Volusia County
FLORIDA

Public Works Department
Solid Waste Division

December 20, 2012 ENV-12-159

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 – Fourth Quarter 2012
Volusia County's Tomoka Farms Road
Permit No. S064-0078767

Dear Mr. Lubozynski:

Enclosed please find a copy of the Fourth Quarter 2012 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: file

1990 Tomoka Farms Road • Port Orange, Florida 32128-3752
Tel: 386-947-2952 • Fax: 386-947-2955

www.volusia.org/recycle

Fourth Quarter 2012
December 18, 2012
Tomoka Farms Road Landfill

RECEIVED
DEC
DEP Central District

Building	CH4 Percent	O2 Percent	LEL Percent
Scale House	0.0	18.5	0.0
Maintenance Building	0.0	18.9	0.0
Administration Building	0.0	18.6	0.0
HHW Building	0.0	18.7	0.0
GEL Corp Building	0.0	17.6	0.0
WWTP Building	0.0	18.3	0.0
N-Viro Building	0.0	17.9	0.0

RECEIVED
DEC 26 2012
DEP Central District

Gas Monitoring Report Tomoka Roads Landfill

Gas Probes	CH4 Percent	CO2 Percent	O2 Percent	Balance Percent	LEL Percent
MW-1	0.0	1.8	17.5	80.5	0.0
MW-2	0.0	2.4	17.5	80.1	0.0
MW-3	0.0	0.1	18.2	81.7	0.0
MW-4	0.0	0.5	17.4	82.1	0.0
MW-5	0.0	2.2	18.1	80.0	0.0
MW-7	0.0	1.4	17.4	81.2	0.0
MW-8	0.0	0.3	18.5	81.5	0.0

Field Calibration Documentation for the GEM2000
Volusia County Solid Waste Division

Date	Time	Location Where check is performed	Individual Performing Check	Results Actual Reading	Passed or Failed (Yes or No)	Readings associated with a failed check	Corrective actions taken to fix problem	Calibrated (Yes or No)	Initials
7/5/2011	08:45	TOMOKA	E.K.L.	50/34.8/4.0	YES	NA	NA	YES	E.K.L.
11/16/2011	8:50	Tomoka	J. Stirk	36.3/35.0/3.7	No	CH4 36.3	send for factory cal	NO	J. Stirk
1/29/2011	8:30	Tomoka	P. Ballard	50.6/31.7/3.9	Yes	NA	NA	Yes	P. B
3/14/2012	2:00P	Tomoka	J. Stirk	50.0/34.8/4.6	Yes	NA	NA	Yes	J.R.S.
3-16/2012	9:15 Am	TomoKA	K. States	49.9/35.0/4.1	Yes	NA	NA	Yes	KS
6-5-2012	9:40 AM	TomoKA	K. States	50.3/35.0/4.2	yes	NA	NA	Yes	KS
8/9/12	8:20 AM	Tomoka	J. Stirk	49.5/34.1/4.3	yes	NA	NA	yes	JRS
9/6/12	8:35 AM	Tomoka	J. Stirk	~~50.2~~ 51.3/34.2/4.0	yes	NA	NA	yes	JRS
12/18/12	10:30 AM	Tomoka	J. Stirk	52.3/34.8/4.0	yes	NA	NA	yes	JRS



LOCATION OF GAS MONITORING WELLS

ADDITIONAL ABBREVIATIONS–TREE LEGEND

CP	CAMPHOR TREE	MG	MAGNOLIA
MP	MAPLE TREE	BY	BAY TREE
SC	SYCAMORE TREE	EM	ELM TREE
OK	OAK TREE	CT	CHERRY TREE
SG	SWEET GUM TREE	PN	PINE TREE
HK	HICKORY TREE	PM	PALM TREE
BH	BIRCH TREE	MU	MULBERRY TREE

TREE TYPE — OK 24 8 — TREE SIZE (INCHES) DIAMETER AT BREAST HEIGHT; TREE SYMBOL; MULTIPLE TRUNKS

ABBREVIATIONS

W/	WITH	TC	TOP COVER	D	CENTRAL ANGLE	INV	INVERT	RES	RESIDENCE	WC	IRON ROD & CAP
CM	CONCRETE MONUMENT	WV	WATER VALVE	R	RADIUS	SEC	SECTION	—T—	BURIED TELEPHONE LINE	RCP	REINFORCED CONCRETE PIPE
TOB	TOP OF BANK	TSB	TRAFFIC SIGNAL BOX	L	ARC LENGTH	TWP	TOWNSHIP	—W—	BURIED WATER LINE	CMP	CORRUGATED METAL PIPE
TOE	TOE OF SLOPE	FH	FIRE HYDRANT	CB	CHORD BEARING	RGE	RANGE	—E—	BURIED ELECTRIC LINE	MH	MANHOLE
CLS	CENTERLINE OF SWALE	WM	WATER METER	CH	CHORD DISTANCE	R/W	RIGHT OF WAY	—G—	BURIED GAS LINE	MB	MAP BOOK
STA	STATION	LP	LIGHT POLE	FP&L CO	FLORIDA POWER & LIGHT COMPANY	CONC	CONCRETE	—TV—	BURIED TELEVISION LINE	IP	IRON PIPE
CO	CLEANOUT	IV	IRRIGATION VALVE			EL	ELEVATION	—FM—	BURIED FORCE MAIN	ORB	OFFICIAL RECORDS BOOK
SAN	SANITARY	GA	GUY ANCHOR	NGVD	NATIONAL GEODETIC VERTICAL DATUM	(MR)	NON RADIAL	— —	AERIAL UTILITY LINE	PG	PAGE
ES	ELECTRIC SERVICE	CPP	CORRUGATED PLASTIC PIPE			(R)	RADIAL	(P)	PLATTED DIMENSION	ID	IDENTIFICATION
HDP	HIGH DENSITY POLYETHYLENE PIPE	DIP	DUCTILE IRON PIPE	USC & GS	U.S. COAST AND GEODETIC SURVEY	N&D	NAIL AND DISK	(F)	DEEDED DIMENSION	(TYP)	TYPICAL
VCP	VITREOUS CLAY PIPE	PVC	POLYVINYL CHLORIDE			RV	REUSE VALVE	(M)	MEASURED DIMENSION	REC	RECOVERED
CV	CHECK VALVE	DW	DRIVEWAY	℄	CENTERLINE			(C)	CALCULATED DIMENSION		

LEGEND

ELECTRIC BOX; MAIL BOX; SIGN; TREE; FIRE HYDRANT; WATER METER; GUY ANCHOR; UTILITY POLE; IRON ROD WITH CAP; IRON PIPE; TELEPHONE BOX; TRAFFIC SIGNAL BOX; CLEAN OUT; CONCRETE MONUMENT; PERMANENT REFERENCE MONUMENT; PERMANENT CONTROL POINT; LIGHT POLE; WATER VALVE; EXISTING ELEVATION; CABLE TELEVISION BOX

FOR: VOLUSIA COUNTY DEPARTMENT OF PUBLIC WORKS

SCALE: 1" = 400' FIELD BOOK: 1199,1245,1275,1283 PAGE(S): 44–72,25,43,69–70 SHEET 1 OF 2

TYPE OF SURVEY	SURVEY DATE	JOB NUMBER	PARTY CHIEF	DRAWN BY	CHECKED BY
SPECIFIC PURPOSE	–	–	–	–	–
BOUNDARY SURVEY	–	–	–	–	–
TOPOGRAPHIC SURVEY	–	–	–	–	–
AS–BUILT SURVEY	01/19/2010	09–0362	L. HOFFMAN	J. MOLLER	J. ZAPERT
FINAL IMPROVEMENTS	–	–	–	–	–
RECERTIFICATION	–	–	–	–	–

SLIGER & ASSOCIATES, INC.
PROFESSIONAL LAND SURVEYORS
3611 NOVA ROAD
PORT ORANGE, FL 32127
(386) 761-5385
LICENSED BUSINESS CERTIFICATION NUMBER 3019
www.sligerassociates.com

Copyright © 2010 Sliger & Associates, Inc.

TOMOKA FARMS ROAD LANDFILL
VOLUSIA COUNTY, FLORIDA

FOR: VOLUSIA COUNTY DEPARTMENT OF PUBLIC WORKS

JOB NO. 12-0429

PLAT PREPARED FOR THE FOLLOWING: (ONLY THE LAST DATE IS CERTIFIED ON SEALED COPY)

THIS PLAT OF SURVEY IS CERTIFIED TO AND PREPARED FOR THE SOLE AND EXCLUSIVE BENEFIT OF THE ENTITIES AND/OR INDIVIDUALS LISTED BELOW, ON THE MOST CURRENT DATE, AND SHALL NOT BE RELIED UPON BY ANY OTHER ENTITY OR INDIVIDUAL WHOMSOEVER.

TYPE OF SURVEY	CERTIFIED TO	SURVEY DATE	JOB NUMBER
AS–BUILT	VOLUSIA COUNTY DEPARTMENT OF PUBLIC WORKS	5/01/2009	09–0362
	NOT CERTIFIED TO ANY ENTITIES AND/OR INDIVIDUALS		
	OTHER THAN THOSE LISTED ABOVE.		

SPECIFIC PURPOSE SURVEY

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

J.E. ZAPERT, P.L.S. NO. 4946
CLYDE D. VAN KLEECK JR., P.S.M. NO. 6149
STEVEN T. KRUGER, P.L.S. NO. 4722
MICHAEL S. MURPHY, P.S.M. NO. 6208
VALID WITH SIGNATURE & EMBOSSED SEAL ONLY