Novak, Dion

From: Mike Samples [mikes@demaximis.com]
Sent: Monday, June 10, 2013 7:48 AM
To: Novak, Dion; Renninger, Steven
Cc: Scott Glum
Subject: Monthly Progress Report (North Sanitary Landfill)
Attachments: MPR220(NSL).pdf

US EPA RECORDS CENTER REGION 5
460183

Gentlemen,

Attached, in .pdf file format, is an electronic copy of the North Sanitary Landfill Monthly Progress Report (MPR). The MPR is reflective of Removal Action activities that were performed during the month of May 2013 in accordance with the U.S. EPA Administrative Order by Consent (AOC). Per the AOC, an official hard copy of this report is also being transmitted to you both via Certified Mail. If you have any questions please feel free to contact me.

Regards,
Mike

de maximis, inc.

450 Montbrook Lane
Knoxville, TN 37919
(865) 691-5052
(865) 691-6485 FAX
(865) 691-9835 ACCT. FAX

Via Electronic
and Certified Mail

June 10, 2013

Mr. Dion Novak
Remedial Project Manager
U. S. Environmental protection Agency
77 W. Jackson Blvd.
Mail Stop SR-6J
Chicago, Illinois 60604

Mr. Steve Renninger
On-Scene Coordinator
U. S. Environmental Protection Agency
26 West Martin Luther King Drive, G-41
Cincinnati, Ohio 45268

Re: Monthly Progress Report #220 – May 2013
North Sanitary Landfill - Dayton, Montgomery County, Ohio

Dear Mr. Novak and Mr. Renninger:

In accordance with Section V, Subsection 2.5, of the Administrative Order by Consent for the North Sanitary Landfill, please find enclosed a summary of site-related activities for May 2013.

Should you have any questions or comments, please do not hesitate to contact me at (865) 691-5052.

Sincerely,
de maximis, inc.

Michael H. Samples
Alternate Project Coordinator

MHS:dlb

Attachments

cc: H. Cole (w/ attachment; via U.S. Mail)
S. Glum (w/ attachment; via U.S. Mail)
T. Hut (w/ attachment; via U.S. Mail)
J. Weatherington-Rice (w/ attachment; via U.S. Mail)
N. Wood-Chi (w/ attachment; via U.S. Mail)
VLSG Distribution (w/ attachments; via e-mail)

Monthly Progress Report
Report #220 – May 2013
North Sanitary Landfill
Dayton, Ohio

A. Actions Taken Toward Compliance with the Order

- Operation and monitoring of the landfill gas abatement system (LGAS) was continued;
- The site fence was inspected during the reporting period and any necessary repairs were addressed;
- On May 15, 2013, the annual flare inlet gas samples were collected and shipped to Test America Laboratory for analysis;
- On May 15, 2013, the second quarter combustible gas indicator checks were successfully performed; and,
- On May 23, 2013, the respondents received an invoice from U.S. EPA in the amount of $16,343.86 for oversight costs associated with the period of February 1, 2011 through January 31, 2013. On May 28, 2013, Common Counsel for the respondents communicated with U.S. EPA's Counsel via e-mail and requested that the Agency review the bill to confirm charges are consistent with the AOC.

B/C. Problems Encountered/Actions to Rectify Problems

- None.

D. Changes in Removal Action Activities

- None.

E. Site Data

- Bi-weekly LGAS compliance data summaries for the month of May 2013 are presented in Attachment A of this report.

F. Planned Activities for the Next Reporting Period (June 2013)

- Develop Monthly Progress Report (MPR) #220 summarizing activities in May 2013;
- Continue LGAS operation and performance monitoring;
- Receive analytical data from Test America Laboratory associated with the flare inlet sampling activity performed on May 15, 2013, and review for summarization in the next MPR; and,
- Fund U.S. EPA's oversight invoice, once U.S. EPA's legal counsel confirms that all charges are consistent with the AOC.

G. Schedule of Significant Activities and Deliverables (June 2013)

- June 10 - Anticipated submittal of the May 2013 MPR to U.S. EPA;
- Early June - Receive analytical data associated with the flare inlet sampling; and,
- June 24 - Fund U.S. EPA's oversight invoice.

H. Changes in Personnel During Reporting Period

- None.

I. Significant Correspondence, Telephone Conversations, or Discussions

Communication	Date	Recipient(s)	Subject
dmi transmittal	05/10/13	U.S. EPA	Monthly Progress Report for the Month of April 2013.

ATTACHMENT A

(BI-WEEKLY LGAS SUMMARIES)

R. M. BROYLES COMPANY, L. L. C.

P.O. Box 13154, Dayton, OH 45413 MOB # 937-776-5304 email: rmbcom@woh.rr.com

REPORT COVER PAGE

To: Gary Saylor SCS <gsaylor@scsengineers.com> Pages: 5

From: Mike Broyles <rmbcom@woh.rr.com>

Date: 5/10/2013

Subject: LFG Monitoring Summary - Week of 04/29/13 - 05/05/13

Summary: All CPs remained in compliance this two week period.
There were no (0) flare flame failures due to low methane or other issues.
Flare operating cycles were 240 to mins. ON and 1200 mins. OFF.
Bi-Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed May 5, 2013 with temps of 60 to 65°F and overcast with light rain conditions.
Vacuum readings were last taken on May 5, 2013.
Valves were open to Legs 1b, 2, 3A, 3B, 4 and 5; and
Wells open were NW 1-8, WC 1 & 4, SW 1 & 2, EW 1-4, 7, 8, 10, 11 & 12.

Flare Operating Hours:

	AM				PM				
Date	on	off	on	off	on	off	on	off	"ON" Hours
4/29/2013	–	–	–	–	12:30	4:30	–	–	4.0
4/30/2013	–	–	--	–	12:30	4:30	–	–	4.0
5/1/2013	–	–	10:00	–	–	2:00	–	–	4.0
5/2/2013	–	–	10:00	–	–	2:00	–	–	4.0
5/3/2013	--	–	10:00	–	–	2:00	–	–	4.0
5/4/2013	–	–	10:00	–	--	2:00	–	–	4.0
5/5/2013	–	–	10:00	–	–	2:00	–	–	4.0
								Total Hrs. =	28.0

Notes: # = Flare shut down during operation.
* = Flare reset to operate full time with propane.
@ = Flare reset to operate full time with methane.
+ = Other reason
Times represent Flare Clock which is currently set to EDT.
Flow rate was 190 - 220 scfm. Temperature range (middle thermocouple) 1520 - 1570° F.

Daily/Weekly Monitoring Times:

Date	Probes/Wells Monitored	Sampling Period	Readings	Barometric Pressure	Trend
4/29/2013	–	–	–	–	–
4/30/2013	–	–	–	–	–
5/1/2013	–	–	–	–	–
5/2/2013	–	–	–	–	–
5/3/2013	–	–	–	–	–
5/4/2013	CPs 1b-3, TGP/GPs	10:00A - 2:00P	0.0	30.04 - 30.00	F
5/5/2013	CPs 1,4 &5, TGP/GPs, GVs, E&SWs	10:00A - 18:30P	0.0	30.00 - 29.94	F

Notes: CPs = Compliance Probes;
S&EW = Supplemental and Extraction Wells; and
Leg numbers = 1, 1b, 2, 3A, 3B, 4 & 5.
Readings in **BOLD** represent **Compliance Probe (CP)** readings greater than 5.0%
Barometric Pressure represents pressure and range during Sampling Period. Trend: R = rising, F = falling, S = steady

CONFIDENTIALITY NOTE: THIS MESSAGE IS INTENDED ONLY FOR THE INDIVIDUAL/S OR ENTITY/IES TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT/S, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT/S, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY R. M. BROYLES COMPANY, L. L. C. IMMEDIATELY BY TELEPHONE AT (937) 890-6985, AND RETURN THE ORIGINAL MESSAGE TO R. M. BROYLES COMPANY, L. L. C. AT THE ABOVE ADDRESS VIA THE U. S. POSTAL SERVICE.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	29-Apr		30-Apr		1-May		2-May		3-May		4-May		5-May	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
CP1-2	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
CP1-3	–	–	–	–	–	–	–	–	–	–	0.0	18.6	–	–
CP1-4	–	–	–	–	–	–	–	–	–	–	0.0	16.1	–	–
CP1-5	–	–	–	–	–	–	–	–	–	–	0.0	16.6	–	–
CP1-7	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–
CP1-9	–	–	–	–	–	–	–	–	–	–	0.0	16.7	–	–
CP1-11	–	–	–	–	–	–	–	–	–	–	0.0	16.2	–	–
CP1-13	–	–	–	–	–	–	–	–	–	–	0.0	15.2	–	–
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	–	–	0.0	17.9	–	–
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	–	–	0.0	16.3	–	–
CP1b-2R	–	–	–	–	–	–	–	–	–	–	0.0	19.3	–	–
CP1b-4R	–	–	–	–	–	–	–	–	–	–	0.0	19.2	–	–
CP1b-6R	–	–	–	–	–	–	–	–	–	–	0.0	17.7	–	–
TGP1b-E	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
TGP1b-A	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
TGP1b-F	–	–	–	–	–	–	–	–	–	–	0.0	19.7	–	–
TGP1b-B	–	–	–	–	–	–	–	–	–	–	0.0	18.1	–	–
TGP1b-G	–	–	–	–	–	–	–	–	–	–	0.0	19.5	–	–
TGP1b-C	–	–	–	–	–	–	–	–	–	–	0.0	19.3	–	–
TGP1b-H	–	–	–	–	–	–	–	–	–	–	0.0	14.3	–	–
TGP1b-D	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
GP-03	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
TGP-82	–	–	–	–	–	–	–	–	–	–	0.0	17.4	–	–
GP-04	–	–	–	–	–	–	–	–	–	–	0.0	17.3	–	–
TGP-83	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
CP2-1	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–
CP2-2	–	–	–	–	–	–	–	–	–	–	0.0	14.8	–	–
CP2-4R	–	–	–	–	–	–	–	–	–	–	0.0	19.3	–	–
CP2-5R	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
CP-6R	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
CP2-7	–	–	–	–	–	–	–	–	–	–	0.0	17.4	–	–
CP2-9	–	–	–	–	–	–	–	–	–	–	0.0	15.7	–	–
TGP-06	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
TGP-East	–	–	–	–	–	–	–	–	–	–	0.0	16.7	–	–
TGP-Dads	–	–	–	–	–	–	–	–	–	–	0.0	19.3	–	–
CP3-1RR	–	–	–	–	–	–	–	–	–	–	0.0	15.5	–	–
CP3-2R	–	–	–	–	–	–	–	–	–	–	0.0	17.1	–	–
CP3-4R	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
CP3-5R	–	–	–	–	–	–	–	–	–	–	0.0	20.0	–	–
CP3-7R	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
CP3-8R	–	–	–	–	–	–	–	–	–	–	0.0	16.9	–	–
CP3-9	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
CP3-10R	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
CP3-12R	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
CP3-13R	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
CP3-14R	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
CP3-15R	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
TGP-89	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
CP4-A	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
CP4-B	–	–	–	–	–	–	–	–	–	–	0.0	19.2	–	–
CP4-C	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
CP4-1	–	–	–	–	–	–	–	–	–	–	0.0	20.4	–	–
CP4-2	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
CP4-3	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
CP4-4	–	–	–	–	–	–	–	–	–	–	0.0	20.7	–	–
CP4-6	–	–	–	–	–	–	–	–	–	–	0.0	20.7	–	–
CP5-1R	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
CP5-3R	–	–	–	–	–	–	–	–	–	–	0.0	17.4	–	–
CP5-4R	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
CP5-6	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
CP5-8	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;

(2) NR = Value not recorded.

(3) NS = Not sampled due to instrument failure or snow cover;

(4) Values in Bold Face Type exceed applicable concentration ceilings of 5% methane by volume

(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.

(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	29-Apr		30-Apr		1-May		2-May		3-May		4-May		5-May	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.3
TGP-63	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.5
TGP-57	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.4
TGP-62	–	–	–	–	–	–	–	–	–	–	–	–	0.0	14.5
GP-12	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.7
TGP-60	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.2
TGP-65	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.4
TGP-66	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.7
TGP-67	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.0
TGP-68	–	–	–	–	–	–	–	–	–	–	–	–	0.0	14.7
TGP-53	–	–	–	–	–	–	–	–	–	–	–	–	0.0	12.8
TGP-59	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.6
TGP-58	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.2
GP-14	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.1
TGP-87	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.5
TGP-88	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.6
TGP-89	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
TGP-90	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
GP-17	–	–	–	–	–	–	–	–	–	–	0.0	16.9	–	–
TGP-91	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
GP-18	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP-73	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP-74	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
TGP-84	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
TGP-75	–	–	–	–	–	–	–	–	–	–	0.0	13.8	–	–
TGP-85	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
TGP-72	–	–	–	–	–	–	–	–	–	–	0.0	12.5	–	–
TGP-86	–	–	–	–	–	–	–	–	–	–	0.0	15.8	–	–
TGP-32	–	–	–	–	–	–	–	–	–	–	0.0	19.2	–	–

(1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded.
(3) NS = Not sampled due to instrument failure;
(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume
(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 15 - April 21						Week of:	Apr 29 - May 5					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	-2.90	–	–	–	–	–	LEG 1	-1.67	–	–	–	–	–
GV1-1	–	66	2.1	1.4	18	79	GV1-1	–	76	0.9	0.0	18	81
GV1-2	–	–	11.8	7.2	12	69	GV1-2	–	–	17.2	7.7	17	58
GV1-3	–	–	6.2	12.0	9.2	73	GV1-3	–	–	12.2	8.8	12	68
GV1-4	–	–	22.4	6.2	22	49	GV1-4	–	–	23.8	3.1	24	49
GV1-5	–	–	2.8	5.2	13	79	GV1-5	–	–	19.9	0.5	20	60
GV1-6	–	–	1.5	8.8	10	80	GV1-6	–	–	22.7	0.4	23	54
GV1-7	–	–	4.3	4.8	20	71	GV1-7	–	–	0.5	18.7	0.5	80
GV1-8	–	–	0.6	2.1	19	78	GV1-8	–	–	20.3	0.5	20	59
GV1-9	–	–	0.6	2.9	18	79	GV1-9	–	–	20.6	0.1	21	58
GV1-10X	–	–	11.7	0.5	20	68	**GV1-10X**	–	–	20.4	0.4	20	59
GV1-11	–	–	7.3	1.9	18	73	GV1-11	–	–	19.9	0.9	20	59
GV1-12	–	–	4.1	1.8	18	76	GV1-12	–	–	19.3	2.5	19	59
GV1-13	–	–	2.4	0.3	18	79	GV1-13	–	–	18.2	0.2	18	64
LEG 1b	–	–	–	–	–	–	**LEG 1b**	-1.18	–	–	–	–	–
GV1b-1	–	–	0.8	14.0	4.0	81	GV1b-1	–	–	0.9	13.7	5.8	80
GV1b-2	–	–	0.1	17.9	0.3	82	GV1b-2	–	–	1.0	18.7	5.8	75
GV1b-3	–	–	0.1	19.5	0.4	80	GV1b-3	–	–	0.6	16.1	2.7	81
GV1b-4	–	–	0.5	14.8	8.3	76	GV1b-4	–	–	0.6	10.9	8.8	60
GV1b-5	–	58	0.4	12.8	2	85	GV1b-5	–	80	0.0	19.5	0.7	80
LEG 2	-0.21	–	–	–	–	–	**LEG 2**	-0.27	–	–	–	–	–
GV2-1	–	–	1.5	15.5	5.8	77	GV2-1	–	–	2.3	13.8	6.8	77
GV2-2	–	76	0.3	15.3	5.8	79	GV2-2	–	80	1.0	10.0	8.9	80
GV2-3	–	80	0.3	14.6	7.9	77	GV2-3	–	76	11.5	1.7	18	69
GV2-4	–	88	0.2	12.0	9.3	79	GV2-4	–	82	11.3	1.6	18	69
LEG 3	-0.24	–	–	–		–	**LEG 3**	-0.19	–	–	–		–
GV3-1	–	–	19.9	1.2	20	59	GV3-1	–	–	56.8	0.0	30	13
GV3-2	–	–	38.8	1.8	24	35	GV3-2	–	–	43.1	1.8	25	30
GV3-3	–	–	0.9	14.9	4.5	80	GV3-3	–	–	0.8	16.4	4.2	79
GV3-4	–	58	2.2	9.3	12	77	GV3-4	–	86	4.1	6.7	12	77
GV3-5	–	–	2.9	6.0	11	80	GV3-5	–	–	5.0	4.9	13	77
GV3-6	–	–	3.0	2.8	14	80	GV3-6	–	–	3.4	1.4	14	81
GV3-7	–	–	0.5	3.8	11	85	GV3-7	–	–	2.1	1.8	14	82
GV3-8	–	–	0.3	6.0	10	84	GV3-8	–	–	2.7	0.0	15	82
GV3-9	–	–	4.9	5.4	12	78	GV3-9	–	–	7.9	3.2	13	76
GV3-10 X	–	–	0.3	4.1	12	84	**GV3-10 X**	–	–	12.1	1.8	14	72
GV3-11	–	–	0.9	1.7	15	82	GV3-11	–	–	1.1	1.7	15	82
GV3-12	–	–	4.2	3.2	14	79	GV3-12	–	–	1.1	3.5	15	80
GV3-13	–	–	2.3	2.0	16	80	GV3-13	–	–	7.3	0.5	18	74
GV3-14	–	–	17.9	0.2	20	62	GV3-14	–	–	19.2	0.4	20	60
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
LEG 4	-0.47	–	–	–	–	–	**LEG 4**	-0.24	–	–	–	–	–
GV4-C	–	64	0.8	6.3	10	83	GV4-C	–	72	0.6	6.6	11	82
GV4-B	–	–	0.2	2.1	14	84	GV4-B	–	–	0.6	1.2	14	84
GV4-A	–	–	0.8	7.8	4.8	87	GV4-A	–	–	1.3	5.2	10	84
GV4-1	–	–	1.5	15.5	2.9	80	GV4-1	–	–	4.2	9.9	7.3	79
GV4-2	–	–	9.4	10.0	12	69	GV4-2	–	–	7.6	7.9	13	72
GV4-3	–	–	2.8	9.2	10	78	GV4-3	–	–	2.7	8.1	11	78
GV4-4 X	–	–	0.1	19.8	0.2	80	**GV4-4 X**	–	–	0.0	19.6	0.2	80
GV4-5	–	–	7.4	8.9	11	73	GV4-5	–	–	5.9	9.1	10	75
GV4-6	–	–	3.9	5.4	13	78	GV4-6	–	–	2.3	7.2	11	80
GV4-7	–	–	17.9	1.2	21	60	GV4-7	–	–	21.2	2.5	21	55
LEG 5	-0.55	–	–	–	–	–	**LEG 5**	-0.39	–	–	–	–	–
GV5-1	–	76	0.1	20.0	0.2	80	GV5-1	–	82	0.6	19.2	1.0	79
GV5-2	–	–	0.1	19.7	1.2	79	GV5-2	–	–	1.3	18.2	1.5	79
GV5-3	–	–	0.1	20.0	0.5	79	GV5-3	–	–	0.8	13.3	5.3	81
GV5-4	–	–	14.7	2.8	12	71	GV5-4	–	–	0.8	11.0	7.1	81
GV5-5	–	–	3.2	13.2	8.4	75	GV5-5	–	–	5.4	1.6	14	79
GV5-6	–	–	2.4	16.6	2.4	79	GV5-6	–	–	1.4	6.5	11	81
GV5-7	–	–	2.5	16.7	2.3	79	GV5-7	–	–	1.0	7.4	10	82
GV5-8	–	–	0.9	13.5	6.4	79	GV5-8	–	–	0.0	17.2	2.6	80
GV5-9	–	–	0.1	13.1	5.4	81	GV5-9	–	–	0.0	18.7	2.7	79

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 15 - April 21						Week of:	Apr 29 - May 5					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	-1.02	–	7.4	9.1	17	67	EW-1	–	–	8.9	4.8	17	69
EW-2	-0.49	–	0.0	14.6	6.3	79	EW-2	–	–	0.1	9.8	9.3	81
EW-3	-0.82	–	17.5	3.0	19	61	EW-3	–	–	20.4	0.7	20	59
EW-4	–	–	35.0	0.0	28	37	EW-4	–	–	27.4	0.0	26	47
EW-5	–	–	18.6	0.6	22	59	EW-5	–	–	35.9	0.0	29	35
EW-6	–	–	20.9	0.0	23	56	EW-6	–	–	35.5	0.0	24	41
EW-7	–	–	21.1	0.0	24	55	EW-7	–	–	23.1	0.0	24	53
EW-8	–	–	32.4	0.0	28	40	EW-8	–	–	32.3	0.0	28	40
EW-9	–	–	33.0	0.0	27	40	EW-9	–	–	35.3	0.0	28	37
EW-10	-0.30	–	0.6	5.5	9.2	85	EW-10	–	–	7.4	9.2	11	72
EW-11	-1.11	–	0.4	18.7	1.6	79	EW-11	–	–	8.6	18.3	1.9	71
EW-12	-0.74	–	7.7	5.6	17.0	70	EW-12	–	–	0.7	15.4	4.4	80
SW1	–	–	28.3	0.4	28	43	SW1	–	–	32.9	0.0	31	36
SW2	–	–	30.2	0.0	29	41	SW2	–	–	33.7	0.0	31	35
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	10.2	1.6	23	65	NW1	–	–	7.8	0.0	22	70
NW2	–	–	39.5	0.0	32	29	NW2	–	–	36.7	0.0	31	32
NW3	–	–	41.3	0.0	32	27	NW3	–	–	34.7	0.0	31	34
NW4	–	–	14.7	0.0	21	64	NW4	–	–	18.7	0.0	23	58
NW5	–	–	11.4	0.0	22	67	NW5	–	–	9.3	0.0	22	69
NW6	–	–	44.8	0.0	36	19	NW6	–	–	50.3	0.0	36	14
NW7	–	–	65.4	0.0	35	0	NW7	–	–	63.4	0.0	35	2
NW8	–	–	12.9	0.0	22	65	NW8	–	–	9.5	0.0	22	69
WC1	–	–	42.6	0.0	31	26	WC1	–	–	42.6	0.0	31	26
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	-4.00+	–	–	–	–	FLARE 90	–	-4.00+	–	–	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

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REPORT COVER PAGE

To: Gary Saylor SCS <gsaylor@scsengineers.com> Pages: 5

From: Mike Broyles <rmbcom@woh.rr.com>

Date: 5/30/2013

Subject: LFG Monitoring Summary - Week of 05/13/13 - 05/19/13

Summary: All CPs remained in compliance this two week period.
There were no (0) flare flame failures due to low methane or other issues.
Flare operating cycles were 240 to 270 to mins. ON and 1170 to 1200 mins. OFF.
Bi-Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed May 18, 2013 with temps of 70 to 77°F and overcast conditions.
Vacuum readings were last taken on May 5, 2013.
Valves were open to Legs 1b, 2, 3A, 3B, 4 and 5; and
Wells open were NW 1-8, WC 1 & 4, SW 1 & 2, EW 1-4, 7, 8, 10, 11 & 12.

Flare Operating Hours:

	AM				PM				
Date	on	off	on	off	on	off	on	off	"ON" Hours
5/13/2013	–	–	8:30	–	–	12:30	–	–	4.5
5/14/2013	–	–	8:30	–	–	12:30	–	–	4.5
5/15/2013	–	–	–	–	2:00	4:00	5:00	6:00	3.0
5/16/2013	–	–	–	–	2:00	–	–	6:00	4.0
5/17/2013	–	–	–	–	2:00	–	–	6:00	4.0
5/18/2013	–	–	–	–	2:00	–	–	6:00	4.0
5/19/2013	–	–	–	–	2:00	–	–	6:00	4.0
								Total Hrs. =	28.0

Notes: # = Flare shut down during operation.
* = Flare reset to operate full time with propane.
@ = Flare reset to operate full time with methane.
+ = Other reason
Times represent Flare Clock which is currently set to EDT.
Flow rate was 190 - 220 scfm. Temperature range (middle thermocouple) 1520 - 1570° F.

Daily/Weekly Monitoring Times:

Date	Probes/Wells Monitored	Sampling Period	Readings	Barometric Pressure	Trend
5/13/2013	–	–	–	–	–
5/14/2013	–	–	–	–	–
5/15/2013	–	–	–	–	–
5/16/2013	–	–	–	–	–
5/17/2013	CPs 1-5, TGP/GPs	10:00A - 3:00P	0.0	30.08 - 30.04	F
5/18/2013	TGP/GPs, GVs, E&SWs	12:00 - 18:00P	0.0	30.08 - 29.99	F
5/19/2013	–	–	–	–	–

Notes: CPs = Compliance Probes;
S&EW = Supplemental and Extraction Wells; and
Leg numbers = 1, 1b, 2, 3A, 3B, 4 & 5.
Readings in **BOLD** represent **Compliance Probe (CP)** readings greater than 5.0%
Barometric Pressure represents pressure and range during Sampling Period. Trend: R = rising, F = falling, S = steady

CONFIDENTIALITY NOTE: THIS MESSAGE IS INTENDED ONLY FOR THE INDIVIDUAL/S OR ENTITY/IES TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT/S, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT/S. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY R. M. BROYLES COMPANY, L. L. C. IMMEDIATELY BY TELEPHONE AT (937) 890-6985, AND RETURN THE ORIGINAL MESSAGE TO R. M. BROYLES COMPANY, L. L. C. AT THE ABOVE ADDRESS VIA THE U. S. POSTAL SERVICE.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	13-May		14-May		15-May		16-May		17-May		18-May		19-May	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	0.0	19.0	–	–	–	–
CP1-2	–	–	–	–	–	–	–	–	0.0	17.3	–	–	–	–
CP1-3	–	–	–	–	–	–	–	–	0.0	15.7	–	–	–	–
CP1-4	–	–	–	–	–	–	–	–	0.0	16.4	–	–	–	–
CP1-5	–	–	–	–	–	–	–	–	0.0	16.8	–	–	–	–
CP1-7	–	–	–	–	–	–	–	–	0.0	18.4	–	–	–	–
CP1-9	–	–	–	–	–	–	–	–	0.0	17.8	–	–	–	–
CP1-11	–	–	–	–	–	–	–	–	0.0	18.3	–	–	–	–
CP1-13	–	–	–	–	–	–	–	–	0.0	20.2	–	–	–	–
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	0.0	16.5	–	–	–	–
CP1b-2R	–	–	–	–	–	–	–	–	0.0	19.0	–	–	–	–
CP1b-4R	–	–	–	–	–	–	–	–	0.0	18.5	–	–	–	–
CP1b-6R	–	–	–	–	–	–	–	–	0.0	16.6	–	–	–	–
TGP1b-E	–	–	–	–	–	–	–	–	0.0	20.2	–	–	–	–
TGP1b-A	–	–	–	–	–	–	–	–	0.0	20.6	–	–	–	–
TGP1b-F	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
TGP1b-B	–	–	–	–	–	–	–	–	0.0	20.4	–	–	–	–
TGP1b-G	–	–	–	–	–	–	–	–	0.0	19.2	–	–	–	–
TGP1b-C	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
TGP1b-H	–	–	–	–	–	–	–	–	0.0	18.7	–	–	–	–
TGP1b-D	–	–	–	–	–	–	–	–	0.0	20.3	–	–	–	–
GP-03	–	–	–	–	–	–	–	–	0.0	18.5	–	–	–	–
TGP-82	–	–	–	–	–	–	–	–	0.0	17.0	–	–	–	–
GP-04	–	–	–	–	–	–	–	–	0.0	18.1	–	–	–	–
TGP-83	–	–	–	–	–	–	–	–	0.0	18.3	–	–	–	–
CP2-1	–	–	–	–	–	–	–	–	0.0	20.2	–	–	–	–
CP2-2	–	–	–	–	–	–	–	–	0.0	20.4	–	–	–	–
CP2-4R	–	–	–	–	–	–	–	–	0.0	18.1	–	–	–	–
CP2-5R	–	–	–	–	–	–	–	–	0.0	20.4	–	–	–	–
CP-6R	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
CP2-7	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP2-9	–	–	–	–	–	–	–	–	0.0	18.2	–	–	–	–
TGP-06	–	–	–	–	–	–	–	–	0.0	18.5	–	–	–	–
TGP-East	–	–	–	–	–	–	–	–	0.0	15.9	–	–	–	–
TGP-Dads	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
CP3-1RR	–	–	–	–	–	–	–	–	0.0	18.1	–	–	–	–
CP3-2R	–	–	–	–	–	–	–	–	0.0	20.2	–	–	–	–
CP3-4R	–	–	–	–	–	–	–	–	0.0	20.2	–	–	–	–
CP3-5R	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
CP3-7R	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
CP3-8R	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
CP3-9	–	–	–	–	–	–	–	–	0.0	18.8	–	–	–	–
CP3-10R	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
CP3-12R	–	–	–	–	–	–	–	–	0.0	19.5	–	–	–	–
CP3-13R	–	–	–	–	–	–	–	–	0.0	18.9	–	–	–	–
CP3-14R	–	–	–	–	–	–	–	–	0.0	20.4	–	–	–	–
CP3-15R	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
TGP-89	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP4-A	–	–	–	–	–	–	–	–	0.0	18.6	–	–	–	–
CP4-B	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
CP4-C	–	–	–	–	–	–	–	–	0.0	17.9	–	–	–	–
CP4-1	–	–	–	–	–	–	–	–	0.0	12.5	–	–	–	–
CP4-2	–	–	–	–	–	–	–	–	0.0	19.0	–	–	–	–
CP4-3	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
CP4-4	–	–	–	–	–	–	–	–	0.0	19.2	–	–	–	–
CP4-6	–	–	–	–	–	–	–	–	0.0	18.9	–	–	–	–
CP5-1R	–	–	–	–	–	–	–	–	0.0	18.8	–	–	–	–
CP5-3R	–	–	–	–	–	–	–	–	0.0	16.6	–	–	–	–
CP5-4R	–	–	–	–	–	–	–	–	0.0	16.3	–	–	–	–
CP5-6	–	–	–	–	–	–	–	–	0.0	16.4	–	–	–	–
CP5-8	–	–	–	–	–	–	–	–	0.0	16.5	–	–	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;

(2) NR = Value not recorded.

(3) NS = Not sampled due to instrument failure or snow cover;

(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume

(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.

(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	13-May		14-May		15-May		16-May		17-May		18-May		19-May	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
TGP-63	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
TGP-57	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
TGP-62	–	–	–	–	–	–	–	–	–	–	0.0	14.7	–	–
GP-12	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
TGP-60	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
TGP-65	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP-66	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
TGP-67	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
TGP-68	–	–	–	–	–	–	–	–	–	–	0.0	15.5	–	–
TGP-53	–	–	–	–	–	–	–	–	–	–	0.0	13.9	–	–
TGP-59	–	–	–	–	–	–	–	–	–	–	0.0	19.2	–	–
TGP-58	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
GP-14	–	–	–	–	–	–	–	–	–	–	0.0	19.4	–	–
TGP-87	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
TGP-88	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
TGP-89	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
TGP-90	–	–	–	–	–	–	–	–	0.0	19.2	–	–	–	–
GP-17	–	–	–	–	–	–	–	–	0.0	16.2	–	–	–	–
TGP-91	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
GP-18	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
TGP-73	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
TGP-74	–	–	–	–	–	–	–	–	0.0	18.3	–	–	–	–
TGP-84	–	–	–	–	–	–	–	–	0.0	17.6	–	–	–	–
TGP-75	–	–	–	–	–	–	–	–	0.0	15.2	–	–	–	–
TGP-85	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
TGP-72	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
TGP-86	–	–	–	–	–	–	–	–	0.0	18.2	–	–	–	–
TGP-32	–	–	–	–	–	–	–	–	0.0	18.4	–	–	–	–

(1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded.
(3) NS = Not sampled due to instrument failure;
(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume
(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 29 - May 5						Week of:	May 13 - May 19					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	-1.87	–	–	–	–	–	**LEG 1**	–	–	–	–	–	–
GV1-1	–	78	0.9	0.0	18	81	GV1-1	–	50	21.0	0.0	22	57
GV1-2	–	–	17.2	7.7	17	58	GV1-2	–	–	20.7	0.0	22	57
GV1-3	–	–	12.2	9.8	12	66	GV1-3	–	–	6.5	15.1	7.1	71
GV1-4	–	–	23.8	3.1	24	49	GV1-4	–	–	28.6	0.0	29	42
GV1-5	–	–	19.9	0.5	20	60	GV1-5	–	–	18.2	7.0	19	56
GV1-6	–	–	22.7	0.4	23	54	GV1-6	–	–	20.3	5.7	21	53
GV1-7	–	–	0.5	18.7	0.5	80	GV1-7	–	–	0.3	19.2	0.4	80
GV1-8	–	–	20.3	0.5	20	59	GV1-8	–	–	8.5	13.9	10	68
GV1-9	–	–	20.8	0.1	21	58	GV1-9	–	–	4.1	16.8	5.1	74
GV1-10X	–	–	20.4	0.4	20	59	**GV1-10X**	–	–	5.0	15.3	6.6	73
GV1-11	–	–	19.9	0.9	20	59	GV1-11	–	–	8.2	2.0	19	71
GV1-12	–	–	19.3	2.5	19	59	GV1-12	–	–	2.6	16.1	3.8	78
GV1-13	–	–	18.2	0.2	18	64	GV1-13	–	–	6.7	13.8	8.6	71
LEG 1b	-1.16	–	–	–	–	–	**LEG 1b**	–	–	–	–	–	–
GV1b-1	–	–	0.9	13.7	5.8	80	GV1b-1	–	–	1.0	17.4	3.0	79
GV1b-2	–	–	1.0	18.7	5.8	75	GV1b-2	–	–	1.1	16.7	3.4	79
GV1b-3	–	–	0.8	16.1	2.7	81	GV1b-3	–	–	1.8	14.5	5.5	78
GV1b-4	–	–	0.8	10.9	8.8	80	GV1b-4	–	–	3.2	12.7	7.4	77
GV1b-5	–	60	0.0	19.5	0.7	80	GV1b-5	–	56	3.8	12.2	8.0	76
LEG 2	-0.27	–	–	–	–	–	**LEG 2**	–	–	–	–	–	–
GV2-1	–	–	2.3	13.8	6.8	77	GV2-1	–	–	2.7	5.1	14	78
GV2-2	–	80	1.0	10.0	8.9	80	GV2-2	–	64	2.8	4.8	14	78
GV2-3	–	76	11.5	1.7	18	69	GV2-3	–	62	2.9	4.5	14	79
GV2-4	–	82	11.3	1.6	18	69	GV2-4	–	72	3.1	5.9	14	77
LEG 3	-0.19	–	–	–		–	**LEG 3**	–	–	–	–		–
GV3-1	–	–	56.8	0.0	30	13	GV3-1	–	–	55.5	0.0	30	15
GV3-2	–	–	43.1	1.8	25	30	GV3-2	–	–	58.4	0.0	30	12
GV3-3	–	–	0.8	16.4	4.2	79	GV3-3	–	–	56.2	0.0	30	14
GV3-4	–	86	4.1	6.7	12	77	GV3-4	–	58	55.9	0.0	30	14
GV3-5	–	–	5.0	4.9	13	77	GV3-5	–	–	55.3	0.0	30	15
GV3-6	–	–	3.4	1.4	14	81	GV3-6	–	–	54.8	0.3	30	15
GV3-7	–	–	2.1	1.8	14	82	GV3-7	–	–	53.0	0.9	29	17
GV3-8	–	–	2.7	0.0	15	82	GV3-8	–	–	50.9	1.9	28	19
GV3-9	–	–	7.9	3.2	13	76	GV3-9	–	–	55.0	0.0	29	16
GV3-10 X	–	–	12.1	1.8	14	72	**GV3-10 X**	–	–	54.0	0.2	29	17
GV3-11	–	–	1.1	1.7	15	82	GV3-11	–	–	52.7	0.8	29	18
GV3-12	–	–	1.1	3.5	15	80	GV3-12	–	–	54.9	0.1	29	16
GV3-13	–	–	7.3	0.5	18	74	GV3-13	–	–	45.6	1.7	26	27
GV3-14	–	–	19.2	0.4	20	60	GV3-14	–	–	43.7	1.8	26	29
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
LEG 4	-0.24	–	–	–	–	–	**LEG 4**	–	–	–	–	–	–
GV4-C	–	72	0.6	6.6	11	82	GV4-C	–	62	18.0	7.4	15	60
GV4-B	–	–	0.6	1.2	14	84	GV4-B	–	–	18.3	7.5	15	59
GV4-A	–	–	1.3	5.2	10	84	GV4-A	–	–	24.1	2.9	21	52
GV4-1	–	–	4.2	9.9	7.3	79	GV4-1	–	–	21.2	4.3	19	56
GV4-2	–	–	7.6	7.9	13	72	GV4-2	–	–	24.6	1.6	22	52
GV4-3	–	–	2.7	8.1	11	78	GV4-3	–	–	26.2	0.2	24	50
GV4-4 X	–	–	0.0	19.6	0.2	80	**GV4-4 X**	–	–	0.4	18.6	0.8	80
GV4-5	–	–	5.9	9.1	10	75	GV4-5	–	–	26.6	0.9	23	50
GV4-6	–	–	2.3	7.2	11	80	GV4-6	–	–	26.3	0.1	24	50
GV4-7	–	–	21.2	2.5	21	55	GV4-7	–	–	27.0	0.3	24	49
LEG 5	-0.39	–	–	–	–	–	**LEG 5**	–	–	–	–	–	–
GV5-1	–	82	0.6	19.2	1.0	79	GV5-1	–	62	9.7	0.9	14	75
GV5-2	–	–	1.3	18.2	1.5	79	GV5-2	–	–	5.1	1.4	15	79
GV5-3	–	–	0.8	13.3	5.3	81	GV5-3	–	–	0.3	11.4	6.5	82
GV5-4	–	–	0.8	11.0	7.1	81	GV5-4	–	–	0.4	13.9	5.0	81
GV5-5	–	–	5.4	1.6	14	79	GV5-5	–	–	0.2	14.2	4.6	81
GV5-6	–	–	1.4	6.5	11	81	GV5-6	–	–	0.2	11.1	8.0	81
GV5-7	–	–	1.0	7.4	10	82	GV5-7	–	–	0.1	13.1	5.6	81
GV5-8	–	–	0.0	17.2	2.8	80	GV5-8	–	–	0.2	15.8	3.4	81
GV5-9	–	–	0.0	18.7	2.7	79	GV5-9	–	–	0.1	17.2	3.2	80

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 29 - May 5						Week of:	May 13 - May 18					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	–	–	8.9	4.8	17	69	EW-1	–	–	3.4	10.8	10	76
EW-2	–	–	0.1	9.8	9.3	81	EW-2	–	–	0.0	18.7	1.6	80
EW-3	–	–	20.4	0.7	20	59	EW-3	–	–	17.1	1.5	20	61
EW-4	–	–	27.4	0.0	26	47	EW-4	–	–	23.2	0.4	23	53
EW-5	–	–	35.9	0.0	29	35	EW-5	–	–	29.6	0.1	23	47
EW-6	–	–	35.5	0.0	24	41	EW-6	–	–	62.0	0.0	24	14
EW-7	–	–	23.1	0.0	24	53	EW-7	–	–	18.4	0.2	23	59
EW-8	–	–	32.3	0.0	28	40	EW-8	–	–	26.1	0.0	25	49
EW-9	–	–	35.3	0.0	28	37	EW-9	–	–	31.8	0.0	27	41
EW-10	–	–	7.4	9.2	11	72	EW-10	–	–	6.0	8.9	10	75
EW-11	–	–	8.6	18.3	1.9	71	EW-11	–	–	11.5	6.3	15	67
EW-12	–	–	0.7	15.4	4.4	80	EW-12	–	–	0.0	15.3	4.6	80
SW1	–	–	32.9	0.0	31	36	SW1	–	–	24.4	0.2	17	58
SW2	–	–	33.7	0.0	31	35	SW2	–	–	17.8	7.6	17	58
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	7.8	0.0	22	70	NW1	–	–	41.3	0.0	32	27
NW2	–	–	36.7	0.0	31	32	NW2	–	–	40.9	0.0	32	27
NW3	–	–	34.7	0.0	31	34	NW3	–	–	45.2	0.0	35	20
NW4	–	–	18.7	0.0	23	58	NW4	–	–	54.0	0.0	35	11
NW5	–	–	9.3	0.0	22	69	NW5	–	–	40.0	0.0	32	28
NW6	–	–	50.3	0.0	36	14	NW6	–	–	45.3	0.0	36	19
NW7	–	–	63.4	0.0	35	2	NW7	–	–	62.0	0.0	36	2
NW8	–	–	9.5	0.0	22	69	NW8	–	–	51.4	0.0	35	14
WC1	–	–	42.6	0.0	31	26	WC1	–	–	42.6	0.0	31	26
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	-4.00+	–	–	–	–	FLARE 90	–	-4.00+	–	–	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

de maximis, inc.

450 Montbrook Lane
Knoxville, TN 37919
(865) 691-5052
(865) 691-6485 FAX
(865) 691-9835 ACCT. FAX

Via Electronic
and Certified Mail

May 10, 2013

Mr. Dion Novak
Remedial Project Manager
U. S. Environmental protection Agency
77 W. Jackson Blvd.
Mail Stop SR-6J
Chicago, Illinois 60604

Mr. Steve Renninger
On-Scene Coordinator
U. S. Environmental Protection Agency
26 West Martin Luther King Drive, G-41
Cincinnati, Ohio 45268

Re: Monthly Progress Report #219 – April 2013
North Sanitary Landfill - Dayton, Montgomery County, Ohio

Dear Mr. Novak and Mr. Renninger:

In accordance with Section V, Subsection 2.5, of the Administrative Order by Consent for the North Sanitary Landfill, please find enclosed a summary of site-related activities for April 2013.

Should you have any questions or comments, please do not hesitate to contact me at (865) 691-5052.

Sincerely,
de maximis, inc.

Michael H. Samples
Alternate Project Coordinator

MHS:dlb

Attachments

cc: H. Cole (w/ attachment; via U.S. Mail)
S. Glum (w/ attachment; via U.S. Mail)
T. Hut (w/ attachment; via U.S. Mail)
J. Weatherington-Rice (w/ attachment; via U.S. Mail)
N. Wood-Chi (w/ attachment; via U.S. Mail)
VLSG Distribution (w/ attachments; via e-mail)

PAPER

Monthly Progress Report
Report #219 – April 2013
North Sanitary Landfill
Dayton, Ohio

A. Actions Taken Toward Compliance with the Order

- Operation and monitoring of the landfill gas abatement system (LGAS) was continued; and,
- The site fence was inspected during the reporting period and any necessary repairs were addressed.

B/C. Problems Encountered/Actions to Rectify Problems

- None.

D. Changes in Removal Action Activities

- None.

E. Site Data

- Bi-weekly LGAS compliance data summaries for the month of April 2013 are presented in Attachment A of this report.

F. Planned Activities for the Next Reporting Period (May 2013)

- Develop Monthly Progress Report #219 summarizing activities in April 2013;
- Continue LGAS operation and performance monitoring;
- Collect the annual flare inlet gas sample; and,
- Perform the second quarter 2013 combustible gas indicator (CGI) checks.

G. Schedule of Significant Activities and Deliverables (May 2013)

- May 10 - Anticipated submittal of the April 2013 MPR to U.S. EPA;
- May 15 - Collect the flare inlet gas sample; and,
- May 15 - Pending access, perform the second quarter CGI checks.

H. Changes in Personnel During Reporting Period

- None.

I. Significant Correspondence, Telephone Conversations, or Discussions

Communication	Date	Recipient(s)	Subject
dmi transmittal	04/10/13	U.S. EPA	Monthly Progress Report for the Month of March 2013.

ATTACHMENT A

(BI-WEEKLY LGAS SUMMARIES)

R. M. BROYLES COMPANY, L. L. C.

P.O. Box 13154, Dayton, OH 45413 MOB # 937-776-5304 email: rmbcom@woh.rr.com

REPORT COVER PAGE

To: Gary Saylor SCS <gsaylor@scsengineers.com> Pages: 5

From: Mike Broyles <rmbcom@woh.rr.com>

Date: 4/15/2013

Subject: LFG Monitoring Summary - Week of 04/01/13 - 04/07/13

Summary: All CPs remained in compliance this two week period.
There was one (1) flare flame failure due to low methane or other issues.
Flare operating cycles were 270 mins. ON and 1170 mins. OFF.
Bi-Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed April 7, 2013 with temps of 60 to 72°F and mostly cloudy conditions.
Vacuum readings were last taken on February 24, 2013.
Valves were open to Legs 1b, 2, 3A, 3B, 4 and 5; and
Wells open were NW 1-8, WC 1 & 4, SW 1 & 2, EW 1-4, 7, 8, 10, 11 & 12.

Flare Operating Hours:

	AM				PM				
Date	on	off	on	off	on	off	on	off	"ON" Hours
4/1/2013	–	–	5:30	10:00	--	–	–	–	4.5
4/2/2013	–	–	5:30#	–	2:00	6:30	–	–	4.5
4/3/2013	–	–	–	–	2:00	6:30	–	–	4.5
4/4/2013	--	–	–	--	2:00	6:30	–	–	4.5
4/5/2013	–	–	–	–	2:00	6:30	–	–	4.5
4/6/2013	–	–	–	–	2:00	6:30	–	–	4.5
4/7/2013	–	–	–	–	2:00	6:30	–	–	4.5
								Total Hrs. =	31.5

Notes: # = Flare shut down during operation.
* = Flare reset to operate full time with propane.
@ = Flare reset to operate full time with methane.
+ = Other reason
Times represent Flare Clock which is currently about 80 minutes behind EST.
Flow rate was 190 - 220 scfm. Temperature range (middle thermocouple) 1520 - 1570° F.

Daily/Weekly Monitoring Times:

Date	Probes/Wells Monitored	Sampling Period	Readings	Barometric Pressure	Trend
4/1/2013	–	–	–	–	–
4/2/2013	–	–	–	–	–
4/3/2013	–	–	–	–	–
4/4/2013	–	–	–	–	–
4/5/2013	CPs 1-5, TGP/GPs	12:00 - 3:30P	0.0	30.07 - 30.06	S
4/6/2013	–	–	–	–	–
4/7/2013	TGP/GPs, GVs, E&SWs	10:00A - 1:30P	0.0	29.90 - 29.91	S

Notes: CPs = Compliance Probes;
S&EW = Supplemental and Extraction Wells; and
Leg numbers = 1, 1b, 2, 3A, 3B, 4 & 5.
Readings in **BOLD** represent **Compliance Probe (CP)** readings greater than 5.0%
Barometric Pressure represents pressure and range during Sampling Period. Trend: R = rising, F = falling, S = steady

CONFIDENTIALITY NOTE: THIS MESSAGE IS INTENDED ONLY FOR THE INDIVIDUAL/S OR ENTITY/IES TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT/S, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT/S. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY R. M. BROYLES COMPANY, L. L. C. IMMEDIATELY BY TELEPHONE AT (937) 890-6985, AND RETURN THE ORIGINAL MESSAGE TO R. M. BROYLES COMPANY, L. L. C. AT THE ABOVE ADDRESS VIA THE U. S. POSTAL SERVICE.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	1-Apr		2-Apr		3-Apr		4-Apr		5-Apr		6-Apr		7-Apr	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	0.0	18.0	–	–	–	–
CP1-2	–	–	–	–	–	–	–	–	0.0	16.2	–	–	–	–
CP1-3	–	–	–	–	–	–	–	–	0.0	16.1	–	–	–	–
CP1-4	–	–	–	–	–	–	–	–	0.0	16.3	–	–	–	–
CP1-5	–	–	–	–	–	–	–	–	0.0	17.1	–	–	–	–
CP1-7	–	–	–	–	–	–	–	–	0.0	17.9	–	–	–	–
CP1-9	–	–	–	–	–	–	–	–	0.0	18.6	–	–	–	–
CP1-11	–	–	–	–	–	–	–	–	0.0	18.4	–	–	–	–
CP1-13	–	–	–	–	–	–	–	–	0.0	17.2	–	–	–	–
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	0.0	18.3	–	–	–	–
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	0.0	18.6	–	–	–	–
CP1b-2R	–	–	–	–	–	–	–	–	0.0	20.3	–	–	–	–
CP1b-4R	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
CP1b-6R	–	–	–	–	–	–	–	–	0.0	17.8	–	–	–	–
TGP1b-E	–	–	–	–	–	–	–	–	0.0	16.0	–	–	–	–
TGP1b-A	–	–	–	–	–	–	–	–	0.0	18.8	–	–	–	–
TGP1b-F	–	–	–	–	–	–	–	–	0.0	20.2	–	–	–	–
TGP1b-B	–	–	–	–	–	–	–	–	0.0	17.8	–	–	–	–
TGP1b-G	–	–	–	–	–	–	–	–	0.0	17.7	–	–	–	–
TGP1b-C	–	–	–	–	–	–	–	–	0.0	20.4	–	–	–	–
TGP1b-H	–	–	–	–	–	–	–	–	0.0	20.2	–	–	–	–
TGP1b-D	–	–	–	–	–	–	–	–	0.0	20.3	–	–	–	–
GP-03	–	–	–	–	–	–	–	–	0.0	18.4	–	–	–	–
TGP-82	–	–	–	–	–	–	–	–	0.0	18.5	–	–	–	–
GP-04	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
TGP-83	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
CP2-1	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
CP2-2	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
CP2-4R	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
CP2-5R	–	–	–	–	–	–	–	–	0.0	17.0	–	–	–	–
CP-6R	–	–	–	–	–	–	–	–	0.0	19.2	–	–	–	–
CP2-7	–	–	–	–	–	–	–	–	0.0	19.6	–	–	–	–
CP2-9	–	–	–	–	–	–	–	–	0.0	20.4	–	–	–	–
TGP-06	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
TGP-East	–	–	–	–	–	–	–	–	0.0	19.3	–	–	–	–
TGP-Dads	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP3-1RR	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP3-2R	–	–	–	–	–	–	–	–	0.0	19.8	–	–	–	–
CP3-4R	–	–	–	–	–	–	–	–	0.0	20.1	–	–	–	–
CP3-5R	–	–	–	–	–	–	–	–	0.0	20.3	–	–	–	–
CP3-7R	–	–	–	–	–	–	–	–	0.0	20.0	–	–	–	–
CP3-8R	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
CP3-9	–	–	–	–	–	–	–	–	0.0	17.5	–	–	–	–
CP3-10R	–	–	–	–	–	–	–	–	0.0	19.3	–	–	–	–
CP3-12R	–	–	–	–	–	–	–	–	0.0	19.9	–	–	–	–
CP3-13R	–	–	–	–	–	–	–	–	0.0	18.3	–	–	–	–
CP3-14R	–	–	–	–	–	–	–	–	0.0	18.7	–	–	–	–
CP3-15R	–	–	–	–	–	–	–	–	0.0	19.3	–	–	–	–
TGP-89	–	–	–	–	–	–	–	–	0.0	19.4	–	–	–	–
CP4-A	–	–	–	–	–	–	–	–	0.0	18.8	–	–	–	–
CP4-B	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
CP4-C	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
CP4-1	–	–	–	–	–	–	–	–	0.0	17.0	–	–	–	–
CP4-2	–	–	–	–	–	–	–	–	0.0	19.0	–	–	–	–
CP4-3	–	–	–	–	–	–	–	–	0.0	18.3	–	–	–	–
CP4-4	–	–	–	–	–	–	–	–	0.0	19.3	–	–	–	–
CP4-6	–	–	–	–	–	–	–	–	0.0	18.9	–	–	–	–
CP5-1R	–	–	–	–	–	–	–	–	0.0	18.3	–	–	–	–
CP5-3R	–	–	–	–	–	–	–	–	0.0	17.1	–	–	–	–
CP5-4R	–	–	–	–	–	–	–	–	0.0	17.2	–	–	–	–
CP5-6	–	–	–	–	–	–	–	–	0.0	18.6	–	–	–	–
CP5-8	–	–	–	–	–	–	–	–	0.0	16.9	–	–	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;

(2) NR = Value not recorded

(3) NS = Not sampled due to instrument failure or snow cover;

(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume

(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.

(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	1-Apr		2-Apr		3-Apr		4-Apr		5-Apr		6-Apr		7-Apr	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	–	–	–	–	–	–	–	–	–	–	–	–	0.0	15.1
TGP-53	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.2
TGP-57	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.1
TGP-62	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.2
GP-12	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.5
TGP-60	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.3
TGP-65	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.5
TGP-66	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.1
TGP-67	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.6
TGP-68	–	–	–	–	–	–	–	–	–	–	–	–	0.0	16.3
TGP-53	–	–	–	–	–	–	–	–	–	–	–	–	0.0	14.4
TGP-59	–	–	–	–	–	–	–	–	–	–	–	–	0.0	16.9
TGP-58	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.4
GP-14	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.0
TGP-87	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.1
TGP-88	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.1
TGP-69	–	–	–	–	–	–	–	–	0.0	20.5	–	–	–	–
TGP-90	–	–	–	–	–	–	–	–	0.0	19.1	–	–	–	–
GP-17	–	–	–	–	–	–	–	–	0.0	14.7	–	–	–	–
TGP-91	–	–	–	–	–	–	–	–	0.0	18.1	–	–	–	–
GP-18	–	–	–	–	–	–	–	–	0.0	18.8	–	–	–	–
TGP-73	–	–	–	–	–	–	–	–	0.0	19.5	–	–	–	–
TGP-74	–	–	–	–	–	–	–	–	0.0	18.6	–	–	–	–
TGP-84	–	–	–	–	–	–	–	–	0.0	17.3	–	–	–	–
TGP-75	–	–	–	–	–	–	–	–	0.0	13.8	–	–	–	–
TGP-85	–	–	–	–	–	–	–	–	0.0	17.8	–	–	–	–
TGP-72	–	–	–	–	–	–	–	–	0.0	17.5	–	–	–	–
TGP-86	–	–	–	–	–	–	–	–	0.0	16.5	–	–	–	–
TGP-32	–	–	–	–	–	–	–	–	0.0	16.7	–	–	–	–

(1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded.
(3) NS = Not sampled due to instrument failure;
(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume
(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Mar 18 - Mar 24						Week of:	Apr 01 - April 07					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	–	–	–	–	–	–	LEG 1	–	–	–	–	–	–
GV1-1	–	28	5.0	1.5	19	75	GV1-1	–	66	6.5	11.1	6.3	76
GV1-2	–	–	24.6	1.0	28	46	GV1-2	–	–	3.3	13.7	5.5	78
GV1-3	–	–	24.2	0.2	28	48	GV1-3	–	–	4.0	17.2	4.2	75
GV1-4	–	–	28.3	0.0	29	43	GV1-4	–	–	14.3	3.5	22	60
GV1-5	–	–	23.1	0.0	29	48	GV1-5	–	–	19.8	1.2	23	56
GV1-6	–	–	16.5	1.4	24	58	GV1-6	–	–	1.1	17.2	1.7	80
GV1-7	–	–	0.2	17.8	2.4	80	GV1-7	–	–	0.4	19.4	1.0	79
GV1-8	–	–	6.7	0.6	20	73	GV1-8	–	–	7.6	2.6	16	74
GV1-9	–	–	4.9	0.8	20	74	GV1-9	–	–	6.6	0.4	20	73
GV1-10X	–	–	6.8	1.5	20	72	**GV1-10X**	–	–	3.2	6.8	12	78
GV1-11	–	–	11.1	0.2	20	69	GV1-11	–	–	7.4	4.4	15	73
GV1-12	–	–	11.0	1.2	19	69	GV1-12	–	–	4.9	8.4	15	72
GV1-13	–	–	5.7	0.6	19	75	GV1-13	–	–	1.5	1.9	16	81
LEG 1b	–	–	–	–	–	–	LEG 1b	–	–	–	–	–	–
GV1b-1	–	–	0.7	15.8	4.4	79	GV1b-1	–	–	0.3	16.8	2.2	81
GV1b-2	–	–	0.2	19.5	1.2	79	GV1b-2	–	–	1.6	16.6	4.4	77
GV1b-3	–	–	3.3	17.8	4.2	75	GV1b-3	–	–	2.9	14.0	4.7	78
GV1b-4	–	–	3.1	12.2	7.4	77	GV1b-4	–	–	0.3	15.3	5.9	79
GV1b-5	–	50	0.3	17.6	2.7	79	GV1b-5	–	58	1.5	9.1	10	79
LEG 2	–	–	–	–	–	–	LEG 2	–	–	–	–	–	–
GV2-1	–	–	1.0	16.0	5.3	78	GV2-1	–	–	1.6	15.4	4.4	79
GV2-2	–	36	0.3	15.4	2.9	81	GV2-2	–	76	1.2	15.1	7.2	77
GV2-3	–	46	0.7	16.1	6.2	77	GV2-3	–	80	1.0	12.6	9.4	77
GV2-4	–	68	2.9	11.8	8.9	76	GV2-4	–	88	1.8	9.8	11	77
LEG 3	–	–	–	–	–	–	LEG 3	–	–	–	–		–
GV3-1	–	–	55.2	0.2	30	15	GV3-1	–	–	30.9	1.8	29	38
GV3-2	–	–	40.5	1.8	25	33	GV3-2	–	–	23.3	5.5	21	50
GV3-3	–	–	1.0	18.4	3.2	77	GV3-3	–	–	4.0	7.8	10	78
GV3-4	–	46	7.1	6.1	15	72	GV3-4	–	58	4.1	8.9	10	77
GV3-5	–	–	4.9	10.9	7.3	77	GV3-5	–	–	2.3	5.4	5.6	87
GV3-6	–	–	4.6	2.1	13	80	GV3-6	–	–	2.8	7.1	6.2	84
GV3-7	–	–	2.2	1.8	14	82	GV3-7	–	–	1.6	13.1	4.5	81
GV3-8	–	–	0.4	8.8	7.9	83	GV3-8	–	–	3.3	10.4	7.6	79
GV3-9	–	–	6.3	6.1	12	76	GV3-9	–	–	10.8	3.6	12	74
GV3-10 X	–	–	0.2	6.4	11	82	**GV3-10 X**	–	–	1.2	2.5	10	86
GV3-11	–	–	1.1	1.9	14	83	GV3-11	–	–	2.4	4.5	14	79
GV3-12	–	–	8.7	4.2	14	73	GV3-12	–	–	10.4	3.5	16	70
GV3-13	–	–	5.7	2.1	16	76	GV3-13	–	–	11.8	3.2	14	71
GV3-14	–	–	21.8	0.1	21	57	GV3-14	–	–	24.6	1.0	18	56
LEG 3	–	–	–	–	–	–	LEG 3	–	–	–	–	–	–
LEG 4	–	–	–	–	–	–	LEG 4	–	–	–	–	–	–
GV4-C	–	44	0.3	9.0	9.0	82	GV4-C	–	64	1.0	10.4	7.8	81
GV4-B	–	–	0.0	6.0	12	82	GV4-B	–	–	1.0	6.5	10	83
GV4-A	–	–	0.5	7.1	10	82	GV4-A	–	–	0.9	12.1	6.7	80
GV4-1	–	–	8.6	6.2	12	73	GV4-1	–	–	3.2	5.4	11	80
GV4-2	–	–	15.3	11.4	12	61	GV4-2	–	–	5.5	2.3	15	77
GV4-3	–	–	3.5	10.3	9.3	77	GV4-3	–	–	2.7	9.6	10	78
GV4-4 X	–	–	0.0	19.9	0.5	80	**GV4-4 X**	–	–	0.2	18.4	0.6	81
GV4-5	–	–	12.2	6.4	15	66	GV4-5	–	–	14.8	3.3	16	66
GV4-6	–	–	2.8	6.3	12	79	GV4-6	–	–	4.3	11.6	7.7	76
GV4-7	–	–	22.9	3.4	21	53	GV4-7	–	–	25.3	0.4	22	52
LEG 6	–	–	–	–	–	–	LEG 6	–	–	–	–	–	–
GV5-1	–	46	0.0	19.9	0	80	GV5-1	–	76	1.6	12.3	13	73
GV5-2	–	–	0.0	20.0	0.0	80	GV5-2	–	–	1.4	18.0	7.8	73
GV5-3	–	–	0.0	20.1	0.0	80	GV5-3	–	–	2.4	17.2	6.2	74
GV5-4	–	–	0.0	20.0	0.0	80	GV5-4	–	–	1.3	18.4	5.5	75
GV5-5	–	–	0.0	19.9	0.0	80	GV5-5	–	–	1.2	18.1	6.4	74
GV5-6	–	–	0.0	20.1	0.0	80	GV5-6	–	–	4.5	8.5	11	76
GV5-7	–	–	0.0	20.0	0.0	80	GV5-7	–	–	3.9	9.8	11	75
GV5-8	–	–	0.0	16.6	3.6	80	GV5-8	–	–	1.8	11.6	7.7	79
GV5-9	–	–	0.0	19.8	0.6	80	GV5-9	–	–	2.3	12.1	8	78

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Mar 18 - Mar 24						Week of:	Apr 01 - April 07					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	–	–	8.6	4.8	16	71	EW-1	–	–	7.7	2.3	21	69
EW-2	–	–	0.0	15.3	5.5	79	EW-2	–	–	0.2	4.5	19	76
EW-3	–	–	18.5	0.3	20	61	EW-3	–	–	21.0	0.0	24	55
EW-4	–	–	16.8	0.2	21	62	EW-4	–	–	37.9	0.0	29	33
EW-5	–	–	20.2	0.0	19	61	EW-5	–	–	37.5	0.0	30	33
EW-6	–	–	23.2	0.0	25	52	EW-6	–	–	33.0	0.0	31	36
EW-7	–	–	20.4	0.0	22	58	EW-7	–	–	32.1	0.0	28	40
EW-8	–	–	21.4	0.0	25	54	EW-8	–	–	37.9	0.0	28	34
EW-9	–	–	31.2	0.0	28	41	EW-9	–	–	36.6	0.0	30	33
EW-10	–	–	0.7	7.3	7.6	84	EW-10	–	–	2.5	3.5	12	82
EW-11	–	–	0.4	19.2	1.3	79	EW-11	–	–	0.7	12.9	10	76
EW-12	–	–	0.0	20.3	1.1	79	EW-12	–	–	0.0	17.9	2.1	80
SW1	–	–	32.2	0.0	30	38	SW1	–	–	38.1	0.0	30	34
SW2	–	–	31.9	0.0	28	40	SW2	–	–	38.7	0.0	30	33
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	14.6	0.0	23	62	NW1	–	–	15.3	0.3	20	64
NW2	–	–	40.4	0.0	33	27	NW2	–	–	41.4	0.0	33	26
NW3	–	–	39.9	0.0	32	28	NW3	–	–	47.3	0.0	34	19
NW4	–	–	14.3	0.0	21	65	NW4	–	–	23.8	0.0	28	48
NW5	–	–	8.8	0.0	21	70	NW5	–	–	20.4	0.0	28	54
NW6	–	–	50.1	0.0	39	11	NW6	–	–	48.1	0.0	35	17
NW7	–	–	62.6	0.0	37	0	NW7	–	–	59.7	0.0	40	0
NW8	–	–	14.8	0.2	23	62	NW8	–	–	19.7	0.0	23	57
WC1	–	–	42.6	0.0	31	26	WC1	–	–	42.6	0.0	31	26
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	-4.00+	–	–	–	–	FLARE 90	–	-4.00+	–	–	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

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REPORT COVER PAGE

To: Gary Saylor SCS <gsaylor@scsengineers.com> Pages: 5

From: Mike Broyles <rmbcom@woh.rr.com>

Date: 4/30/2013

Subject: LFG Monitoring Summary - Week of 04/15/13 - 04/21/13

Summary: All CPs remained in compliance this two week period.
There were four (4) flare flame failures due to low methane or other issues.
Flare operating cycles were 240 to mins. ON and 1200 mins. OFF.
Bi-Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed April 21, 2013 with temps of 38 to 49°F and mostly cloudy conditions.
Vacuum readings were last taken on April 21, 2013.
Valves were open to Legs 1b, 2, 3A, 3B, 4 and 5; and
Wells open were NW 1-8, WC 1 & 4, SW 1 & 2, EW 1-4, 7, 8, 10, 11 & 12.

Flare Operating Hours:

	AM				PM				
Date	on	off	on	off	on	off	on	off	"ON" Hours
4/15/2013	–	--	5:00#	–	–	–	–	–	0.0
4/16/2013	5:00#	–	11:30	–	–	2:00#	–	–	2.5
4/17/2013	–	–	5:00	9:00	–	–	–	–	4.0
4/18/2013	–	--	5:00	9:00	–	–	–	–	4.0
4/19/2013	–	–	5:00	9:00	–	–	–	–	4.0
4/20/2013	–	–	5:00#	–	4:00	8:00	–	–	4.0
4/21/2013	–	--	6:30	10:30	–	–	–	–	4.0
								Total Hrs. =	22.5

Notes: # = Flare shut down during operation.
* = Flare reset to operate full time with propane.
@ = Flare reset to operate full time with methane.
+ = Other reason
Times represent Flare Clock which is currently about 80 minutes behind EST.
Flow rate was 190 - 220 scfm. Temperature range (middle thermocouple) 1520 - 1570° F.

Daily/Weekly Monitoring Times:

Date	Probes/Wells Monitored	Sampling Period	Readings	Barometric Pressure	Trend
4/15/2013	–	–	–	–	–
4/16/2013	–	–	–	–	–
4/17/2013	–	–	–	–	--
4/18/2013	–	–	–	–	–
4/19/2013	–	–	–	–	–
4/20/2013	CPs 1b-3, TGP/GPs	9:00A - 12:00P	0.0	30.16 - 30.25	R
4/21/2013	CPs 1,4 &5, TGP/GPs, GVs, E&SWs	9:00A - 1:00P	0.0	30.57 - 30.51	F

Notes: CPs = Compliance Probes;
S&EW = Supplemental and Extraction Wells; and
Leg numbers = 1, 1b, 2, 3A, 3B, 4 & 5.
Readings in **BOLD** represent **Compliance Probe (CP)** readings greater than 5.0%
Barometric Pressure represents pressure and range during Sampling Period. Trend: R = rising, F = falling, S = steady

CONFIDENTIALITY NOTE: THIS MESSAGE IS INTENDED ONLY FOR THE INDIVIDUAL/S OR ENTITY/IES TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT/S, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT/S. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY R. M. BROYLES COMPANY, L. L. C. IMMEDIATELY BY TELEPHONE AT (937) 890-6985, AND RETURN THE ORIGINAL MESSAGE TO R. M. BROYLES COMPANY, L. L. C. AT THE ABOVE ADDRESS VIA THE U. S. POSTAL SERVICE.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	15-Apr		16-Apr		17-Apr		18-Apr		19-Apr		20-Apr		21-Apr	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.0
CP1-2	–	–	–	–	–	–	–	–	–	–	–	–	0.0	16.2
CP1-3	–	–	–	–	–	–	–	–	–	–	–	–	0.0	16.1
CP1-4	–	–	–	–	–	–	–	–	–	–	–	–	0.0	16.3
CP1-5	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.1
CP1-7	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.9
CP1-9	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.6
CP1-11	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.4
CP1-13	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.2
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.3
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	–	–	0.0	17.8	–	–
CP1b-2R	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
CP1b-4R	–	–	–	–	–	–	–	–	–	–	0.0	18.0	–	–
CP1b-6R	–	–	–	–	–	–	–	–	–	–	0.0	15.3	–	–
TGP1b-E	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
TGP1b-A	–	–	–	–	–	–	–	–	–	–	0.0	15.6	–	–
TGP1b-F	–	–	–	–	–	–	–	–	–	–	0.0	19.9	–	–
TGP1b-B	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
TGP1b-G	–	–	–	–	–	–	–	–	–	–	0.0	19.7	–	–
TGP1b-C	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
TGP1b-H	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
TGP1b-D	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
GP-03	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
TGP-82	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
GP-04	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
TGP-83	–	–	–	–	–	–	–	–	–	–	0.0	18.8	–	–
CP2-1	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
CP2-2	–	–	–	–	–	–	–	–	–	–	0.0	19.9	–	–
CP2-4R	–	–	–	–	–	–	–	–	–	–	0.0	14.4	–	–
CP2-5R	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
CP-6R	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
CP2-7	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
CP2-9	–	–	–	–	–	–	–	–	–	–	0.0	19.3	–	–
TGP-06	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
TGP-East	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
TGP-Dads	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
CP3-1RR	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
CP3-2R	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
CP3-4R	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
CP3-5R	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
CP3-7R	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
CP3-8R	–	–	–	–	–	–	–	–	–	–	0.0	20.7	–	–
CP3-9	–	–	–	–	–	–	–	–	–	–	0.0	14.4	–	–
CP3-10R	–	–	–	–	–	–	–	–	–	–	0.0	20.4	–	–
CP3-12R	–	–	–	–	–	–	–	–	–	–	0.0	17.7	–	–
CP3-13R	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
CP3-14R	–	–	–	–	–	–	–	–	–	–	0.0	20.8	–	–
CP3-15R	–	–	–	–	–	–	–	–	–	–	0.0	20.2	–	–
TGP-89	–	–	–	–	–	–	–	–	–	–	0.0	19.5	–	–
CP4-A	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.7
CP4-B	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.1
CP4-C	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.4
CP4-1	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.8
CP4-2	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.7
CP4-3	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.5
CP4-4	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.0
CP4-6	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.8
CP5-1R	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.3
CP5-3R	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.8
CP5-4R	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.3
CP5-6	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.9
CP5-8	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.5

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;

(2) NR = Value not recorded.

(3) NS = Not sampled due to instrument failure or snow cover;

(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume

(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.

(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST COMPLIANCE PROBE REPORT
(% Methane and Oxygen by Volume)

	15-Apr		16-Apr		17-Apr		18-Apr		19-Apr		20-Apr		21-Apr	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	–	–	–	–	–	–	–	–	–	–	–	–	0.0	13.9
TGP-63	–	–	–	–	–	–	–	–	–	–	–	–	0.0	17.4
TGP-57	–	–	–	–	–	–	–	–	–	–	–	–	0.0	20.1
TGP-62	–	–	–	–	–	–	–	–	–	–	–	–	0.0	14.7
GP-12	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.3
TGP-60	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.0
TGP-65	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.6
TGP-66	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.3
TGP-67	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.4
TGP-68	–	–	–	–	–	–	–	–	–	–	–	–	0.0	15.6
TGP-53	–	–	–	–	–	–	–	–	–	–	–	–	0.0	13.1
TGP-59	–	–	–	–	–	–	–	–	–	–	–	–	0.0	16.8
TGP-58	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.2
GP-14	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.0
TGP-87	–	–	–	–	–	–	–	–	–	–	–	–	0.0	18.5
TGP-88	–	–	–	–	–	–	–	–	–	–	–	–	0.0	19.6
TGP-69	–	–	–	–	–	–	–	–	–	–	0.0	20.7	–	–
TGP-90	–	–	–	–	–	–	–	–	–	–	0.0	20.5	–	–
GP-17	–	–	–	–	–	–	–	–	–	–	0.0	15.5	–	–
TGP-91	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
GP-18	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP-73	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
TGP-74	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
TGP-84	–	–	–	–	–	–	–	–	–	–	0.0	19.2	–	–
TGP-75	–	–	–	–	–	–	–	–	–	–	0.0	14.2	–	–
TGP-85	–	–	–	–	–	–	–	–	–	–	0.0	18.6	–	–
TGP-72	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
TGP-86	–	–	–	–	–	–	–	–	–	–	0.0	16.8	–	–
TGP-32	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–

(1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded.
(3) NS = Not sampled due to instrument failure;
(4) Values in **Bold** Face Type exceed applicable concentration ceilings of 5% methane by volume
(5) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(6) Per the request of OEPA, Oxygen level readings were added to the Compliance Probe monitoring report table beginning March 5, 2009.

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 01 - April 07						Week of:	Apr 15 - April 21					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	–	–	–	–	–	–	**LEG 1**	-2.90	–	–	–	–	–
GV1-1	–	66	6.5	11.1	6.3	76	GV1-1	–	66	2.1	1.4	18	79
GV1-2	–	–	3.3	13.7	5.5	78	GV1-2	–	–	11.6	7.2	12	69
GV1-3	–	–	4.0	17.2	4.2	75	GV1-3	–	–	6.2	12.0	9.2	73
GV1-4	–	–	14.3	3.5	22	60	GV1-4	–	–	22.4	6.2	22	49
GV1-5	–	–	19.8	1.2	23	56	GV1-5	–	–	2.8	5.2	13	79
GV1-6	–	–	1.1	17.2	1.7	80	GV1-6	–	–	1.5	8.8	10	80
GV1-7	–	–	0.4	19.4	1.0	79	GV1-7	–	–	4.3	4.8	20	71
GV1-8	–	–	7.6	2.6	16	74	GV1-8	–	–	0.6	2.1	19	78
GV1-9	–	–	6.6	0.4	20	73	GV1-9	–	–	0.6	2.9	18	79
GV1-10X	–	–	3.2	6.8	12	78	**GV1-10X**	–	–	11.7	0.5	20	68
GV1-11	–	–	7.4	4.4	15	73	GV1-11	–	–	7.3	1.9	18	73
GV1-12	–	–	4.9	8.4	15	72	GV1-12	–	–	4.1	1.8	18	76
GV1-13	–	–	1.5	1.9	16	81	GV1-13	–	–	2.4	0.3	18	79
LEG 1b	–	–	–	–	–	–	**LEG 1b**	–	–	–	–	–	–
GV1b-1	–	–	0.3	16.6	2.2	81	GV1b-1	–	–	0.8	14.0	4.0	81
GV1b-2	–	–	1.6	16.6	4.4	77	GV1b-2	–	–	0.1	17.9	0.3	82
GV1b-3	–	–	2.9	14.0	4.7	78	GV1b-3	–	–	0.1	19.5	0.4	80
GV1b-4	–	–	0.3	15.3	5.9	79	GV1b-4	–	–	0.5	14.8	6.3	78
GV1b-5	–	58	1.5	9.1	10	79	GV1b-5	–	58	0.4	12.8	2	85
LEG 2	–	–	–	–	–	–	**LEG 2**	-0.21	–	–	–	–	–
GV2-1	–	–	1.6	15.4	4.4	79	GV2-1	–	–	1.5	15.5	5.8	77
GV2-2	–	76	1.2	15.1	7.2	77	GV2-2	–	76	0.3	15.3	5.8	79
GV2-3	–	80	1.0	12.6	9.4	77	GV2-3	–	80	0.3	14.8	7.9	77
GV2-4	–	88	1.8	9.8	11	77	GV2-4	–	88	0.2	12.0	8.3	79
LEG 3	–	–	–	–	–	–	**LEG 3**	-0.24	–	–	–	–	–
GV3-1	–	–	30.9	1.8	29	38	GV3-1	–	–	19.9	1.2	20	59
GV3-2	–	–	23.3	5.5	21	50	GV3-2	–	–	38.8	1.8	24	35
GV3-3	–	–	4.0	7.6	10	78	GV3-3	–	–	0.9	14.9	4.5	80
GV3-4	–	58	4.1	8.9	10	77	GV3-4	–	58	2.2	9.3	12	77
GV3-5	–	–	2.3	5.4	5.6	87	GV3-5	–	–	2.9	6.0	11	80
GV3-6	–	–	2.8	7.1	6.2	84	GV3-6	–	–	3.0	2.8	14	80
GV3-7	–	–	1.6	13.1	4.5	81	GV3-7	–	–	0.5	3.8	11	85
GV3-8	–	–	3.3	10.4	7.6	79	GV3-8	–	–	0.3	6.0	10	84
GV3-9	–	–	10.8	3.6	12	74	GV3-9	–	–	4.9	5.4	12	78
GV3-10 X	–	–	1.2	2.5	10	86	**GV3-10 X**	–	–	0.3	4.1	12	84
GV3-11	–	–	2.4	4.5	14	79	GV3-11	–	–	0.9	1.7	15	82
GV3-12	–	–	10.4	3.5	16	70	GV3-12	–	–	4.2	3.2	14	79
GV3-13	–	–	11.6	3.2	14	71	GV3-13	–	–	2.3	2.0	16	80
GV3-14	–	–	24.6	1.0	18	56	GV3-14	–	–	17.9	0.2	20	62
LEG 3	–	–	–	–	–	–	**LEG 3**	–	–	–	–	–	–
LEG 4	–	–	–	–	–	–	**LEG 4**	-0.47	–	–	–	–	–
GV4-C	–	64	1.0	10.4	7.8	81	GV4-C	–	64	0.8	6.3	10	83
GV4-B	–	–	1.0	6.5	10	83	GV4-B	–	–	0.2	2.1	14	84
GV4-A	–	–	0.9	12.1	6.7	80	GV4-A	–	–	0.8	7.8	4.8	87
GV4-1	–	–	3.2	5.4	11	80	GV4-1	–	–	1.5	15.5	2.9	80
GV4-2	–	–	5.5	2.3	15	77	GV4-2	–	–	9.4	10.0	12	69
GV4-3	–	–	2.7	9.6	10	78	GV4-3	–	–	2.8	9.2	10	78
GV4-4 X	–	–	0.2	18.4	0.6	81	**GV4-4 X**	–	–	0.1	19.8	0.2	80
GV4-5	–	–	14.8	3.3	16	66	GV4-5	–	–	7.4	6.9	11	73
GV4-6	–	–	4.3	11.6	7.7	76	GV4-6	–	–	3.9	5.4	13	78
GV4-7	–	–	25.3	0.4	22	52	GV4-7	–	–	17.9	1.2	21	60
LEG 5	–	–	–	–	–	–	**LEG 5**	-0.55	–	–	–	–	–
GV5-1	–	76	1.6	12.3	13	73	GV5-1	–	76	0.1	20.0	0.2	80
GV5-2	–	–	1.4	18.0	7.8	73	GV5-2	–	–	0.1	19.7	1.2	79
GV5-3	–	–	2.4	17.2	6.2	74	GV5-3	–	–	0.1	20.0	0.5	79
GV5-4	–	–	1.3	18.4	5.5	75	GV5-4	–	–	14.7	2.6	12	71
GV5-5	–	–	1.2	18.1	6.4	74	GV5-5	–	–	3.2	13.2	8.4	75
GV5-6	–	–	4.5	8.5	11	76	GV5-6	–	–	2.4	16.6	2.4	79
GV5-7	–	–	3.9	9.8	11	75	GV5-7	–	–	2.5	16.7	2.3	79
GV5-8	–	–	1.8	11.6	7.7	79	GV5-8	–	–	0.9	13.5	6.4	79
GV5-9	–	–	2.3	12.1	8	78	GV5-9	–	–	0.1	13.1	5.4	81

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed, and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

VALLEYCREST GAS VENT AND WELL REPORT
(% Gas by Volume)

Week of:	Apr 01 - April 07						Week of:	Apr 15 - April 21					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	–	–	7.7	2.3	21	69	EW-1	-1.02	–	7.4	9.1	17	67
EW-2	–	–	0.2	4.5	19	76	EW-2	-0.49	–	0.0	14.6	6.3	79
EW-3	–	–	21.0	0.0	24	55	EW-3	-0.92	–	17.5	3.0	19	61
EW-4	–	–	37.9	0.0	29	33	EW-4	–	–	35.0	0.0	28	37
EW-5	–	–	37.5	0.0	30	33	EW-5	–	–	18.6	0.8	22	59
EW-6	–	–	33.0	0.0	31	36	EW-6	–	–	20.9	0.0	23	56
EW-7	–	–	32.1	0.0	28	40	EW-7	–	–	21.1	0.0	24	55
EW-8	–	–	37.9	0.0	28	34	EW-8	–	–	32.4	0.0	28	40
EW-9	–	–	38.6	0.0	30	33	EW-9	–	–	33.0	0.0	27	40
EW-10	–	–	2.5	3.5	12	82	EW-10	-0.30	–	0.8	5.5	9.2	85
EW-11	–	–	0.7	12.9	10	76	EW-11	-1.11	–	0.4	18.7	1.6	79
EW-12	–	–	0.0	17.9	2.1	80	EW-12	-0.74	–	7.7	5.6	17.0	70
SW1	–	–	36.1	0.0	30	34	SW1	–	–	28.3	0.4	28	43
SW2	–	–	36.7	0.0	30	33	SW2	–	–	30.2	0.0	29	41
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	15.3	0.3	20	64	NW1	–	–	10.2	1.6	23	65
NW2	–	–	41.4	0.0	33	26	NW2	–	–	39.5	0.0	32	29
NW3	–	–	47.3	0.0	34	19	NW3	–	–	41.3	0.0	32	27
NW4	–	–	23.8	0.0	28	48	NW4	–	–	14.7	0.0	21	64
NW5	–	–	20.4	0.0	26	54	NW5	–	–	11.4	0.0	22	67
NW6	–	–	48.1	0.0	35	17	NW6	–	–	44.8	0.0	36	19
NW7	–	–	59.7	0.0	40	0	NW7	–	–	65.4	0.0	35	0
NW8	–	–	19.7	0.0	23	57	NW8	–	–	12.9	0.0	22	65
WC1	–	–	42.6	0.0	31	26	WC1	–	–	42.6	0.0	31	26
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	-4.00+	–	–	–	–	FLARE 90	–	-4.00+	–	–	–	–

Notes: (1) Underline reading assumed to be aberrant based on historical behavior of the monitoring location;
(2) NR = Value not recorded;
(3) NS = Not sampled due to instrument failure;
(4) Sampling instrument used is a calibrated CES Landtec GEM 2000 or equivalent multi-gas meter.
(5) Temperature readings recorded from well head thermometers;
(6) NAM = Not Accessible for Monitoring;
(7) Wellheads in BOLD with X have been disconnected or valve closed; and
(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide)