

REQUEST FOR PROPOSALS LANDFILL GAS RECOVERY

Notice is hereby given that the Santa Rosa County Board of County Commissioners is calling for and requesting proposals for the recovery of methane gas at the Central Landfill located at 6337 Da Lisa Road, Milton, Florida.

All proposals must be in writing and delivered by hand, mail, or Fed EX to the Santa Rosa County Procurement Department, 6495 Caroline Street, Suite G, Milton, Florida 32570, and must be received by 10:00 a.m., December 8, 2009. Provide one original and 11 copies of the proposal. Only proposals received by the aforesaid time and date will be considered. All proposals shall be sealed and clearly labeled, "**RFP- Landfill Gas Recovery**".

Specifications and RFP documents may be secured from the Santa Rosa County Procurement Department at the address provided above. Telephone (850) 983-1870.

Questions concerning this request should be directed to either Mr. Floyd Rentz or Mr. Jerrel Anderson at (850) 981-7135.

A pre-bid conference will be held on October 27, 2009, at 9:30 a.m. local time, at the Santa Rosa County Procurement Department located 6495 Caroline Street, Milton, Florida 32570. All interested parties are invited to attend.

The Santa Rosa County Board of County Commissioners shall determine the proposal that is in the best interest of Santa Rosa County. That determination shall be based on factors including but not limited to: the proposed use of leased premises, the proposed lease payment to Santa Rosa County, and the proposed term of lease.

The Board of County Commissioners reserves the right to accept or reject any and all proposals in whole or in part, and to waive all informalities.

Santa Rosa County does not discriminate on the basis of race, color, national origin, sex, religion, age, or handicapped status in employment or provision of service.

By order of the Board of County Commissioners of Santa Rosa County, Florida.

LEGAL NOTICE

One issue –Press Gazette – October 3, 2009, Navarre Press – October 8, 2009

Bill and proof to Santa Rosa County Procurement Department, 6495 Caroline Street, Suite G, Milton, Florida, 32570, Attn.: Orrin L. Smith

October 3, 2009

MEMORANDUM

TO: Company Addressed

FROM: Santa Rosa County Procurement Department

SUBJECT: Landfill Gas Recovery

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Specifications and RFP documents may be secured from the county website (www.santarosa.fl.gov/bids) or from the Santa Rosa County Procurement Department at the address provided above. Telephone (850) 983-1870.

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MINIMUM SPECIFICATIONS

Conversion of Landfill Gas to Energy

Summary

The Santa Rosa County Board of County Commissioners, by way of this solicitation, invites interested parties to submit proposals to complete a project for the beneficial use of the methane gas generated by the Santa Rosa County Landfill. Currently there is no Landfill Gas (LFG) Collection System. See Attachment 1 for a location drawing for Central Landfill and Attachment 2 for a site plan, showing the location of the Class I area. See Attachment 3 for additional details (SCS Feasibility Study). The goals are to monetize LFG at point of delivery along with carbon credits, and to convert this gas into a useful product, thereby protecting the environment, reducing environmental control costs while complying with regulatory requirements and providing an economic benefit to Santa Rosa County.

The main objective of this proposal is to select a firm to: monetize the value of the methane gas produced by Santa Rosa County Landfill and provide a revenue stream to Santa Rosa County from the sale of the product. Proposals shall be presented relative to the Proposal Table (see applicable Proposal Designation A - E of Table 1). Other beneficial uses will be considered. Such proposals will be evaluated as explained in section III.

Regulatory Applicability:

The site is not subject to the landfill gas collection and control system (GCCS) requirements of the New Source Performance Standards (NSPS), nor any local or state regulation or other mandate to collect and control LFG from the landfill. The NSPS Tier 2 report (sans attachments) is provided as Attachment 3.

Existing Conditions

Santa Rosa County currently operates a Landfill Facility located at 6337 Da Lisa Rd, Milton, FL.

Electrical Service is provided by Gulf Power Company – Point of contact is: Homer Bell (850) 444-6035

A City of Milton 4" Natural Gas Line runs along Da-Lisa Rd at the North Boundary of the Landfill. Point of Contact is: Jesse Cornal (850) 665-1234

I. GENERAL INFORMATION AND GUIDELINES

Companies that submit information in response to this Request for Proposals (RFP) must have the capability of providing the products and services listed under the project description of this RFP. The County will negotiate various service and facility options with the company selected from the RFP evaluation process. This negotiation process may or may not result in a contract for service depending on the value-received.

One original and eleven copies of the proposals are due no later than **10:00 a.m., December 8, 2009, to Mr. Orrin Smith of the Procurement Department, located at 6495 Caroline St., Suite G, Milton, FL 32570, (850) 983-1870**. Sealed envelopes containing the proposals shall be labeled "RFP – Landfill Gas Recovery". Late proposals or those delivered by facsimile, electronic mail, or any other format other than bound paper copies or notebooks, shall not be considered for the RFP evaluation process.

Santa Rosa County reserves the right to request clarifications of any aspect of the proposal, or to request additional information that might be required to properly evaluate the proposal. This Request for Proposal does not obligate Santa Rosa County to accept or contract for any expressed or implied services.

I.A. COST OF PREPARATION

Santa Rosa County will not reimburse the cost of preparing a response to this RFP. Upon review of the submitted proposals it is Santa Rosa County's intent to select the most qualified firm and negotiate a contract to convert landfill gas to energy.

II. REQUEST FOR PROPOSAL

Proposal writing style should be concise and straightforward. Lengthy narratives containing extraneous information are discouraged. The length of the submittal document shall not exceed 15 pages (single-sided). Firms may use their discretion for the font size of other materials (e.g. graphics, charts). Foldouts, not exceeding 11"x17", are permitted. Supporting documentation attached as appendices or team member resumes are not included in the determination of total page count.

Proposals must be organized with the following subject headings. Please do not deviate from this format:

Section 1. Executive Summary: Describe in summary form your company's strengths and approach to business. Briefly summarize your company's qualifications, project management skills and technical approach. Specifically describe your company's approach to conducting business with Santa Rosa County.

Section 2. Company Profile: Please describe your business organization, including the following details:

- a) Name of the company, business address, telephone number, facsimile number, and primary contact person.
- b) Information on the history of the company, year established type of ownership, and name of the parent company, if applicable.
- c) Describe the size of the company, business mix and primary objectives. Briefly describe the financial stability of your company.
- d) Describe the company's team qualifications (i.e. project engineers, mechanics, technicians, sub-contractors, etc.). Provide a detailed organizational chart of your company/team.
- e) Identify any recognized quality indicators associated with your company, as well as professional affiliations.

Section 3. Project Development, Engineering and Delivery: Describe your organization's ability and experience in the area of design, permitting, engineering, and implementing projects of the size and type that you propose. Include a projected time table for your proposed project including accelerated payments for carbon credits.

The County is not specifying a specific gas to energy technology. The County is willing to consider both proven and innovative technologies to convert the landfill gas to usable, commercially valuable energy products such as electricity, thermal energy, compressed natural gas, natural gas, or other.

County will provide a suitable location at the landfill for the utilization facility

The Respondent's responsibilities generally shall include the following:

1. See Table 1: Proposal Table
2. Operation and maintenance of the LFG collection system to comply with local, state, and federal regulations.
3. Provide a source of revenue to the County by committing to buy the available LFG and carbon credits until 2025 (or until landfill gas collection and control requirements under the New Source Performance Standards are applicable to Central Landfill). Alternatively, the bidder can indicate a year earlier than 2025 as the contract period.

Section 4. Operation and Maintenance Services: Please describe your organizations ability to provide ongoing operations and service support for the proposed project. Please include local service capabilities and service contract.

Section 5. Resumes: Please provide resumes of the personnel that will be directly involved with the development and implementation of your proposed project. Describe each member’s role on the team and his/her responsibilities for this project. Include a project specific organization chart.

Section 6. References and project History: Please provide a list of references with a contact name, phone numbers and associated projects and a list of relevant projects.

Section 7. Solution Overview and Summary: This Section will include specific information regarding your proposed project. Please provide a description which can include: drawings, process flow diagrams, and/or a mass balance to describe your proposed project. Also describe the basic structure under which your firm would implement this project.

III. SELECTION PROCESS

III.A. Review of RFP responses

A committee will review requests for proposal (RFP) with members selected by Santa Rosa County. The panel will determine the most qualified contractor based on the following criteria and scoring system:

<i>Components</i>	<i>100 points</i>
1. Executive Summary	5
2. Company Profile	10
3. Project Development, Engineering and Delivery Timeline	30
4. Operation and Maintenance Services	20
5. Resumes	5
6. References and Project History	5
7. Solution Overview and Summary	15

III.B. Selection

All respondents will be scored based on the criteria outlined above. Santa Rosa County will begin negotiations with the company that is determined to be the most qualified.

IV. SCHEDULE

Santa Rosa County’s goal is to have an operational facility within 24 months of award of this proposal. Based on this goal, the following timeline outlines the timeline and major milestones.

<i><u>Event</u></i>	<i><u>Date</u></i>
A. RFP Issued	October 3, 2009
B. Pre-proposal Conference and Site Tour*	October 27, 2009
C. RFP Deadline	December 8, 2009
D. Selection Finalized	January 14, 2010 - estimated
E. Notice to Proceed (NTP)	February 11, 2010 - estimated
F. Final Plan Due / Finalize Gas Rights Agreement	≤ 3 Months after NTP ≤ 6 Months after NTP
G. Implementation of Agreed Initiatives	
<i>* Attendance is recommended but not required.</i>	

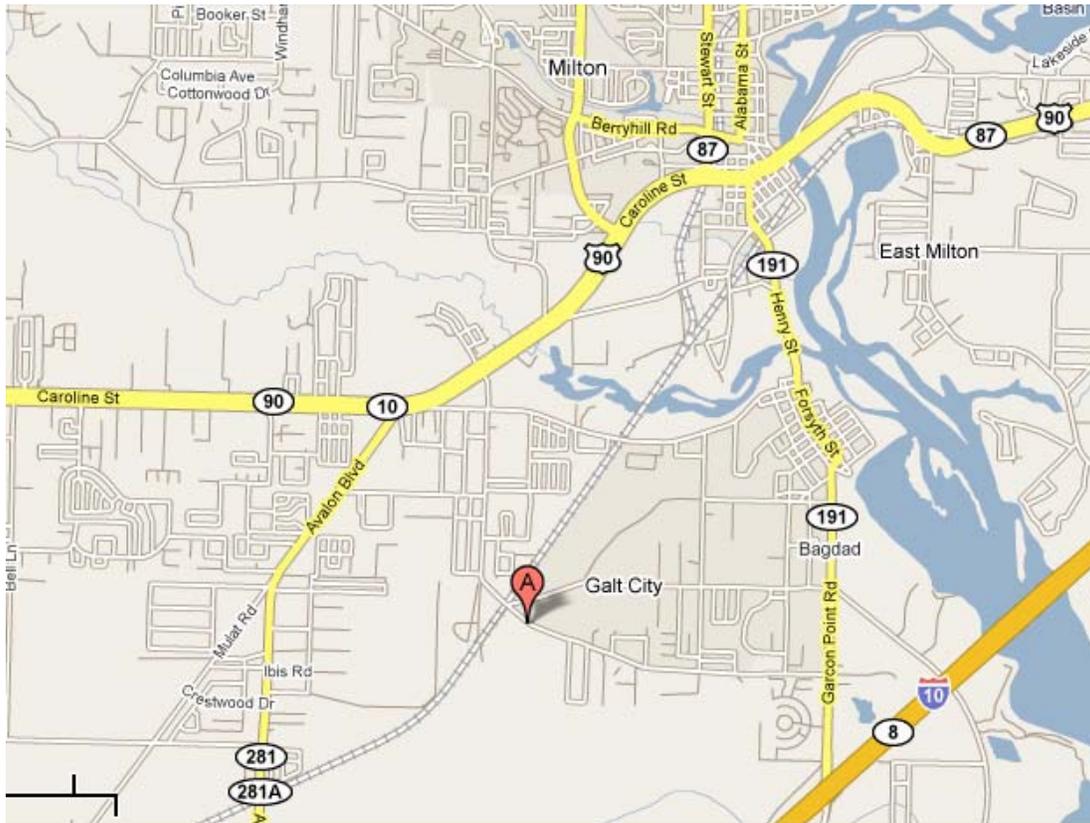
Table 1

Proposal Table

General Note: When preparing your proposal(s), you must specify which proposal designation is applicable.

Proposal Designation	Proposal Description
Proposal A:	<p>Under this proposal, the respondent is responsible for the design, construction and operation of the landfill gas collection system for the existing Class I airspace (see attached site plan), as well as all future expansions.</p> <p>The respondent is responsible for including the proposed monies associated with the destruction of the methane, or carbon credits.</p> <p>Payment is be made to Santa Rosa County, annually.</p> <p>Please provide the number of years payment will be made.</p>
Proposal B:	<p>This proposal is the same as proposal A, above, except the respondent is not to consider carbon credits in their proposal</p>
Proposal C:	<p>Under this proposal, the County will design & construct the landfill gas collection system for the existing Class I airspace, as well as all future expansions. The respondent will be responsible for the operation of the collection system for the existing Class I airspace, as well as all future expansions.</p> <p>The respondent is responsible for including the proposed monies associated with the destruction of the methane, or carbon credits.</p> <p>Payment is be made to Santa Rosa County, annually.</p> <p>Please provide the number of years payment will be made.</p>
Proposal D:	<p>This proposal is the same as proposal C, above, except the respondent is not to consider carbon credits in their proposal</p>
Proposal E:	<p>This proposal is to monetize carbon credits only.</p> <p>Please provide the number of years payment will be made.</p>

Attachment 1: Location Map



A: Central Landfill
Santa Rosa County
6337 Da Lisa Road

Attachment 3:

SCS REPORT

SCS ENGINEERS

June 13, 2007
File No. 09206019.03

Mr. Jerrel Anderson, P.E.
Environmental Department Manager
Santa Rosa County
6075 Old Bagdad Highway
Milton, Florida 32583

Subject: New Source Performance Standards Tier 2 Sampling and
Non-Methane Organic Compound Emission Estimate Report
Central Landfill, Santa Rosa County, Florida
Permit No. 0001534-003-SO

Dear Jerrel:

SCS Engineers (SCS) is pleased to submit the New Source Performance Standards (NSPS) Tier 2 non-methane organic compound (NMOC) emission report for the Santa Rosa County Central Landfill. This letter report presents the results of the Tier 2 sampling activities conducted in May 2007, and the Tier 2 estimate of the NMOC emissions from the landfill. The Tier 2 landfill gas (LFG) sampling was performed to establish a site-specific NMOC concentration for use in determining the applicability of the NSPS to LFG collection at the landfill. The sample collection and analyses were conducted in accordance with the requirements of the NSPS for Municipal Solid Waste Landfills as published in Title 40 of the Code of Federal Regulations Part 60 (40 CFR Part 60), Subpart WWW.

BACKGROUND

The Central Landfill is a municipal solid waste (MSW) and Class III landfill that covers approximately 101 acres; it is owned and operated by Santa Rosa County. Permitted activities include Class I and Class III solid waste disposal operations (permitted by the solid waste program). The waste is two years or older and therefore, the entire landfill footprint was subject to Tier 2 sampling per 40 CFR 60.754(a)(3). Refer to Attachment A for a figure of the landfill facility and Tier 2 sampling locations.

FIELD SAMPLING ACTIVITIES

Sampling activities were conducted from May 7, 2007 through 9, 2007, according to the pilot probe procedure outlined in U.S. EPA Method 25C, and as described in the Tier 2 sampling protocol which was submitted to the Florida Department of Environmental Protection (FDEP) on April 30, 2007. As stated in the sampling protocol, which is included in Attachment B, samples were collected from all areas of the landfill where the initial waste had been in place for at least two years. The sampling frequency was one probe for approximately every 2.0 acres.



SCS used a composite sampling method as allowed under 40 CFR 60.574(a)(3). Landfill gas samples were obtained from 50 locations as shown on the site plan. Sample locations were determined in the field based on the scaled drawing, landfill operations, age of waste, and the ability to collect a gas sample with oxygen content less than 5 per cent. The composite sampling method resulted in 50 samples collected into 10 pre-evacuated stainless-steel SUMMA canisters. The field sampling forms are included in Attachment C.

Pilot Probes

Pilot probes were installed in the landfill to the depths ranging from 6 to 7 feet below the landfill surface.

SUMMARY OF LABORATORY ANALYSIS RESULTS

Air Technology Laboratories, Inc. (ATL) analyzed each canister according to U.S. EPA Method 25C for NMOC and Method 3C for nitrogen and oxygen concentration. The NMOC concentrations measured by the laboratory were presented in units of parts per million by volume (ppmv) as carbon. ATL provided corrected NMOC concentrations based on sample temperature and barometric pressure at the time of sampling, moisture content, and nitrogen concentration within the sample. These results are shown in Table 1 below, and the analytical results are included in Attachment D.

Table 1. Tier 2 Sampling Analytical Results

Canister No.	NMOC (ppmv-carbon)	NMOC (ppmv-hexane)	No. Samples Per Canister	Weighted NMOC (ppmv-hexane)
SRLF 05-07-07-01	1,300	217	5	1,083
SRLF 05-07-07-02	1,000	167	5	833
SRLF 05-07-07-03	1500	250	5	1,250
SRLF 05-08-07-04	1300	217	5	1,083
SRLF 05-08-07-05	2,100	350	5	1,750
SRLF 05-08-07-06	2,200	367	5	1,833
SRLF 05-08-07-07	1,700	283	5	1,417
SRLF 05-08-07-08	3,500	583	5	2,917
SRLF 05-09-07-09	540	90	5	450
SRLF 05-09-07-10	790	132	5	658
TOTALS:			50	13,275
WEIGHTED AVERAGE:				266

For each canister, the NMOC concentration was converted from ppmv as carbon to ppmv as hexane by dividing by a factor of 6. SCS calculated the weighted average NMOC concentrations for the Tier 2 calculations. This resulted in a NMOC concentration of 266 ppmv as hexane for the landfill.

TIER 2 NMOC EMISSION ESTIMATE

In order to estimate the landfill NMOC emission rate, the annual waste receipts and the site-specific NMOC concentration measured from the Tier 2 sampling were input to a spreadsheet model consistent with the U.S. EPA Landfill Gas Emission Model (LandGEM). This model estimates emissions using the equation shown in 40 CFR 60.754(a)(1).

Waste Disposal Rates

The waste disposal tonnages used in the NMOC emission estimate and shown in Attachment E, were obtained from the County. The landfill began accepting waste in 1978. Note that under the columns labeled "Refuse in Place", the value shown is the cumulative waste in place at the beginning of each year. For example, since the landfill opened in 1978, there was zero waste in place at the beginning of that year. In 1979, the total waste in place reflects the waste in place at the beginning of 1978 (i.e., zero tons) plus the waste accepted in 1978 (i.e., 47,733 tons).

Model Parameters

The NSPS default values for the methane generation potential ($L_0 = 170 \text{ m}^3/\text{Mg}$) and methane generation rate constant ($k = 0.05 \text{ yr}^{-1}$) were used in the model. SCS also input the average methane concentration of 42 percent, which is based on measurements made with field instruments during sampling.

NMOC Emission Estimate Model Results

The model, which computes emissions based on the amount of waste in place at the beginning of each year, was run to estimate site-wide NMOC emissions. Emissions from the landfill were calculated based on a NMOC concentration of 266 ppmv as hexane and a methane content of 42 percent. The model results are summarized in Table 2 and presented in Attachment E. Note that the projected waste disposal rates for the landfill for years 2007 through 2012 are based on an annual increase of a five of percent.

Table 2. NMOC Emissions Estimate Model Results

Year	Projected MSW Disposal Rate (tons/yr)	Cumulative Waste-in-Place (tons)	NMOC Generation Rate (Mg/yr)
2007	66,739	1,508,873	14.6
2008	70,076	1,575,612	15.0
2009	73,580	1,645,688	15.5
2010	77,259	1,719,268	16.0
2011	81,122	1,796,527	16.6
2012	85,178	1,877,649	17.2

CONCLUSIONS AND RECOMMENDATIONS

The estimated Tier 2 NMOC emission rate for the site ranges from 14.6 Megagrams per year (Mg/year) in 2007 to 17.2 Mg/year in 2012. Because the site-wide emission rates are below 50 Mg per year, Santa Rosa County is not required to install a landfill gas collection and control system at the Central Landfill at this time. In addition, because the estimated emissions are below 50 Mg in each of the next five years, this report serves as the five-year emission estimate in accordance with 40 CFR 60.757(b)(1)(ii). This report remains valid unless the future actual waste disposal rates exceed the projected rates used in the Tier 2 model. If future disposal rates exceed these projections, the Tier 2 model must be re-run and the results submitted to FDEP. The next Tier 2 test will be due in 2012.

Please submit one signed and sealed original of this report to the FDEP at the following address:

Florida Department of Environmental Protection
Northwest District
160 Governmental Center
Pensacola, FL 32501-5794

SCS has appreciated the opportunity to assist the County with this project. Please call us at (800) 569-9702 if you have any questions or need additional information.

Sincerely,

6/13/07
Lindsey E. Kennelly
6/13/07

Lindsey E. Kennelly, P.E.
Project Engineer



John A. Banks, P.E.
Project Director
SCS ENGINEERS

Attachments



SANTA ROSA COUNTY BOARD OF COMMISSIONERS Procurement Department



JIM WILLIAMSON, District 1
ROBERT A. "BOB" COLE, District 2
W. D. "DON" SALTER, District 3
GORDON GOODIN, District 4
R. LANE LYNCHARD, District 5

Santa Rosa Administrative Offices
6495 Caroline Street, Suite G
Milton, Fl 32570-4592

Hunter Walker, County Administrator
Thomas V. Dannheisser, County Attorney
Joel D. Haniford, OMB Director

October 29, 2009

MEMORANDUM

TO: Company Addressed

FROM: Santa Rosa County Procurement Department

SUBJECT: Landfill Gas Recovery

Addendum

1. Dead line for questions has been established for November 25, 2009 at 4:30 pm local time. All questions are to be emailed to Floyd Rentz at floydr@santarosa.fl.gov.
2. The SCS Sampling Report, Topography Drawings and Operating Permit have all been uploaded to the SRC ftp site for your convenience. As a reminder the website is: www.santarosa.fl.gov/ftp and the username and password are both "santarosa#1". The files are located in a directory titled "Landfill Gas".

(end of addendum)