyance piping;
- b) Annual LFG Flare Visible Emission Testing; and
- c) Reporting.
- Task 2 Non-routine scheduled maintenance.
- Task 3 Non-routine unscheduled emergency services.
- Task 4 Parts and subcontractors for non-routine services.
- Task 5 Miscellaneous Services.

It should be noted that this scope of services is for the period of October 1, 2019 through September 30, 2020. ✓

County Responsibilities

In general, the County shall:

1. Provide access to the site at reasonable times.
2. Provide S2Li with records and copies of previous operations and monitoring reports, permits, maintenance reports, past semi-annual and annual reports to regulatory agencies, operation and maintenance manuals, operations plans, and correspondences to and from regulatory agencies.
3. Provide a Landtec GEM2000, GEM5000, or equivalent to measure LFG flow rates, composition, and pressures at each wellhead, header/lateral piping and at the flare stations. The County is responsible for satisfying the manufacturer's recommended factory maintenance of the instrument (every six months for the GEM2000 or every 12 months for the GEM5000), as well as any unscheduled repair or

maintenance of the instrument). If the County cannot provide a calibrated gas measuring unit, S2Li will provide a unit and bill the County as a rental unit under Task 4.

4. Provide, replace, and store the Flare Station LFG flow chart. A continuous LFG flow monitoring system and recorder must continue to be provided and be maintained in order to comply with monthly greenhouse gas (GHG) monitoring.
5. Respond to system dialer alert and alarms such as flare outages, blower shutdown, etc. and attempt to determine system fault and, if possible, restart the system. If the system cannot be restarted to normal continuous operations, notify S2Li to assist as provided under Task 3.
6. Record information into Startup, Shutdown, and Malfunction (SSM) Plan forms and provide to S2Li. Report to S2Li any necessary changes.
7. By March 1<sup>st</sup> of each year, provide S2Li any necessary records for the Title V annual operating report (due April 1<sup>st</sup> of each year).
8. Provide monitoring and reporting of the landfill's perimeter gas probes to the Florida Department of Environmental Protection (FDEP) per Section 2 -Specific Condition No. E4 (July 2015 Permit) of the closure and long-term care permit.
9. Check the air compressor systems.
10. Replace or maintain compressed (nitrogen or air) gas canisters for the operation of the automatic control valves and propane gas canisters for the operation of the flare.
11. Provide for additional spare parts or other equipment if not sufficiently budgeted under this work authorization.
12. Pay for any required permit fees and the Title V Annual Emission Fee Invoice.

The West Nassau LFG Collection System is operated to vent all collected LFG to an open flare operated in compliance with New Source Performance Standards (NSPS) requirements. In the event that the collection system is inoperable, it will be shut down and any valves in the LFGCCS contributing to the venting of gas to the atmosphere will be closed within one hour. NSPS operational and testing requirements apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction does not exceed five days for collection systems and does not exceed one hour for treatment and control devices (i.e. flares).

### **Schedule**

Work under the Scope of Services provided below will begin October 1, 2019 and run through this service period ending September 30, 2020.

### **Cost Estimate**

The cost estimate to conduct the Work as described in the below-listed Scope of Services is \$188,485.10. A detailed breakdown for each task with the estimated labor hours and expenses is included in the attached Exhibit 1. Costs will be invoiced on a time and materials basis. The County will be notified when the overall project budget is nearing its limit.

### **Scope of Services**

#### **Task 1 – Routine Operation, Monitoring, Adjustments, and Reporting**

The LFG collection and control systems for the West Nassau Landfill will be operated, maintained, and monitored in accordance with NSPS requirements per 40 Code of Federal Regulations (CFR) 60 Subpart WWW, including pertinent calibrations, monitoring, and reporting. Operation and monitoring will include, but not be limited to,

the following schedule:

### 1.1 Blower/Flare Station

#### A. Monthly Blower/Flare Station Checks

S2Li will visit the site once per month to perform the following services:

1. Measure and record LFG composition (methane, carbon dioxide, oxygen, and balance gas percent by volume), pressure, and temperature at the flare inlet. This information will be utilized as a part of the annual GHG reporting requirements.
2. Record LFG flow rate to the flare and thermocouple temperature as displayed on the chart recorder or control panel indicator.
3. Measure and record the pressure at the condensate knockout pot, the blower inlet and outlet, the flame arrester inlet and outlet, and the pressure drop across the flame arrester.
4. Adjust the system to increase or decrease the LFG flow depending on the monitoring data to maintain proper gas quality and provide sufficient vacuum to the extraction system.
5. Minor items such as damaged monitoring ports and temperature gauges will be repaired or replaced when encountered. Major repair problems will be reported to the County immediately and covered under Task 2 as appropriate.
6. Check the flare pilot system and propane cylinder levels.
7. Check compressed nitrogen or air cylinder levels for operation of the main automatic control valves.
8. Observe and record any problems with equipment including any flare shutdowns. Check and adjust controller setpoints.
9. Check air compressors' operation including above-ground airlines.
10. Check and add grease (if needed) for the blower bearings.

#### B. Quarterly Blower/Flare Station Checks

S2Li will visit the site quarterly (may be conducted during a normal monthly visit) to do the following:

1. Compressors' belt replacement (as needed).
2. Blow out compressors' airline (as needed).
3. Replace blower bearing grease. Services required will be addressed under Tasks 2 and 4.

#### C. Annual Blower/Flare Station Checks

S2Li will visit the site once per year to do the following:

1. Conduct a system test in cooperation with the County. Test all blower/flare controls, meters, chart recorders, and automatic feature functions including startup and shutdown checks, emergency shutdown valve function, and emergency call-out check.
2. Calibrate gas flow meters. (Provide County with calibration certification documentation.)
3. Check and clean the flare flame arrester and knock-out pot.
4. Clean the UV eye in the flare stack.

## 1.2 LFG Extraction System

### A. Monthly LFG Extraction Systems Checks and Tuning

S2Li will visit the site at least once per month to do the following:

1. All system components shall be checked for proper operation in accordance with NSPS requirements 40 CFR 60.
2. Perform preventive and corrective maintenance relative to the LFG Extraction Systems in accordance with applicable federal and state laws, regulations, and permits and generally accepted or recommended industry maintenance practices, procedures and standards. Additional adjustments may be required to address odor concerns. Note: This service may be required under Tasks 2, 3, and 4.
3. At each well extraction point, the following shall be measured and/or observed and recorded.
  - a. LFG flow rate.
  - b. LFG composition (methane, carbon dioxide, oxygen, and balance gases). Oxygen levels above 5 percent shall be noted and addressed per NSPS requirements.
  - c. LFG pressure - Pressures shall be noted and addressed per NSPS requirements. *(Note: Since the landfill was closed with the use of geomembrane or synthetic cover, positive pressures are allowed. However, the facility will be tuned such that each well will be pulling a vacuum, if possible).*
  - d. LFG temperature - Temperatures equal to or above 131 degrees Fahrenheit shall be noted and addressed per NSPS requirements.
  - e. The condition of the wellhead piping and well bore seal condition at the landfill surface.
  - f. In conjunction with the once per month monitoring, adjustments to the system shall be made as required to maintain odor control, system balance, and NSPS compliance. If pressure, composition, and temperature exceedances as noted above cannot be corrected within 15 days by adjusting the system, S2Li will notify the County and the FDEP. A plan will be developed by S2Li with County input and with the Subcontractor's assistance, to correct the exceedance within 120 calendar days. Any such corrective actions shall be conducted in accordance with Tasks 2, 3, and 4.
  - g. Check condensate handling system for proper operation. Perform an external inspection of condensate sumps, condensate traps, pump stations, and condensate discharge locations. Where the pumps discharge to an above-ground well riser or below ground injection system, visually confirm that liquid is being pumped.
  - h. Report to the County within 24 hours of measurement or observation, any abnormal readings of LFG temperature (131 degrees Fahrenheit or greater, oxygen levels above 5 percent) or other observations (such as a smoky odor or substantial waste settlement) which may be indicative of a subsurface landfill fire. This reporting procedure is not necessary for wells operating under an "Alternative Operating Procedure (AOP)" as allowed under the Title V permit.

There may be a need for follow-up work related to retesting after adjustment to the wellfield system, per NSPS requirements, or for any corrections to the system. One additional day per month has been budgeted for retesting of wells and connections points found to be out of compliance during the routine monthly monitoring event. This work does not include any non-routine services, or the purchase and installation of required parts and supplies included under Tasks 2, 3 and 4.



## B. Annual LFG Extraction System Checks

S2Li will visit the site once per year to perform the following services:

1. Condensate pumps shall be pulled and inspected with some pumps requiring more in-depth servicing due to their particular environment
2. Exercise all valves annually.  
The wellhead valves will be exercised on an annual basis. If it reaches a point where five valves failed the exercising procedure, the exercising of the valves will be discontinued until after the valves are either repaired or replaced. Upon approval by the County, work to repair or replace the items identified under this task will be billed under Tasks 2 and 4 assuming sufficient funds are available.
3. Surface Emission Testing (Annual Testing)  
The West Nassau Landfill gas collection and control system is operated to prevent methane concentrations from exceeding 500 parts per million by volume (ppm<sub>v</sub>) above background levels at the surface of the landfill. To determine if this level is exceeded, surface testing is performed around the perimeter of the collection area and along a pattern that traverses the landfill at 30-meter intervals including at each well location, and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. A surface monitoring design plan has been developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. A monitoring probe will be kept within 2 to 4 inches of the landfill surface while continuous sampling is performed. Surface emissions testing is performed using an NSPS-compliant portable monitor and in compliance with all NSPS procedures. Results from the surface monitoring will be included in the semi-annual NSPS report submitted to FDEP. The testing day will be scheduled during typical weather conditions for the time of year but may need to be changed due to forecasted heavy rains or unseasonably high winds.

Because no exceedances have occurred in at least the past three quarterly surface emission monitoring periods, the County is allowed to reduce the frequency of surface testing to once per year, as long as there are no additional exceedances recorded during subsequent testing periods. If exceedances do occur, additional testing periods will be required. These additional testing or retesting events are not included in this scope of services and can be provided as an additional service or provided as a component of unscheduled maintenance, as described within Task 2.

Any reading of 500 ppm<sub>v</sub> or more above background measured at any location during the surface emissions testing is recorded as a monitored exceedance. In the event of exceedance, the County will be notified, and corrective actions implemented as described below. The exceedance is not a violation of the NSPS operational requirements as long as the following actions are taken:

- The location of each monitored exceedance will be marked and the location recorded;
- Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the LFG collection in the vicinity of each exceedance will be made and the location will be retested within ten calendar days of the initial exceedance;
- If retesting of the location shows a second exceedance, additional corrective action(s) will be taken and the location will be monitored again within ten days of the second exceedance;
- Any location that initially showed an exceedance but has a methane concentration less than 500 ppm<sub>v</sub> methane above background at the time of the ten-day retesting, will be retested one month from the initial exceedance. If the one-month retesting shows a concentration



of less than 500 ppm<sub>v</sub> above background, no further monitoring is required until the next quarterly monitoring period. If the one-month retesting shows an exceedance, corrective action will be taken and the location will be monitored within ten days of the second exceedance, or additional corrective actions (listed below) will be taken; and

- For any location where monitored methane concentrations equal or exceed 500 ppm<sub>v</sub> above background three times within a quarterly period, corrective actions will be taken. Corrective actions will include a new well or other collection devices that will be installed within 120 days of the initial exceedance. An alternative remedy, if approved, may include upgrading the blower(s), header pipe(s), and/or control device(s).

### **1.3 Annual LFG Flare Visible Emission Testing and Reporting (by August 2020)**

For the flare, the following is to be completed:

- A. Prepare a notification letter for submittal by the County to the FDEP. Notification is required to be submitted 15 days before testing begins.
- B. Conduct a visible emissions test for each flare in accordance with the U.S. Environmental Protection Agency (USEPA) Method 22. The maximum allowable visible emissions may not exceed 20 percent.
- C. Prepare a test report summarizing the test requirements, conditions during the test, and test results. The report shall include the information required by Chapter 62-297, Florida Administrative Code (F.A.C.), and U.S. EPA Method 22. A draft of the report will be submitted to the County for review within 15 days of completion of the test. After review and approval by the County, the final report will be submitted to FDEP within 30 days of the test.

### **1.4 Reporting**

#### **A. Monthly Reporting**

- i. A summary report shall be submitted to the County around the 15<sup>th</sup> of each month summarizing the previous month of operation including the NSPS report utilizing an online data base program.
- ii. All wellhead monitoring data required under the NSPS shall be kept on file and stored/backed-up off-site as part of the online database system. The monthly report shall include wellhead readings of gas composition (methane, carbon dioxide, oxygen, and balance gas), pressure, temperature, and flow rate. Readings and comments shall also be included for rechecks of wells that are out of compliance with the NSPS wellhead operating criteria. The report shall detail the cause of the non-compliance, all remedial actions taken to correct the non-compliance, any future work that may be necessary to keep the wells in compliance with the NSPS requirements, and any other information as required under this Task.
- iii. Flare station data to be included in the report shall include gas composition and temperature, vacuum applied to the header system, and flow rate.
- iv. Any condensate management system monitoring data shall also be provided in the monthly report.
- v. The monthly report shall detail all work conducted and confirm the system is being maintained in compliance with the NSPS. Any corrections conducted on the system or required to be conducted shall be listed. The report shall include a narrative summary of any significant trends in the monitoring data and explanations of anomalous data. Recommendations shall also be provided regarding potential non-routine repairs that are anticipated.

## B. Semi-Annual Reporting

This task addresses the semi-annual reports required by the facility's Title V Operation Permit. These reports will be prepared for submittal by the following dates:

- 2019 Second Semi-Annual Report (July 1 through December 31, 2019): by January 30, 2020.
- 2020 First Semi-Annual Report (January 1 through June 30, 2020): by July 30, 2020.

### i. Semi-Annual NSPS Report

S2Li will prepare semi-annual reports required under 40 CFR 60.757(f) and (g), and will include the following information:

- Value and length of time for exceedance of applicable monitoring parameters.
- Description and duration of all periods when the control device was not operating for a period exceeding one hour and the length of time the control device was not in operation.
- List of periods when the collection system was not operating in excess of five days.
- Description and duration of all periods when the gas stream was diverted from the control device through the bypass line.
- The location of each exceedance of the 500 ppm<sub>v</sub> volatile organic compounds (VOC) as methane surface-emission criteria.
- A diagram of the collection system showing all wells and collectors, including the areas excluded from collection and the areas into which the system is added in the future. This diagram will be provided by the County and include all new work that occurred during the reporting period.

### ii. Semi-Annual SSM Report

S2Li will prepare semi-annual reports which will include the number of SSM events and whether or not SSM Plan procedures were followed. This information will be incorporated into the semi-annual NSPS report. Any changes required to be made to the SSM Plan are not included in this scope of services.

### iii. Semi-Annual Statement of Compliance Form Submittal

S2Li will prepare and provide the Title V Statement of Compliance in draft form for County review on a semi-annual basis. After addressing any County-suggested improvements, the final form will be submitted to the County for signature by the County's Responsible Official. This information will be incorporated into the semi-annual NSPS report.

### iv. Report Submittal

S2Li will provide one draft copy of the NSPS report for the County's review. Upon receipt of comments from the County, S2Li will submit one copy of the signed semi-annual reports to FDEP, and one copy for the County's files. Additionally, an electronic copy of the report will also be provided to each recipient.

## C. Annual Reporting

1. GHG Reporting. West Nassau Landfill has been subject to the requirements of Title 40 of the Code of Federal Regulations (CFR), Part 98: Mandatory GHG Reporting because it emits GHG in amounts greater than 25,000 metric tons or more of carbon dioxide equivalent (MTCO<sub>2e</sub>) per year. As a result, the County has been collecting data and submitting GHG emission reports every year before March 31<sup>st</sup> following the year of data collection. S2Li shall utilize the eGGRT

reporting tool available on-line from the USEPA to report GHG emissions. S2Li shall respond to any questions from USEPA related to this submittal.

2. Annual Title V Operating Report Submission and Emissions Fee. S2Li shall prepare the required annual operating report for the West Nassau Landfill, and submit the report prior to April 1, 2020 for the reporting calendar year 2019. A draft of the report shall be submitted to the County for its review, any improvements implemented, and the final submitted electronically via the FDEP electronic annual operating report (EAOR) submittal process. S2Li shall respond to any questions from FDEP related to this submittal.

As part of the new process developed by the FDEP, the emissions fee will be calculated by FDEP's EAOR software at the time of submission of the annual operating report. S2Li shall provide the County with a copy of the fee invoice to be paid to FDEP at least three weeks prior to the April 1<sup>st</sup> deadline to assist in the payment of the fees. S2Li shall respond to any questions from FDEP related to this submittal.

3. Annual Title V Statement of Compliance. S2Li shall prepare the Statement of Compliance report and associated documentation and calculations demonstrating/documenting the site's compliance with its Title V permit during calendar year 2019. This report will be submitted prior to the April 1<sup>st</sup> deadline and will list any deviations of the regulatory requirements. The report and associated back-up material shall be reviewed in draft form by County representatives, improvements implemented, and the final statement submitted to FDEP. S2Li shall respond to any questions from FDEP related to this submittal.
4. On-Line Data Management System. S2Li is to provide and maintain an online data management system. S2Li is to input data in the data management system collected during the services conducted under Task 1. County staff will be given access to the system. The County is paying for an annual license to be prorated in monthly payments. Should the County decide to cancel the license before the year of the fiscal year, the County will be required to pay the balance of the licensing costs.

## **Task 2 – Non-Routine Scheduled Maintenance**

- A. S2Li's duties under this section shall include non-routine scheduled maintenance consisting of corrective repair or maintenance work identified during the monthly monitoring. This work shall include but not be limited to:
  1. Header and lateral pipe realignment.
  2. Determining water levels in wells.
  3. Adding pumps to wells.
  4. Resetting of pipe supports.
  5. Repairing of broken valves.
  6. Replacing well heads.
  7. Replacing flex hoses (e.g., torn, degraded, needs extension).
  8. Overseeing the repair of all items associated with the landfill cap which resulted from the repair or movement of header pipes and/or lateral lines.
  9. Overseeing the repair of landfill closure liner cap system.
  10. Adding new monitoring ports as needed to measure pressure levels.
  11. Repairing or replacing damaged or broken monitoring ports, valves, couplings, thermometers, and clamps.

12. Cleaning and adjusting of the flame arrester.
13. Cleaning and adjusting condensate pumps and components.
14. UV eye cleaning.
15. Replacing flare station components such as thermocouples, etc.
16. Replacing or cleaning the filter within the Knockout Pot at the Flare Station.
17. LFG analytical sampling.
18. Replacing or maintaining propane tanks for the operation of the ignition systems.
19. Providing rental equipment.
20. Changing bearing grease for the blower (quarterly).
21. Having LFG flow meter removed, calibrated, and reinstalled. A temporary rental meter may be required to be installed and removed.
22. Assessing, ordering, and/or replacement of parts.

B. This type of work under Task 2 is critical for system operation and the required services are difficult to predict during a contract service period. Some of these services under Task 2 may be provided by a specialized subcontractor. The number of authorized hours may exceed the amount budgeted for this work authorization due to the level of effort required under this Task 2. These additional hours may potentially utilize a portion of the budget allocated for parts or other services. Payment for Task 2 shall be billed at the contract hourly rate. All parts and/or rental equipment are to be paid at the delivered cost. S2Li shall submit a copy of the invoice for the parts used for price verification along with the invoice submitted to the County for payment under Task 4 – Parts and Subcontractors for Non-Routine Services, unless the County elects to provide a Purchase Order for the direct purchase of a part. Should a Subcontractor be required for construction-related work, it must be authorized in writing by the County under Task 4 – Parts and Subcontractors for Non-Routine Services. The total costs for the services provided under this task are limited to the budgeted amount under this task. If the costs for services is expected to exceed the budget amount or amount remaining under this task, S2Li will notify the County and alternative funding will be obtained.

### **Task 3 – Non-Routine Unscheduled Emergency Services**

S2Li duties under this task include events that require immediate response to assist County personnel. Due to the urgent nature of these items, they cannot be scheduled. The events and services under this task could include, but are not limited to:

- a. Blower/Flare Station shut down;
- b. Repair of main header or lateral line breaks;
- c. Response to odor complaints;
- d. Installing replacement extraction wells;
- e. Repair/maintenance and troubleshooting of the blowers and flare; and
- f. The detection of LFG migration.

Sampling of LFG composition and pressures within various locations of the header pipe may also be necessary to diagnose problems within the LFG collection system, such as condensate accumulation, pipe obstructions, broken valves, etc.

S2Li is available to be contacted 24 hours a day, 7 days a week and, if required, will usually be on-site within 24 hours of notification.

S2Li Contact: Omar E. Smith, P.E., V.P.,  
Regional Manager  
Tel: 407-475-9163  
Cell: 770-330-1638

Work under this task shall be conducted upon authorization by the County and shall be billed at the hourly contract rate for Task 3. All parts are to be paid at the delivered cost. Should a Subcontractor be required for specialty related work, it must be authorized in writing by the County under this Task 3 or Task 4 – Parts and Subcontractors for Non-Routine Services.

The total costs for the services provided under this task are limited to the budgeted amount under this task. If the costs for services is expected to exceed the budget amount or amount remaining under this task, S2Li will notify the County and alternative funding will be obtained.

#### **Task 4 - Parts and Subcontractors for Non-Routine Services**

- A. Required parts and/or rental equipment provided by S2Li's services under Tasks 2 and 3 are to be paid under Task 4. All parts or equipment are to be paid at the delivered cost. S2Li shall submit a copy of the invoice for the parts or rental equipment used for price verification along with the invoice submitted to the County for payment from the funds allocated for Task 4 – Parts and Subcontractors.
- B. Should S2Li require a Subcontractor for specialty related work such as realignment of lateral and headers lines, repairs to the Flare Station, or repair to the liner cap system, etc., an estimate for the Subcontractor's work must be submitted to the County for review and approval. The Subcontractor's work must be authorized by the County. No work shall be conducted under this task unless authorized, in writing, by the County.
- C. S2Li shall submit a copy of the Subcontractor's invoice for price verification along with S2Li's invoice. The total costs for the services provided under this task are limited to the budgeted amount under this task. If the costs for services are expected to exceed the budget amount or amount remaining under this task, S2Li will notify the County and alternative funding will be obtained.

#### **Task 5 – Miscellaneous Services**

S2Li is to provide miscellaneous services to address assignments by the County including updating of existing reports, preparation of new reports, addressing rule changes, etc. The total work effort is limited to the budget limit provided in this work authorization.

\*\*\*\*\*

24-Jul-19

EXHIBIT 1

Service Period Estimate

Fiscal Year 2020 (October 1, 2019 through September 30, 2020)

Operation, Monitoring, Maintenance, and Reporting

Landfill Gas Collection and Control System

West Nassau Class I Landfill

Nassau County, Florida

S2Li No.: 19-840

Nassau County No.: CM2685-WA03

Total Project Costs

S2Li Fee Estimate

LABOR		LABOR CATEGORY AND RATE										TOTAL HOURS	SUBTOTAL LABOR	
		Project Dir./ Principal	Regional Manager/ QC Officer	Principal Engineer	Senior Engineer	Project Engineer	Associate Engineer/CADD	Field Technician						Office Manager
TASK	DESCRIPTION	\$250.00	\$232.25	\$190.26	\$137.09	\$97.92	\$74.21	\$52.38				\$76.24		
1	Routine Operation, Monitoring, Adjustments, and Reporting	23	151	0	46	100	300	0				40	660	\$82,230.49
1.1	Blower/Flare Station ( 12 events)	0	24	0	0	12	12	0				0	48	\$7,639.56
1.2	LFG Extraction System (2/month; 24 events)	12	48	0	24	48	240	0				12	384	\$40,863.60
1.3	LFG Flare Emission Test and Reporting- Method 22 ( 1 event)	1	3	0	4	0	0	0				2	10	\$1,647.59
1.4	Reporting													\$0.00
1.4A	Monthly (12 events)	6	48	0	12	24	36	0				12	138	\$20,229.60
1.4B	Semi-Annual (2 events)	2	16	0	4	8	8	0				12	50	\$7,056.28
1.4C	Annual Title V Operating Report/GHG Report/SOC	2	12	0	2	8	4	0				2	30	\$4,793.86
2	Non-Routine Scheduled Maintenance	2	24	0	6	36	96	0				1	165	\$17,622.06
3	Non-Routine Unscheduled Emergency Services	2	16	0	0	8	8	0				1	35	\$5,669.28
4	Parts and Subcontractors for Non-Routine Services	0	8	0	8	0	4	0				2	22	\$3,404.04
5	Miscellaneous Services	1	12	0	8	0	0	0				2	23	\$4,286.20
	<b>SUBTOTALS:</b>	<b>28</b>	<b>211</b>	<b>0</b>	<b>68</b>	<b>144</b>	<b>408</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>905</b>	<b>\$113,212.07</b>

EXPENSES		Field Vehicle (\$100/day) (Attach. 2)	Lab Testing (est.)	Equipment Rental (est.) (Attachment 2)	Parts (est.) (Attachment 2)	Landtec Web Data Base (Attachment 2)	Grove Scientific (see Attachment 1)	Subcontractors (est.) (Attachment 2)						SUBTOTAL EXPENSES
1	Routine Operation, Monitoring, Adjustments, and Reporting													\$ -
1.1	Blower/Flare Station ( 12 events)													\$ -
1.2	LFG Extraction System (2/month; 24 events)	\$ 2,400.00					\$ 6,392.76							\$ 8,792.76
1.3	LFG Flare Emission Test and Reporting- Method 22 ( 1 event)						\$ 1,991.32							\$ 1,991.32
1.4	Reporting													\$ -
1.4A	Monthly (12 events)					\$ 6,300.00								\$ 6,300.00
1.4B	Semi-Annual (2 event)						\$ 13,246.76							\$ 13,246.76
1.4C	Annual Title V Operating Report/GHG Report						\$ 10,602.19							\$ 10,602.19
2	Non-Routine Scheduled Maintenance	\$ 1,200.00			\$ 500.00									\$ 1,700.00
3	Non-Routine Unscheduled Emergency Services				\$ 2,100.00				\$ 9,540.00					\$ 11,640.00
4	Parts and Subcontractors for Non-Routine Services			\$ 3,100.00	\$ 4,500.00				\$ 13,400.00					\$ 21,000.00
5	Miscellaneous Services													\$ -
	<b>SUBTOTALS:</b>	<b>\$ 3,600.00</b>	<b>\$ -</b>	<b>\$ 3,100.00</b>	<b>\$ 7,100.00</b>	<b>\$ 6,300.00</b>	<b>\$ 32,233.03</b>	<b>\$ 22,940.00</b>						<b>\$ 75,273.03</b>

ESTIMATED FEE BY LANDFILL FOR COUNTY ACCOUNTING PURPOSES:				COST SUMMARY					
				TASK	DESCRIPTION	SUBTOTAL LABOR	SUBTOTAL EXPENSES	TASK TOTAL	
West Nassau Class I Lined Landfill (42 acre area):	\$ 145,133.53	77%		1	Routine Operation, Monitoring, Adjustments, and Reporting	\$82,230.49	\$40,933.03	\$123,163.52	
West Nassau Unlined Landfill (11 acre area):	\$43,351.57	23%		2	Non-Routine Scheduled Maintenance	\$17,622.06	\$1,700.00	\$19,322.06	
Total:	\$ 188,485.10	100%		3	Non-Routine Unscheduled Emergency Services	\$5,669.28	\$11,640.00	\$17,309.28	
				4	Parts and Subcontractors for Non-Routine Services	\$3,404.04	\$21,000.00	\$24,404.04	
				5	Miscellaneous Services	\$4,286.20	\$ -	\$4,286.20	
				<b>TOTALS</b>			<b>\$113,212.07</b>	<b>\$75,273.03</b>	<b>\$188,485.10</b>

① 01362534 - 531325 \$146,000 Budgeted - \$145,133.53 Balance \$866.47 77%

② 01361534 - 531325 \$44,000 Budgeted - \$43,351.57 Balance \$648.43 23%

**Service Period Estimate**  
 Fiscal Year 2020 (October 1, 2019 through September 30, 2020)  
**Operation, Monitoring, Maintenance, and Reporting**  
**Landfill Gas Collection and Control System**  
 West Nassau Class I Landfill  
 Nassau County, Florida

**Attachment 1 - GROVE Scientific Fee Estimate - Subconsultant**

LABOR		LABOR CATEGORY AND RATE									TOTAL HOURS	SUBTOTAL LABOR
		Sen. Scientist/ Principal	Sen. Engineer/ Profession Engineer	Professional Geologist	Environ. Scientist	Environ. Specialist	Technician			Para. Professional		
TASK	DESCRIPTION	\$126.57	\$225.00	\$57.92	\$84.38	\$70.38	\$35.40			\$59.67		
1	<b>Routine Operation, Monitoring, Adjustments, and Reporting</b>	51	9	0	255	0	20			0	335	\$31,773.03
1.1	Blower/Flare Station (2/month; 12 total)	0	0	0	0	0	0			0	0	\$0.00
1.2	LFG Extraction System (Surface Emission Testing, 1 event)	12	1	0	48	0	0			4	65	\$6,032.76
1.3	LFG Flare Emission Test and Reporting- Method 22 ( 1 event)	12	0	0	3	0	0			2	17	\$1,891.32
1.4	Reporting											
1.4A	Monthly (12 events)	0	0	0	0	0	0			0	0	\$0.00
1.4B	Semi-Annual (2 event)	12	8	0	112	0	0			8	120	\$13,246.76
1.4C	Annual Title V Operating Report/GHG Report	15	0	0	92	0	20			4	131	\$10,602.19
2	<b>Non-Routine Scheduled Maintenance</b>	0	0	0	0	0	0			0	0	\$0.00
3	<b>Non-Routine Unscheduled Emergency Services</b>	0	0	0	0	0	0			0	0	\$0.00
4	<b>Parts and Subcontractors for Non-Routine Services</b>	0	0	0	0	0	0			0	0	\$0.00
5	<b>Miscellaneous Services</b>											
	<b>SUBTOTALS:</b>	<b>51</b>	<b>9</b>	<b>0</b>	<b>255</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>335</b>	<b>\$31,773.03</b>

EXPENSES		Field Vehicle (\$100/day)	Lab Testing (est.)	Equipment Rental (est.)	Parts (est.)	Landtec Web Data Base (\$500/m)	Subcon-tractors (est.)					SUBTOTAL EXPENSES
TASK	DESCRIPTION											
1	<b>Routine Operation, Monitoring, Adjustments, and Reporting</b>	\$ 460	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$460
1.1	Blower/Flare Station (2/month; 12 total)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.2	LFG Extraction System (Surface Emission Testing, 1 event)	\$ 360	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 360
1.3	LFG Flare Emission Test and Reporting- Method 22 ( 1 event)	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100
1.4	Reporting											
1.4A	Monthly (12 events)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.4B	Semi-Annual (2 event)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.4C	Annual Title V Operating Report/GHG Report	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	<b>Non-Routine Scheduled Maintenance</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	<b>Non-Routine Unscheduled Emergency Services</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	<b>Parts and Subcontractors for Non-Routine Services</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	<b>Miscellaneous Services</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>SUBTOTALS:</b>	<b>\$ 460</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 460</b>
<b>TOTAL</b>											<b>\$32,233.03</b>	



Service Period Estimate  
 Fiscal Year 2020 (October 1, 2019 through September 30, 2020)  
**Operation, Monitoring, Maintenance, and Reporting**  
**Landfill Gas Collection and Control System**

West Nassau Class I Landfill  
 Nassau County, Florida

Attachment 2 - Estimate of Parts, Rental Equipment, Sullivan Environmental, Subcontractors, Misc.

Parts, Rental Equip., Subcontractors, Misc. Cost Estimate												FY2016
No.	Item/Event	Manufacturer or Subcontractor	\$/Item or Event	Item or Event Type	No. of Items or Events	Total Cost	Costs Under		Costs Under		Costs Under	
							Task 1	Task 2	Task 3 -Exp	Task 3 -Sub	Task 4-Exp	Task 4-Sub
1.	GEM5000 Rental		\$ 250	per day	4	\$ 1,000						\$ 1,000
2.	Blower/Motor Belt (est)		\$ -	ea.	0	\$ -						\$ -
3.	Blower Replacement Grease & Disposal	Sullivan Envir.	\$ 1,500	per event	4	\$ 6,000						\$ 6,000
4.	Flow Meter Calibration											
	- Manufacturer Calibration & Rental Costs	Thermal Instr.	\$ 1,200	per event	1	\$ 1,200						\$ 1,200
	- Field Removal and Install Costs	Sullivan or S2Li	\$ 1,275	per event	2	\$ 2,550						\$ 2,550
5.	Flare Station Check/Maintenance											
a.	- UV Eye Cleaning and visual inspection											
	Rental - Manlift	Rental	\$ 900	per event	1	\$ 900						\$ 900
	Labor	Sullivan Envir.	\$ 2,100	per event	1	\$ 2,100						\$ 2,100
	- Mob/Demob	Sullivan Envir.	\$ 1,200	per event	1	\$ 1,200						\$ 1,200
b.	- Cleaning of knock-out pot filter	Sullivan Envir.	\$ -	per event	1	\$ -						\$ -
c.	- Cleaning of flare arrestor	Sullivan Envir.	\$ -	per event	1	\$ -						\$ -
d.	- System Check - Mics Equipment & Parts	Sullivan Envir.	\$ 200	per event	1	\$ 200						\$ 200
6.	Condensate Pump - Shop Cleaning/Repair	Sullivan	\$ 350	per event	1	\$ 350						\$ 350
7.	GW-6 or 11 Type Repair											
a.	Parts	Isco	\$ 800	per event	2	\$ 1,600			\$ 1,600			
b.	Labor	Sullivan Envir.	\$ 1,020	per event	2	\$ 2,040				\$ 2,040		
8.	Sullivan Envir. Mob/Demob	Sullivan Envir.	\$ 1,200	per event	1	\$ 1,200				\$ 1,200		
9.	Emergency Subcontractor Services		\$ 3,000	ea.	1	\$ 3,000				\$ 3,000		
10.	Miscellaneous Costs	Sullivan Envir.	\$ 1,300	per event	1	\$ 1,300				\$ 1,300		
	<b>Total Cost Estimate</b>					<b>\$ 24,640</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,600</b>	<b>\$ 7,540</b>	<b>\$ 3,100</b>	<b>\$ 12,400</b>
	<b>Other</b>											
1.	Truck Rental		\$ 100	per day	36	\$ 3,600	\$ 2,400	\$ 1,200				
2.	Landtec Database	Landtec	\$ 525	per month	12	\$ 6,300	\$ 6,300					
3.	Spare Parts											
a.	Parts - Miscellaneous		\$ 2,000	ea.	1	\$ 2,000					\$ 2,000	
b.	Parts - Wellheads		\$ 500	ea.	4	\$ 2,000					\$ 2,000	
	Total Parts		\$ 2,500			\$ 4,000	\$ -	\$ -	\$ -		\$ 4,000	
4.	Miscellaneous or Identifiable Costs					\$ 4,500	\$ -	\$ 500	\$ 500	\$ 2,000	\$ 500	\$ 1,000
<b>TOTAL</b>						<b>\$ 43,040</b>	<b>\$ 8,700</b>	<b>\$ 1,700</b>	<b>\$ 2,100</b>	<b>\$ 9,540</b>	<b>\$ 7,600</b>	<b>\$ 13,400</b>



Quote

ECOTEC  
850 S Via Lata, Suite 115  
Colton, CA 92324  
(909) 906-1001

0002113  
QUOTE DATE:: 7/23/2019  
SALESPERSON: SW  
CUSTOMER NUMBER: 20-5101680

QUOTE Expiration Date: 1/23/2020

SOLD TO:  
S2L Incorporated  
531 Versailles Drive  
Suite 202  
Maitland, FL 32751

SHIP TO:  
S2L Incorporated  
531 Versailles Drive  
Suite 202  
Maitland, FL 32751

Confirm To: Greg Brunson - GBrunson@S2LI.com

CUSTOMER PO#	SHIP VIA	F.O.B.	TERMS
			NET 30

ITEM	ORDERED	SHIPPED	BACKORDER	UNIT PRICE	EXTENSION
/SW-SUB-MONTHLY Software Subscription Monthly					6,300.00

**Envirocomp - monthly service charge of \$525 for the West Nassau Landfill site  
Commencing - October 1, 2019 - September 30, 2020  
The amount is the annualized amount based on the monthly fee.  
No fee increase for fiscal year ending 2020**

Net Order: 6,300.00  
Less Discount: 0.00  
Estimated Freight: TBD  
Sales Tax: 0.00

Thank you for your business!

TERMS: · Signature below acknowledges acceptance of ECOTEC's Standards Terms & Conditions. · Net 30 Days; Past 30 Days 1.5% per month interest. · FOB Shipping Dock unless otherwise noted. · This quote is valid for 30 days from date of issue. · All Payments will be paid in U.S. Currency. · Applicable sales tax and shipping & handling charges will be added to invoice. · To place this order: Please Sign, Date, Include your Purchase Order Number and Return via Fax or Email.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Purchase Order # \_\_\_\_\_

Contract Service Period: October 1, 2019 through September 30, 2020	Fiscal Year Month	FY2020											
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	April 20	May 20	June 20	July 20	Aug 20	Sept 20
<b>Routine Operation, Monitoring, Adjustments, and Reporting</b>													
<b>1. Blower/Flare Station</b>													
<u>A. Monthly Blower/Flare Station Checks</u>													
Measure and record LFG composition		•	•	•	•	•	•	•	•	•	•	•	•
Record LFG flow rate to the flare and thermocouple temperature		•	•	•	•	•	•	•	•	•	•	•	•
Measure and record pressure		•	•	•	•	•	•	•	•	•	•	•	•
Adjust the system to increase or decrease the LFG flow		•	•	•	•	•	•	•	•	•	•	•	•
Repair or replace damaged monitoring ports and temperature gauges		•	•	•	•	•	•	•	•	•	•	•	•
Check flare pilot system and propane cylinder levels		•	•	•	•	•	•	•	•	•	•	•	•
Check compressed nitrogen or air cylinder levels		•	•	•	•	•	•	•	•	•	•	•	•
Observe and record any problems with equipment		•	•	•	•	•	•	•	•	•	•	•	•
Check air compressors' operation		•	•	•	•	•	•	•	•	•	•	•	•
Open flare base drain to allow liquid to drain then close		•	•	•	•	•	•	•	•	•	•	•	•
Check and add grease		•	•	•	•	•	•	•	•	•	•	•	•
<u>B. Quarterly Blower/Flare Station Checks</u>													
Blow out compressors' airline (as needed).		•			•			•			•		
Change blower bearing grease			•			•			•			•	
<u>C. Annual Blower/Flare Station Checks</u>													
Conduct a System test						•							
Calibrate gas flow meter							•						
Check and clean the flare arrestor						•							
Check and clean knock-out pot						•							
Check and clean the UV eye in the flare stack						•							
Pull, inspect, and clean pneumatic pump						•							
<b>2. LFG Extraction System</b>													
<u>A. Monthly LFG Extraction Systems Checks and Tuning</u>													
All system components shall be checked for proper operation		•	•	•	•	•	•	•	•	•	•	•	•
Perform preventive and corrective maintenance		•	•	•	•	•	•	•	•	•	•	•	•
At each well: measured and/or observed and record the following:		•	•	•	•	•	•	•	•	•	•	•	•
LFG flow rate		•	•	•	•	•	•	•	•	•	•	•	•
LFG composition		•	•	•	•	•	•	•	•	•	•	•	•
LFG pressure		•	•	•	•	•	•	•	•	•	•	•	•
LFG temperature		•	•	•	•	•	•	•	•	•	•	•	•
The condition of the well head piping and well bore seal condition		•	•	•	•	•	•	•	•	•	•	•	•
Adjustments to the system		•	•	•	•	•	•	•	•	•	•	•	•
Check condensate handling system		•	•	•	•	•	•	•	•	•	•	•	•
Record condensate pump counters		•	•	•	•	•	•	•	•	•	•	•	•
Report within 24 hours of measurement or observation any abnormal readings		•	•	•	•	•	•	•	•	•	•	•	•
<u>B. Semiannual LFG Extraction System Checks</u>													
Condensate pumps shall be pulled and inspected (annually for all, 2 semi)			•							•			
<u>C. Annual LFG Extraction System Checks</u>													
Exercise all valves annually							•						
Surface Emission Testing							•						
<b>3. Annual LFG Flare Visible Emission Testing and Reporting</b>												•	
<b>4. Reporting</b>													
A. Monthly Reporting to County		•	•	•	•	•	•	•	•	•	•	•	•
B. Semi-Annual Reporting to FDEP													
Semi-Annual NSPS Report					•						•		
A. Annual Reporting to FDEP													
GHG Reporting							•						
Annual Title V Operating Report Submission and Emissions Fee							•						
Annual Title V Statement of Compliance							•						

FY 2019-2020 BUDGET REQUEST

Operating Expenditures Detail

WN Phase II New PC & Closure  
01362534

Vendor Name	Object	DESCRIPTION	Calculation	Contract Number	Itemized Cost	Object Class Total Cost
<b>Professional Services</b>	<b>531xxx</b>					699,934.00
S2Li	531325	LFG O&M of Flare and gas system required by West Nassau FDEP Title V Permit	* <del>CM24085</del>	CM2096	146,000.00	
S2Li	531000	Inward Gradient well monitoring & reporting required by FDEP WNLF Permit		CM2096	22,000.00	
S2Li	531000	Landfill Stabilization & WQ Tech Report Due June 2020 FDEP required		CM2096	27,000.00	
S2Li	531000	Financial Assurance Rpt FDEP required		CM2096	18,000.00	
S2Li	531000	Water Quality collection, testing & reporting as required by FDEP		CM2096	21,000.00	
S2Li	531000	Inward Gradient & Water Quality Impact Study as required by FDEP		CM2096	25,000.00	
S2Li	531000	General Engineering (other FDEP items that may arise or needed)		CM2096	25,000.00	
Amelia Urgent Care	531035	Drug Testing as needed (1) one employee	4 employees@25\$		25.00	
Water Recovery	531313	Leachate removal Water Recovery	svg 405,000 gallon/mo *12/mo plus buffer	CM2245	325,000.00	
Water Recovery	531313CSCSW	Leachate removal Water Recovery FDEP Grant Funding reimb anticipated by FDEP Grant amount of \$90,909			90,909.00	
<b>Contractual Services</b>	<b>534xxx</b>					
<b>Travel &amp; Per Diem</b>	<b>540xxx</b>	(see itemized worksheet tab)				
<b>Communications &amp; Freight</b>	<b>541xxx</b>					1,143.00
AT&T	541000	753-1340 E.Diden County Cell	12mo*50/mo		600.00	
Verizon	541000	Gps services for Synovia SWD-229	12*0.20	CM2408a1	3.00	
Verizon	541000	Verizon wireless 753-0411 (on call cell phone)	12mo*\$45/mo		540.00	
<b>Postage</b>	<b>542xxx</b>					200.00
	542000	Various Fed-Ex permit requirement mailings			200.00	
<b>Utility Services (Electric, Water/Sewer, Garbage, etc.)</b>	<b>543xxx</b>					11,880.00
FPL	543000	Flare Meter # KN37910 25% of total cost of bill other 25% budgeted in 01361534	\$600/mo*75%*12		5,400.00	
FPL	543000	NS leachate tanks mtr#KN37907 avg bill \$200*12			2,400.00	
FPL	543000	WS Pumping station mtr#AC64901 avg bill \$80*12			960.00	
FPL	543000	ES Pumping station mtr#AC64902 avg bill \$100*12			1,200.00	
FPL	543000	Maint shop at LF mtr#AC64904 avg bill \$80*12			960.00	
FPL	543000	Street light mtr#AC64951 avg bill \$40/mo*12			480.00	
FPL	543000	SS pumping station mtr#AC64951 avg bill\$40/mo*12			480.00	
<b>Rentals &amp; Leases</b>	<b>544xxx</b>					2,981.00
Airgas	544000	Rental & lease of oxygen, acetelyn tanks			815.00	
To be Determined	544000	Rental of various closure equipment as needed budgeted in 01361534, 01363534, 01364534			2,000.00	
Synovia	544000	GPS rental for closure vehicle 12*\$13.78 Synovia CM2408-A1 Unit SWD229			166.00	
<b>Insurance</b>	<b>545xxx</b>					4,775.00
	545000	Insurance on equipment Estimate based upon FY 19/20 Insurance Estimates provided by OMB			4,775.00	
<b>Repairs &amp; Maintenance</b>	<b>546xxx</b>					112,803.00



FY 2019-2020 BUDGET REQUEST

Operating Expenditures Detail

WN Phase I Old Post Closure  
01361534

Vendor Name	Object	DESCRIPTION	Calculation	Contract Number	Itemized Cost	Object Class Total Cost
Professional Services	531xxx					69,000.00
S2LI	531325	LFG O&M of Flare and gas system required by West Nassau FDEP Title V Permit	*CM2096	CM2096	44,000.00	
S2LI	531000	Inward Gradient well monitoring & reporting required by FDEP WNLF Permit		CM2096	6,000.00	
S2LI	531000	Landfill Stabilization & WQ Tech Report Due June 2020 FDEP required		CM2096	8,000.00	
S2LI	531000	Financial Assurance Rpt FDEP required		CM2096	5,000.00	
S2LI	531000	Water Quality collection, testing & reporting as required by FDEP		CM2096	6,000.00	
Contractual Services	534xxx					-
Travel & Per Diem	540xxx	(see itemized worksheet tab)				-
Communications & Freight	541xxx					-
Postage	542xxx					-
Utility Services (Electric, Water/Sewer, Garbage, etc.)	543xxx					1,800.00
FPL	543000	Flare Meter # KN37910 25% of total cost of bill other 75% budgeted in 01362534	\$600/mo*25%*12		1,800.00	
Rentals & Leases	544xxx					1,000.00
To be determined	544000	Rental of mower/tractor in the event of equip failure or breakdown posted in other orgs, 01362534, 01363534, 01364534			1,000.00	
Insurance	545xxx					850.00
	545000	Estimate based upon the FY 19/20 Insurance Estimated provided by OMB			850.00	



## Attachment B

### Proposed Loaded Billing Rates for 2019/2020 for Services Provided by S2Li on Behalf of Nassau County

Contract Position	Hourly Rates
Project Director/Principal-in-Charge	\$250.00
Regional Manager/QC Officer	\$232.25
Principal Engineer	\$190.26
Senior Engineer	\$137.09
Project Engineer	\$ 97.92
Associate Engineer/CADD	\$ 74.21
Field Technician	\$ 52.38
Office Manager	\$ 76.24

1. Billing rate based on applying a 10% profit to S2Li's breakeven multiplier. Project Director was capped at \$250.00 per hour.
2. Rates include typical expenses such as reproduction, travel costs (except for field vehicle), lodging, and printing. Any other extraordinary direct expenses shall be negotiated on a case by case basis and will be identified in the Work proposal.
3. Subconsultant costs and parts purchased on the County's behalf will be billed as pass-through costs with no profit or markup added by S2Li in addition to actual costs.
4. Field vehicle (truck) will be billed at \$100/day. /

## Fee Quotation Proposal

Re: Nassua County Bid #NC19-001

As requested, the following is our information regarding overhead multipliers and personnel hourly rates for projects with Nassua County; These are the determined rates for Grove Scientific & Engineering Company that is standard proposals for any and all government entities:

### **RATE SCHEDULE**

#### **LABOR**

#### **BILLABLE**

Senior Scientist/Principal	\$126.57 ✓
Senior Engineer/Professional Engineer	\$225.00 ✓
Professional Geologist	\$57.92 ✓
Environmental Scientist	\$84.38 ✓
Environmental Specialist	\$70.38 ✓
Paraprofessional	\$59.67 ✓
Technician	\$35.10 ✓

**Rates include all direct costs.**

Under penalty of perjury, I declare that I have read the foregoing and the facts stated in it are true. False statements may result in criminal prosecution for a felony of the third degree as provided for in Section 92.525(3), Florida Statutes.

Sara Greivell, CEO

Printed Name and Title

**Grove Scientific & Engineering Company**

Sara Greivell

Signature

4/4/2019

Date





April 8, 2019

Mr. Omar E. Smith, P.E.  
S2L, Inc.  
529 Versailles Drive, Suite 202  
Maitland, FL 32751

Re: Landfill Operations and Maintenance Fee Schedule  
S2L, Inc. / Nassau County Continuing Contract for Engineering Services

Dear Mr. Smith:

Sullivan Environmental, Inc. (SEI) herein presents to S2Li our proposed Field Services Fee Schedule for landfill operations and maintenance services at the West Nassau Landfill located in Callahan, FL.

**S2L, Inc. / Nassau County  
Landfill Operations and Maintenance Services Contract Support  
April 8, 2019**

<b>Personnel Classification</b>	<b>Billing Rate (1)</b>
Project Manager/Sr. Superintendent	\$138.28 (2)
Sr. Field Technician/Equipment Operator	\$126.80 (2)
Field Technician	\$106.80 (2)
Laborer	\$50.00 (2)
Secretarial	\$65.00 (2)

- (1) Billing Rates include typical travel expenses such as lodging, meals and mileage.
- (2) As required, on a project-by-project basis, equipment rental and/or project materials will be coordinated and paid for by S2L, Inc. or Nassau County.

The above billing rates will remain in force throughout the duration of S2Li's contract term with Nassau County.

Sincerely,

Kristine Sullivan  
Vice- President  
**Sullivan Environmental, Inc.**