



File

October 24, 2013

Ms. Saara Jumani
Bureau of Landfill and Recycling Management
NJDEP – DIVISION OF SOLID AND HAZARDOUS WASTE
401 East State Street, P.O. Box 414
Trenton, New Jersey 08625-0414

Re: Quarterly Landfill Gas Survey – 4th Quarter 2013
Legler Landfill, Facility No. 1511A
Jackson Township, Ocean County, New Jersey
FPA No. 08E004A

Dear Ms. Jumani:

INTRODUCTION

This report presents the testing procedures and analytical results of the Quarterly Landfill Gas (LFG) survey conducted by French & Parrello Associates, PA (FPA) on October 23, 2013, at Legler Landfill and surrounding properties, Jackson Township, Ocean County, New Jersey. The subject landfill is identified as New Jersey Department of Environmental Protection (NJDEP) Facility No. 1511A.

BACKGROUND

As part of the Closure and Post-Closure Plan Approval dated February 21, 1996, and Corrective Action Plan dated March 2002, methane gas surveys are to be conducted around the landfill perimeter to monitor potential lateral, offsite gas migration. Since 2000, methane gas concentrations have increased in the western portion and southwestern corner of the landfill. As a result, the NJDEP directed Jackson Township to perform quarterly offsite gas surveys to monitor methane gas migration.

Pursuant to the NJDEP letter received April 1, 2009, monitoring is required to be conducted during days of falling barometric pressure in order to accurately monitor gas migration. Barometric pressure data was gathered from the Rutgers Weather and Climate Network station located in Cream Ridge, NJ, approximately 13.5 miles from the Subject Property. Additionally, pursuant to the NJDEP letter dated June 23, 2010, the delineation protocol has been modified. Gas sampling points between each well are no longer required; however, whenever methane gas is detected within one of the onsite gas monitoring wells, three additional sampling points are required.

One point is required 25 feet on either side of the well and the third point is required 25 feet behind (offsite) of the well. In the event methane gas is detected in one of the delineation samples, the same delineation protocol is to be used until methane gas is no longer detected. Delineation samples were collected on the boundary of Block 37, Lot 1, and Block 38, Lot 16.02, and expanded outward from the onsite sampling points.

LANDFILL GAS TESTING PROCEDURES

Gas sampling was performed at 49 gas sampling locations: 23 gas monitoring wells, 24 temporary gas sampling points (GSPs) and two flares. The wells were sampled immediately after removing the locked, metal protective caps by inserting dedicated three-foot, 3/16-inch, white polyethylene tubing through pre-drilled holes in the plastic well caps. The tubing was attached to the RKI Instruments EAGLE 2 Six Gas Sample Drawing Monitor (EAGLE 2) which instantaneously analyzed the Landfill Gas (LFG). GSP samples were collected utilizing an AMS Soil Sampling Kit. A slam bar and soil gas probe were utilized to penetrate the soil to an approximate depth of two and one-half feet. Dedicated 3/16-inch inside diameter, polyethylene tubing was pre-fed through the probe, and the EAGLE 2 was utilized to instantaneously analyze LFG. GSPs are located primarily along the property boundary 25 feet on each side of the wells containing detectable concentrations of methane gas. On February 4, 2008, four-inch PVC ball valves equipped with fabricated conversion nipples, were installed on the Flares. These valves ensure a sealed connection to the EAGLE 2 while sampling.

Offsite gas sampling was conducted on Block 38, Lots 16.02 and 18, as well as Block 37, Lot 1. Samples were collected in 25-foot intervals behind the onsite locations where methane LELs were detected above 0%. Offsite sampling included five GSP locations. Each gas sample was analyzed for percent methane, percent oxygen, percent carbon dioxide and methane LEL. Sampling locations are displayed on Drawing No. 1.

GAS TESTING RESULTS

Onsite Gas Testing Results

Methane gas was detected in 12 locations onsite, 11 of which were in excess of the 25 percent LEL: Well # 8, Well #13, Well #15, Well #16, Well #17, Well #19, GSP #19b, GSP #19bb, GSP #19bbb, Flare One (F-1), and Flare Two (F-2). (Survey results are presented in Table No. 1). A comparison of the most recent monitoring results with the historical results shows no indication of additional methane migration. Changes in onsite methane gas concentrations, since September 2006, are presented in Table No. 2 and graphically on Figure No. 1. Changes in onsite LEL, since September 2006, are presented in Table No. 3, and graphically on Figure No. 2.

OFFSITE GAS MONITORING RESULTS

During the October 23, 2013 landfill gas monitoring event, methane gas was not detected at offsite locations. Field analysis results of the offsite gas survey are presented in Table No. 4. A comparison of the most recent monitoring results with the historical results indicates an overall decreasing trend of LELs. Changes in offsite methane gas concentrations, since April 2009, are presented in Table No. 5, and graphically on Figure No. 3. Changes in offsite LEL, since April 2009, are presented in Table No. 6 and graphically on Figure No. 4.

FPA would like to note the site adjacent south of the Legler Landfill is listed as a former landfill identified as the Wickham Property/All In One Sludge Landfill (CSL ID: NJD980529937).

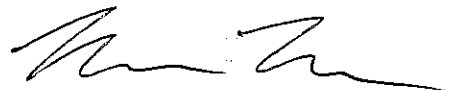
CONCLUSIONS AND RECOMMENDATIONS

Pursuant to the NJDEP letter received April 1, 2009, FPA conducted the first quarter gas monitoring event on a day with falling barometric pressure. Barometric pressure data is presented in Table No. 7. The most current quarterly gas survey indicates a decreasing trend in LELs when compared to historic surveys. LELs were not detected above the acceptable regulatory percentage in offsite sampling locations during the October 23, 2013 monitoring event.

Should you have any questions or comments, please do not hesitate to contact us.

Very truly yours,

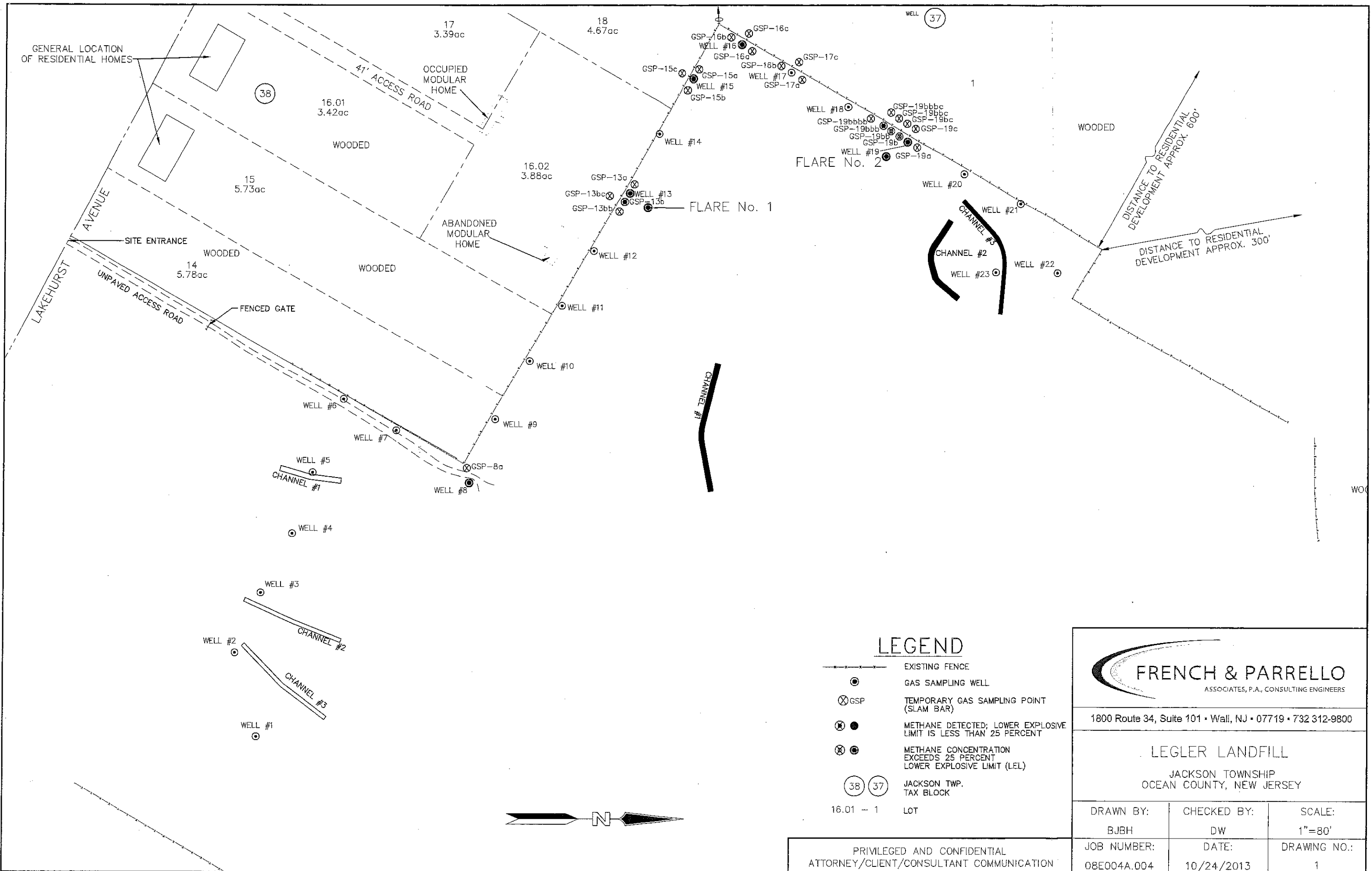
FRENCH & PARRELLO ASSOCIATES, PA



Bryan Heller, Project Manager
Environmental Services

cc: Dan Burke – *Jackson Township Engineer* ✓

DRAWINGS



LEGEND

- — — — — EXISTING FENCE
- GAS SAMPLING WELL
- ⊗ GSP TEMPORARY GAS SAMPLING POINT (SLAM BAR)
- ⊗ ● METHANE DETECTED; LOWER EXPLOSIVE LIMIT IS LESS THAN 25 PERCENT
- ⊗ ● ● METHANE CONCENTRATION EXCEEDS 25 PERCENT LOWER EXPLOSIVE LIMIT (LEL)
- ③ ③ JACKSON TWP. TAX BLOCK
- 16.01 - 1 LOT



1800 Route 34, Suite 101 • Wall, NJ • 07719 • 732 312-9800

LEGLER LANDFILL
 JACKSON TOWNSHIP
 OCEAN COUNTY, NEW JERSEY

DRAWN BY: BJBH	CHECKED BY: DW	SCALE: 1"=80'
JOB NUMBER: 08E004A.004	DATE: 10/24/2013	DRAWING NO.: 1

PRIVILEGED AND CONFIDENTIAL
 ATTORNEY/CLIENT/CONSULTANT COMMUNICATION

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TABLES

TABLE 1
OCTOBER 23, 2013 - ONSITE GAS SURVEY RESULTS
 LEGLER LANDFILL (FACILITY No. 1511A)
 JACKSON TOWNSHIP, OCEAN COUNTY, NEW JERSEY

Well No./ Gas Sampling Point	Percent Methane	Percent Lower Explosive Limit	Percent Carbon Dioxide	Percent Oxygen	Comments
Well # 1	0.0%	0.0%	0.1%	20.9%	
Well # 2	0.0%	0.0%	0.9%	20.9%	
Well # 3	0.0%	0.0%	3.4%	15.7%	
Well # 4	0.0%	0.0%	3.4%	14.7%	
Well # 5	0.0%	0.0%	3.2%	14.1%	
Well # 6	0.0%	0.0%	1.1%	17.7%	
Well # 7	0.0%	0.0%	2.6%	14.5%	
Well # 8	4.8%	96.0%	13.4%	0.8%	
GSP # 8a	0.0%	0.0%	0.5%	20.6%	
Well # 9	0.0%	0.0%	5.7%	9.7%	
Well # 10	0.0%	0.0%	8.9%	7.6%	
Well # 11	0.0%	0.0%	4.9%	14.7%	
Well # 12	0.0%	0.0%	7.4%	9.3%	
Well # 13	28.5%	570.0%	16.6%	6.6%	
GSP # 13a	0.0%	0.0%	0.5%	20.9%	
GSP # 13b	0.9%	18.0%	14.3%	1.1%	
GSP # 13bb	0.0%	0.0%	0.5%	20.3%	
Well # 14	0.0%	0.0%	10.2%	8.2%	
Well # 15	5.5%	110.0%	14.3%	4.2%	
GSP # 15a	0.0%	0.0%	1.6%	19.1%	
GSP # 15b	0.0%	0.0%	0.1%	20.3%	
Well # 16	2.4%	47.0%	15.5%	4.5%	
GSP # 16a	0.0%	0.0%	1.2%	20.1%	
GSP # 16b	0.0%	0.0%	0.9%	19.8%	
Well # 17	1.3%	25.0%	1.4%	18.0%	
GSP # 17a	0.0%	0.0%	1.1%	20.3%	
GSP # 17b	0.0%	0.0%	0.9%	20.3%	
Well # 18	0.0%	0.0%	1.4%	18.6%	
Well # 19	32.0%	640.0%	20.5%	3.4%	
GSP # 19a	0.0%	0.0%	3.4%	16.0%	
GSP # 19b	27.0%	540.0%	5.1%	7.8%	
GSP # 19bb	7.0%	140.0%	12.1%	5.4%	
GSP # 19bbb	2.0%	40.0%	6.9%	12.2%	
GSP # 19bbbb	0.0%	0.0%	0.9%	20.1%	
Well # 20	0.0%	0.0%	4.5%	15.2%	
Well # 21	0.0%	0.0%	1.7%	18.6%	
Well # 22	0.0%	0.0%	0.2%	20.9%	
Well # 23	0.0%	0.0%	5.5%	11.5%	
Flare (F-1)	5.5%	110.0%	10.6%	5.4%	
Flare (F-2)	39.0%	780.0%	20.1%	1.7%	

Notes:
 Background methane levels approximately 0.1% methane
Bold values exceed regulatory acceptable levels (25% LEL)

TABLE 4
October 23, 2013 - OFFSITE GAS SURVEY RESULTS
 LEGLER LANDFILL (FACILITY No. 1511A)
 JACKSON TOWNSHIP, OCEAN COUNTY, NEW JERSEY

Well No / Gas Sampling Point	Percent Methane	Percent Lower Explosive Limit	Percent Carbon Dioxide	Percent Oxygen	Comments
GSP # 13c	--	--	--	--	*
GSP # 13bc	0.0%	0.0%	1.9%	18.7%	
GSP # 15c	0.0%	0.0%	2.0%	18.9%	
GSP # 16c	0.0%	0.0%	1.5%	19.1%	
GSP # 17c	0.0%	0.0%	0.9%	20.1%	
GSP # 19c	0.0%	0.0%	0.8%	21.1%	
GSP # 19bc	0.0%	0.0%	1.1%	18.5%	
GSP # 19bbc	0.0%	0.0%	1.3%	19.7%	
GSP # 19bbbc	0.0%	0.0%	0.9%	20.3%	

Notes:

* - Due to a large berm located offsite behind Well-13, sampling at the GSP # 13c location could not be conducted.

Bold values exceed regulatory acceptable levels (25% LEL)

TABLE 5
 OFFSITE METHANE GAS CONCENTRATIONS FROM APRIL 2009 TO OCTOBER 2013
 LEGLER LANDFILL (FACILITY No. 1511A)
 JACKSON TOWNSHIP, OCEAN COUNTY, NEW JERSEY

Gas Monitoring Well/ Sampling Point	Gas	% CH4 (4-09)	% CH4 (9-09)	% CH4 (12-09)	% CH4 (2-10)	% CH4 (4-10)	% CH4 (7-10)	% CH4 (11-10)	% CH4 (3-11)	% CH4 (7-11)	% CH4 (10-11)	% CH4 (11-11)	% CH4 (3-12)	% CH4 (5-12)	% CH4 (9-12)	% CH4 (11-12)	% CH4 (3-13)	% CH4 (5-13)	% CH4 (9-13)	% CH4 (10-13)
GSP # 8a (25') (GSP # 8ac)		NS	NS	NS	0.0%	0.0%	NS	NS	0.0%	NS	NS	NS	NS	NS	0.0%	NS	NS	NS	NS	NS
Well # 10 (25') (GSP # 10c)		NS	NS	0.0%	0.0%	0.0%	NS	NS	0.0%	NS	0.0%	NS	NS	NS	0.0%	NS	0.0%	NS	NS	NS
Well # 12 (25') (GSP # 12c)		0.0%	0.0%	0.2%	0.0%	2.0%	0.0%	0.0%	0.0%	NS	0.0%	NS	0.0%	0.0%	0.0%	NS	0.0%	NS	NS	NS
Well # 12 (50')		NS	NS	NS	NS	0.0%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well # 13 (25') (GSP # 13c)		--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*
GSP # 13a (25') (GSP # 13ac)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--*	NS	NS	NS
GSP # 13aa (25') (GSP # 13aac)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--*	NS	NS	NS
GSP # 13b (25') (GSP # 13bc)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.6%**	NS	0.0%	NS	0.0%	NS	NS	NS	0.0%
GSP # 13bb (25') (GSP # 13bbc)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well # 14 (25') (GSP # 14c)		NS	NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	NS	NS	NS	0.0%	NS	NS	NS	NS	NS
GSP # 15a (25')		NS	NS	NS	0.0%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well # 15 (25') (GSP # 15c)		0.0%	NS	0.0%	NS	0.0%	NS	NS	0.0%	0.0%	0.0%	NS	0.0%	0.0%	0.0%	NS	0.0%	NS	NS	0.0%
GSP # 16a (25')		NS	NS	0.0%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well # 16 (25') (GSP # 16c)		NS	NS	NS	NS	0.0%	NS	NS	0.0%	NS	NS	NS	0.0%	0.0%	NS	NS	0.0%	NS	NS	0.0%
Well # 17 (25') (GSP # 17c)		0.0%	0.0%	0.0%	0.0%	0.0%	NS	NS	0.0%	0.0%	0.0%	NS	0.0%	0.0%	0.0%	NS	0.0%	NS	0.0%	NS
GSP # 17a (25') (GSP # 17ac)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS
GSP # 17aa (25') (GSP # 17aac)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS
Well # 18 (25') (GSP # 18c)		NS	NS	0.1%	NS	0.0%	NS	NS	0.0%	0.0%	NS	NS	NS	0.0%	0.0%	NS	0.0%	NS	NS	NS
GSP # 18a (25') (GSP # 18ac)		NS	NS	NS	0.0%	NS	NS	NS	NS	0.0%	NS	NS	NS	0.0%	NS	0.0%	NS	NS	NS	NS
Well # 19 (25') (GSP # 19c)		0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	NS	NS	NS	0.0%	NS	0.0%	0.0%	0.0%	NS
GSP- # 19a (25') (GSP # 19ac)		NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	0.0%	NS	NS	NS	0.0%	NS	0.0%	0.0%	0.0%	NS
GSP # 19aa (25') (GSP # 19aac)		NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS	NS	NS	0.0%	0.0%	0.0%	NS
GSP # 19b (25') (GSP # 19bc)		NS	NS	NS	NS	NS	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
GSP # 19bb (25') (GSP # 19bbc)		NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	0.0%	NS	NS	0.0%	NS	NS	0.0%	NS	NS	0.0%
GSP # 19bbb (25') (GSP # 19bbbc)		NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	0.0%	NS	NS	0.0%	NS	NS	0.0%	NS	NS	NS
GSP # 19bbbb (25') (GSP # 19bbbbc)		NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS	NS	NS	0.0%	NS	NS	NS
GSP # 20c (25') (GSP # 20ac)		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS

Note:
 -- - Not Sampled
 * - Due to a large berm located offsite behind Well-13, sampling at the GSP-13 (25') location could not
 NS - On-site readings were 0.0% during this event; therefore, no offsite readings were required.

TABLE 6
OFFSITE LOWER EXPLOSIVE LIMITS FROM APRIL 2009 TO OCTOBER 2013
 LEGLER LANDFILL (FACILITY No. 1511A)
 JACKSON TOWNSHIP, OCEAN COUNTY, NEW JERSEY

Gas Monitoring Well/ Gas Sampling Point	% CH4 (12-05)	% CH4 (1-06)	% CH4 (2-06)	LEL (4-09)	LEL (9-09)	LEL (12-09)	LEL (2-10)	LEL (4-10)	LEL (7-10)	LEL (11-10)	LEL (3-11)	LEL (7-11)	LEL (10-11)	LEL (3-12)	LEL (5-12)	LEL (9-12)	LEL (3-13)	LEL (5-13)	LEL (9-13)	LEL (10-13)
GSP-8a (25') (GSP-8ac)				NS	NS	NS	0.0%	0.0%	NS	NS	0.0%	NS	NS	NS	NS	0.0%	NS	NS	NS	0.0%
Well-10 (25') (GSP-10c)				NS	NS	0.0%	0.0%	0.0%	NS	NS	0.0%	NS	0.0%	NS	NS	0.0%	0.0%	NS	NS	NS
Well-12 (25') (GSP-12c)				0.0%	0.0%	1.0%	0.0%	40.0%	0.0%	0.0%	0.0%	NS	0.0%	0.0%	0.0%	0.0%	0.0%	NS	NS	NS
Well-12 (50')				NS	NS	NS	NS	0.0%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well-13 (25') (GSP-13c)				--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*
GSP-13a (25') (GSP-13ac)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--*	NS	NS	NS
GSP-13aa (25') (GSP-13aac)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--*	NS	NS	NS
GSP-13b (25') (GSP-13bc)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS	NS	0.0%
GSP-13bb (25') (GSP-13bbc)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well-14 (25') (GSP-14c)				NS	NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	NS	NS	0.0%	NS	NS	NS	NS
GSP-15a (25')				NS	NS	NS	0.0%	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well-15 (25') (GSP-15c)				0.0%	NS	0.0%	NS	0.0%	NS	NS	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	NS	NS	0.0%
Well-16 (25') (GSP-16c)				NS	NS	0.0%	NS	0.0%	NS	NS	0.0%	NS	NS	0.0%	0.0%	NS	0.0%	NS	NS	0.0%
Well-17 (25') (GSP-17c)				0.0%	0.0%	0.0%	0.0%	0.0%	NS	NS	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	NS	0.0%	0.0%
GSP-17a (25') (GSP-17ac)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	NS
GSP-17aa (25') (GSP-17aac)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS
Well-18 (25') (GSP-18c)				NS	NS	1.0%	NS	0.0%	NS	NS	0.0%	0.0%	NS	NS	0.0%	0.0%	0.0%	NS	NS	NS
GSP-18a (25') (GSP-18ac)				NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS	ND	NS	NS	NS	NS	NS
GSP-18b (25') (GSP-18bc)				NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS	ND	NS	NS	NS	NS	NS
Well-19 (25') (GSP-19c)				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
GSP-19a (25') (GSP-19ac)				NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	NS	NS	NS	0.0%	0.0%	0.0%	0.0%	NS
GSP-19aa (25') (GSP-19aac)				NS	NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	NS	NS	NS	0.0%	0.0%	NS	NS
GSP-19b (25') (GSP-19bc)				NS	NS	NS	NS	NS	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
GSP-19bb (25') (GSP-19bbc)				NS	NS	NS	NS	NS	NS	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
GSP-19bbb (25') (GSP-19bbbc)				NS	NS	NS	NS	NS	NS	0.0%	NS	0.0%	NS	0.0%	NS	NS	0.0%	NS	NS	0.0%
GSP-19bbbb (25') (GSP-19bbbbc)				NS	NS	NS	NS	NS	NS	NS	NS	0.0%	NS	NS	NS	NS	0.0%	NS	NS	NS
Well-20 (25') (GSP-20c)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	N	NS	0.0%	NS	NS	NS

Note:
 NS - Not Sampled
Bold values exceed regulatory acceptable levels (25% LEL)
 * - Due to a large berm located offsite behind Well-13, sampling at the GSP-13 (25') location could not be conducted.

TABLE 7
OCTOBER 2013 - BAROMETRIC PRESSURE DATA
 LEGLER LANDFILL (FACILITY No. 1511A)
 JACKSON TOWNSHIP, OCEAN COUNTY, NEW JERSEY

Weather Station Location	State	Date & Time	Time Interval	Temperature	Precipitation	Wind Speed	Wind Direction	Barometric Pressure
Cream Ridge	NJ	10/22/2013 10:00	24 hours prior	59	0	6	S	29.86
Cream Ridge	NJ	10/22/2013 22:00	12 hours prior	51	0	5	WNW	29.85
Cream Ridge	NJ	10/23/2013 0:00	10 hours prior	45	0	2	NW	29.84
Cream Ridge	NJ	10/23/2013 2:00	8 hours prior	38	0	1	NW	29.83
Cream Ridge	NJ	10/23/2013 4:00	6 hours prior	41	0	1	WNNW	29.8
Cream Ridge	NJ	10/23/2013 6:00	4 hours prior	42	0	1	NNE	29.78
Cream Ridge	NJ	10/23/2013 8:00	2 hours prior	44	0	3	N	29.78
Cream Ridge	NJ	10/23/2013 10:00	During Monitoring	47	0	3	N	29.74
Cream Ridge	NJ	10/23/2013 11:00	During Monitoring	48	0	4	NNW	29.7
Cream Ridge	NJ	10/23/2013 12:00	During Monitoring	50	0	3	NNE	29.68
Cream Ridge	NJ	10/23/2013 13:00	During Monitoring	52	0	10	ENE	29.65
Cream Ridge	NJ	10/23/2013 14:00	During Monitoring	51	0	2	ENE	29.63
Cream Ridge	NJ	10/23/2013 15:00	During Monitoring	53	0	3	NE	29.63
Cream Ridge	NJ	10/23/2013 16:00	During Monitoring	53	0	1	SSE	29.63

Notes:

Bold Cells indicate the times which FPA conducted the gas monitoring event

-- = Data Not Collected by weather station.

FIGURES

Figure 1
Changes in Onsite Methane Concentrations

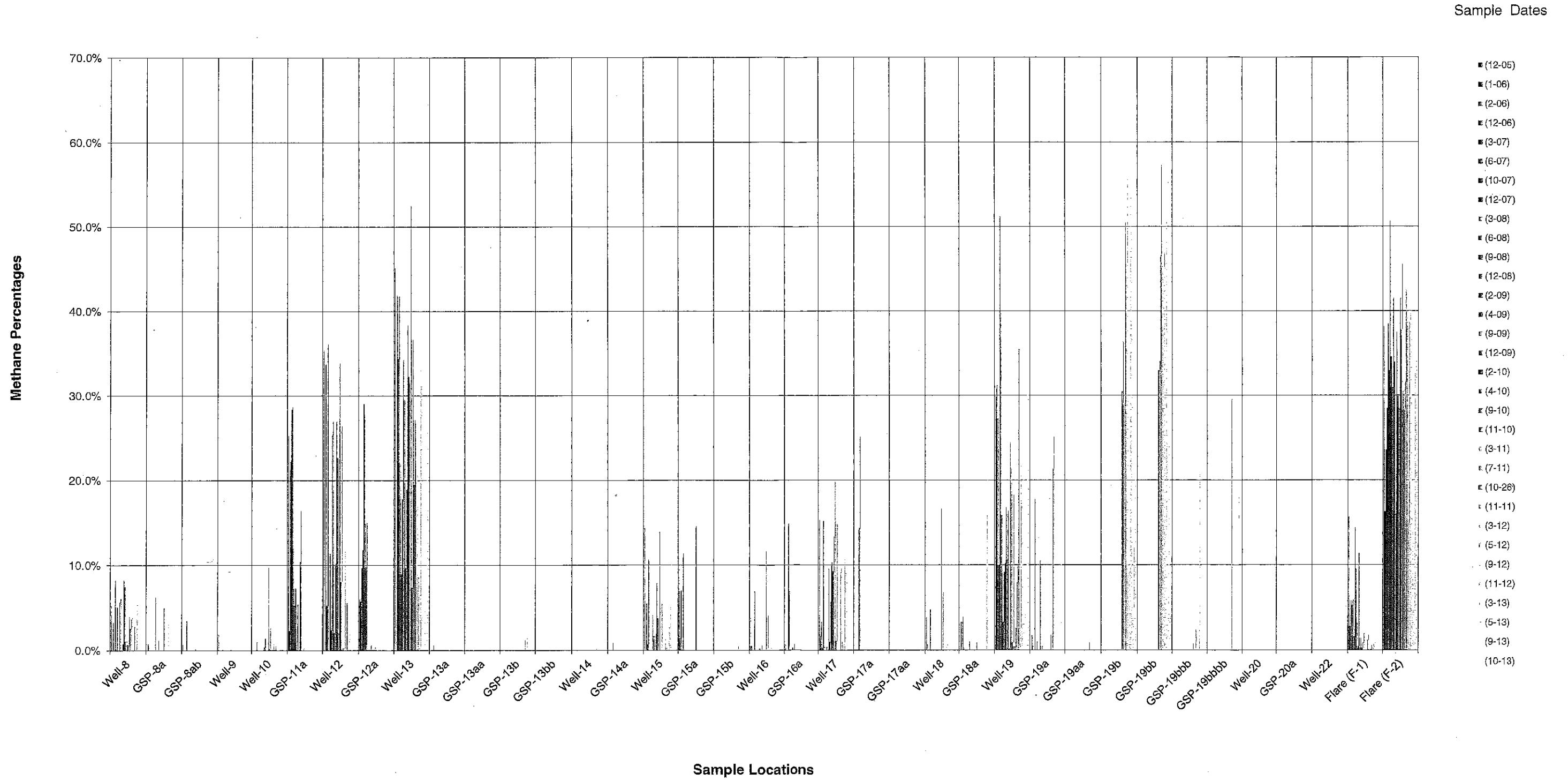
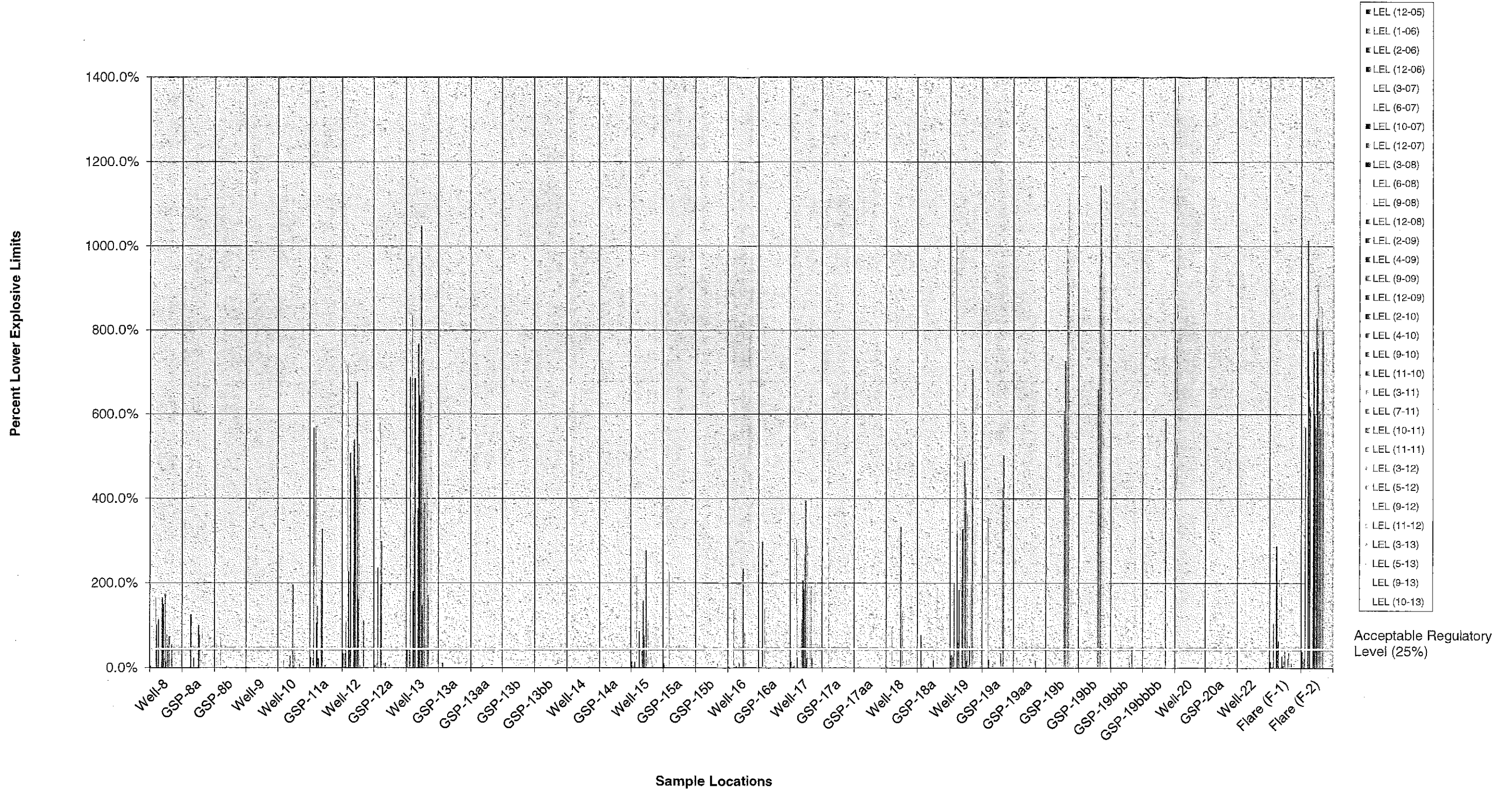


Figure 2
Changes in Onsite Lower Explosive Limits



**Figure 3
Changes in Offsite Methane Concentrations**

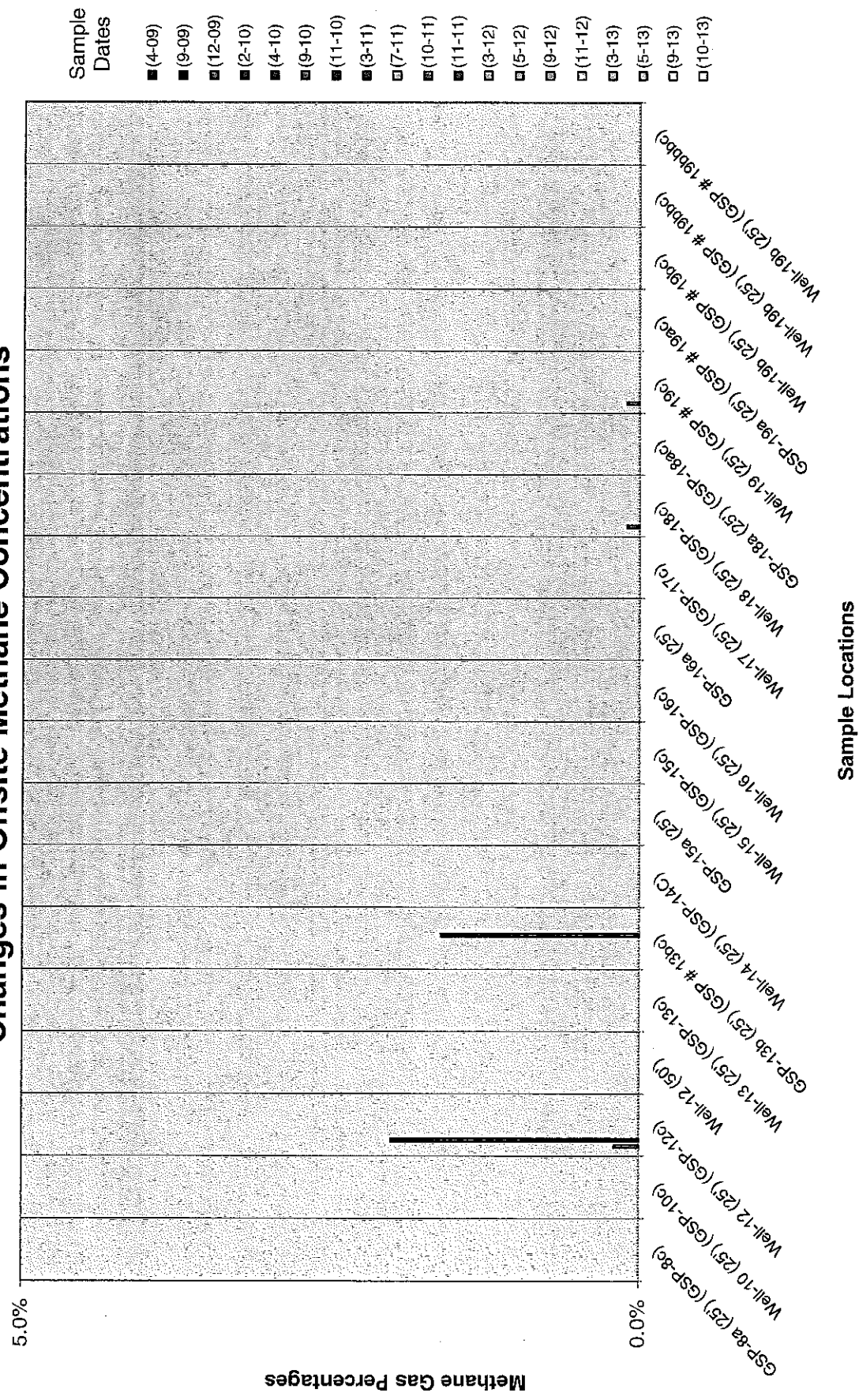
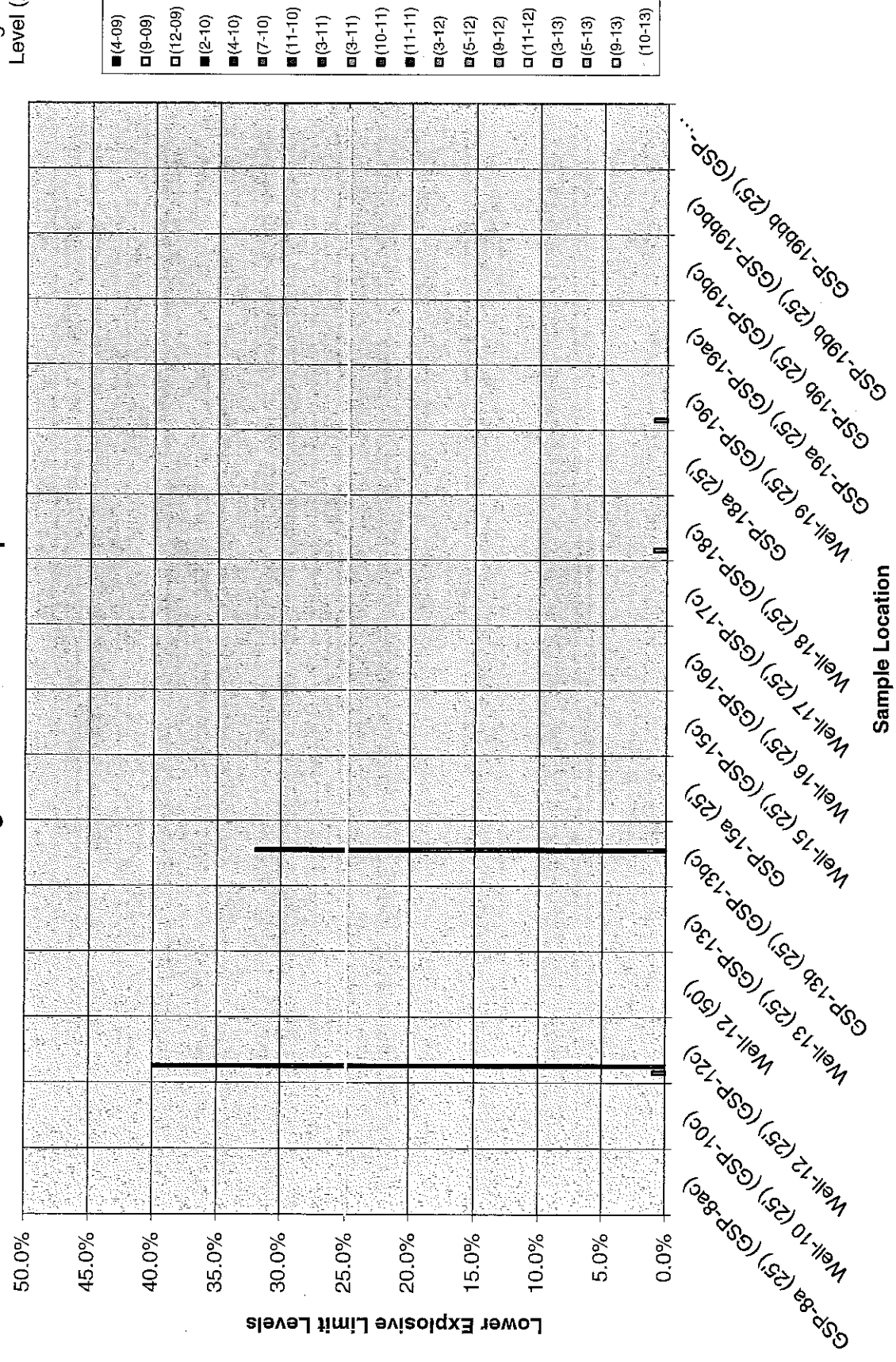


Figure 4
Changes in Offsite Lower Explosive Limits

= Acceptable
 Regulatory
 Level (25%)



- (4-09)
- (9-09)
- (12-09)
- (2-10)
- (4-10)
- (7-10)
- (11-10)
- (3-11)
- (3-11)
- (10-11)
- (11-11)
- (3-12)
- (5-12)
- (9-12)
- (11-12)
- (3-13)
- (5-13)
- (9-13)
- (10-13)