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DEP Central Dist.

**Public Works Department
Solid Waste Division**

August 18, 2010

ENV-10-153

Mr. F. Thomas Lubozynski
Waste Administrator
Florida Department of Environmental Protection
Central District Office
3319 Maguire Boulevard Suite 232
Orlando, FL 32803

Re: Quarterly Landfill Gas Monitoring Report – Third Quarter 2010
Volusia County's Tomoka Farms Road
Permit No. S064-0078767

Dear Mr. Lubozynski:

Enclosed please find a copy of the Third Quarter 2010 Landfill Gas Monitoring Report for Volusia County's Tomoka Farms Road Landfill.

If you have any comments or questions regarding this matter please contact me at (386)947-2952 or jstirk@co.volusia.fl.us.

Sincerely,



Jennifer R. Stirk
Environmental Specialist III

Enclosure: Landfill Gas Monitoring Report

CC: Chet Purves, Construction Manager
file

**Third Quarter 2010
August 17, 2010**

**Results of Ambient Air Testing
Tomoka Farms Road Landfill**

Building	CH4 Percent	O2 Percent	LEL Percent
Scale House	0.0	19.9	0.0
Maintenance Building	0.0	20.1	0.0
Administration Building	0.0	20.4	0.0

Gas Monitoring Report Tomoka Roads Landfill

Gas Probes	CH4 Percent	CO2 Percent	O2 Percent	Balance Percent	LEL Percent
MW-1	0.0	6.6	13.8	79.6	0.0
MW-2	0.0	0.1	19.6	80.3	0.0
MW-3	0.0	0.1	19.8	80.1	0.0
MW-4	0.0	0.1	19.6	80.3	0.0
MW-5	0.0	1.4	17.8	80.8	0.0
MW-7	0.0	0.0	19.8	80.2	0.0
MW-8	0.0	0.1	19.8	80.1	0.0



CERTIFICATE OF CALIBRATION

Certificate Number: GM10255_4/3637 **Calibration Date:** July 29, 2010
Serial Number: GM10255 **Product Type:** GEM - 2000

Calibration checked at: 93.5 °F to 94.4 °F

Primary Gas Channels:

Methane (CH ₄)		Carbon Dioxide (CO ₂)	
Certified Gas (%)	Reading (%)	Certified Gas (%)	Reading (%)
50.02	49.3	49.98	49.8
14.99	15.0	15.01	14.5
5.01	5.0	4.99	4.7

Oxygen (O ₂)		Barometric Pressure	
Certified Gas (%)	Reading (%)	Certified (mb / "/>hg)	Reading (mb / "/>hg)
21.00	21.0	978 / 28.89	979 / 28.90

Typical Accuracy	0-Full Scale		
Gas	Volume		
	0-5%	5-15%	15%-FS
CH ₄	±0.3%	±1%	±3%
CO ₂	±0.3%	±1%	±3%
O ₂	±1%	±1%	±1%

Method of Test: The analyser is calibrated in a temperature controlled chamber using reference gases.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.



CERTIFICATE OF CALIBRATION

Certificate Number: GM10255_4/3637 **Calibration Date:** July 29, 2010
Serial Number: GM10255 **Product Type:** GEM - 2000

This certificate of calibration applies solely to the unit whose serial number appears on this certificate, and is not valid for any other unit.

Prepared for:

County of Volusia, Solid Waste
1990 Tomoka Farms Road
Port Orange, FL 32128

Calibration Procedures used:

ISP 17 – Calibration Chamber	ISP 13 – Calibration and Validation Methods
ISP 18 – Incoming Inspection Procedure	ISP 12 – Handling of customer equipment
ISP 19 – Outgoing Inspection Procedure	ISP 10 – Contract review

The gases used to prepare this calibration are traceable to a certified standard prepared by weights traceable to the National Institute of Standards and Technology (NIST), or by using NIST standard reference materials where available.

LANDTEC North America is an ISO 9001 and ISO/IEC 17025 accredited company.

Approved by:

Name: Derek Hill

Signature:

Job Title: Service Technician

