US EPA RECORDS CENTER REGION 5
486141

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

September 10, 2014

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 #235 – August 2014
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 August 2014.

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/o attachment; via U.S. Mail)
S. Glum (w/o attachment; via U.S. Mail)
T. Hut (w/o attachment; via U.S. Mail)
J. Weatherington-Rice (w/o attachment; via U.S. Mail)
N. Wood-Chi (w/o attachment; via U.S. Mail)
Group Distribution (w/o attachments; via e-mail)

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Monthly Progress Report
Report #235 – August 2014
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 third quarter combustible gas indicator checks were performed on August 13, 2014. The unit located at 404 Valleycrest Drive was not checked due to the property owner not being available at the pre-arranged time. Upon contact from the field the property owner agreed to have the unit checked during the next event. Additionally, the unit located at 2115 Valley Street was not accessible. Two separate attempts were made by visiting the property, but no one was available to allow access. The unit will be checked during the next event. All other units were checked, calibrated if necessary, and no methane was detected; 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 August 2014 are presented in Attachment A of this report.

F. Planned Activities for the Next Reporting Period (September 2014)

- Continue LGAS operation and performance monitoring.

G. Schedule of Significant Activities and Deliverables (September 2014)

- September 10 - Anticipated submittal of the August 2014 MPR to U.S. EPA.

H. Changes in Personnel during Reporting Period

- None.

I. Significant Correspondence, Telephone Conversations, or Discussions

Communication	Date	Recipient(s)	Subject
dmi transmittal	08/08/14	U.S. EPA	Monthly Progress Report for the Month of July 2014.

ATTACHMENT A

(BI-WEEKLY LGAS SUMMARIES

PAPER

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: 8/15/2014

Subject: LFG Monitoring Summary - Week of 08/04/14 - 08/10/14

Summary: All CPs remained in compliance this two week period.
There was no (0) flare flame failures due to low methane or other issues.
Flare operating cycles were 210 to 240 mins. ON and 1200 to 1230 mins. OFF.
Bi-Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed August 10, 2014 with temps of 66 to 68°F and mostly cloudy conditions.
Vacuum readings last taken on August 10, 2014.
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
8/4/2014	--	--	11:30	--	--	3:30	--	--	4.0
8/5/2014	--	--	11:30	--	--	3:30	--	--	4.0
8/6/2014	--	--	--	--	12:00	3:30	--	--	3.5
8/7/2014	--	--	--	--	12:00	3:30	--	--	3.5
8/8/2014	--	--	--	--	12:00	3:30	--	--	3.5
8/9/2014	--	--	--	--	12:00	3:30	--	--	3.5
8/10/2014	--	--	--	--	10:30	2:00	--	--	3.5
								Total Hrs. =	25.5

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 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
8/4/2014	--	--	--	--	--
8/5/2014	--	--	--	--	--
8/6/2014	--	--	--	--	--
8/7/2014	--	--	--	--	--
8/8/2014	--	--	--	--	--
8/9/2014	CPs, TGP/GPs	1:30 - 5:30P	0.0	30.06 - 30.02	F
8/10/2014	TGP/GPs, GVs/S&Ews	10:30A - 2:30P	0.0	30.04 - 30.01	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) 890-8985, 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)

	4-Aug		5-Aug		6-Aug		7-Aug		8-Aug		9-Aug		10-Aug	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	--	--	--	--	--	--	--	--	--	--	0.0	19.8	--	--
CP1-2	--	--	--	--	--	--	--	--	--	--	0.0	18.9	--	--
CP1-3	--	--	--	--	--	--	--	--	--	--	0.0	17.9	--	--
CP1-4	--	--	--	--	--	--	--	--	--	--	0.0	17.1	--	--
CP1-5	--	--	--	--	--	--	--	--	--	--	0.0	17.1	--	--
CP1-7	--	--	--	--	--	--	--	--	--	--	0.0	18.2	--	--
CP1-9	--	--	--	--	--	--	--	--	--	--	0.0	18.9	--	--
CP1-11	--	--	--	--	--	--	--	--	--	--	0.0	15.9	--	--
CP1-13	--	--	--	--	--	--	--	--	--	--	0.0	14.5	--	--
GP-01 (for CP1-14)	--	--	--	--	--	--	--	--	--	--	0.0	18.7	--	--
GP-02 (for CP1b-1R)	--	--	--	--	--	--	--	--	--	--	0.0	17.9	--	--
CP1b-2R	--	--	--	--	--	--	--	--	--	--	0.0	20.0	--	--
CP1b-4R	--	--	--	--	--	--	--	--	--	--	0.0	20.3	--	--
CP1b-6R	--	--	--	--	--	--	--	--	--	--	0.0	20.5	--	--
TGP1b-E	--	--	--	--	--	--	--	--	--	--	0.0	20.9	--	--
TGP1b-A	--	--	--	--	--	--	--	--	--	--	0.0	20.8	--	--
TGP1b-F	--	--	--	--	--	--	--	--	--	--	0.0	20.8	--	--
TGP1b-B	--	--	--	--	--	--	--	--	--	--	0.0	20.4	--	--
TGP1b-G	--	--	--	--	--	--	--	--	--	--	0.0	20.0	--	--
TGP1b-C	--	--	--	--	--	--	--	--	--	--	0.0	20.4	--	--
TGP1b-H	--	--	--	--	--	--	--	--	--	--	0.0	20.7	--	--
TGP1b-D	--	--	--	--	--	--	--	--	--	--	0.0	20.2	--	--
GP-03	--	--	--	--	--	--	--	--	--	--	0.0	19.0	--	--
TGP-82	--	--	--	--	--	--	--	--	--	--	0.0	17.1	--	--
GP-04	--	--	--	--	--	--	--	--	--	--	0.0	19.3	--	--
TGP-83	--	--	--	--	--	--	--	--	--	--	0.0	19.0	--	--
CP2-1	--	--	--	--	--	--	--	--	--	--	0.0	19.1	--	--
CP2-2	--	--	--	--	--	--	--	--	--	--	0.0	19.0	--	--
CP2-4R	--	--	--	--	--	--	--	--	--	--	0.0	20.4	--	--
CP2-5R	--	--	--	--	--	--	--	--	--	--	0.0	20.5	--	--
CP-6R	--	--	--	--	--	--	--	--	--	--	0.0	20.5	--	--
CP2-7	--	--	--	--	--	--	--	--	--	--	0.0	20.4	--	--
CP2-9	--	--	--	--	--	--	--	--	--	--	0.0	19.3	--	--
TGP-06	--	--	--	--	--	--	--	--	--	--	0.0	15.6	--	--
TGP-East	--	--	--	--	--	--	--	--	--	--	0.0	14.5	--	--
TGP-Dads	--	--	--	--	--	--	--	--	--	--	0.0	20.5	--	--
CP3-1RR	--	--	--	--	--	--	--	--	--	--	0.0	14.4	--	--
CP3-2R	--	--	--	--	--	--	--	--	--	--	0.0	12.4	--	--
CP3-4R	--	--	--	--	--	--	--	--	--	--	0.0	20.2	--	--
CP3-5R	--	--	--	--	--	--	--	--	--	--	0.0	20.5	--	--
CP3-7R	--	--	--	--	--	--	--	--	--	--	0.0	19.6	--	--
CP3-8R	--	--	--	--	--	--	--	--	--	--	0.0	18.6	--	--
CP3-9	--	--	--	--	--	--	--	--	--	--	0.0	20.8	--	--
CP3-10R	--	--	--	--	--	--	--	--	--	--	0.0	16.9	--	--
CP3-12R	--	--	--	--	--	--	--	--	--	--	0.0	19.9	--	--
CP3-13R	--	--	--	--	--	--	--	--	--	--	0.0	20.8	--	--
CP3-14R	--	--	--	--	--	--	--	--	--	--	0.0	20.1	--	--
CP3-15R	--	--	--	--	--	--	--	--	--	--	0.0	20.7	--	--
TGP-89	--	--	--	--	--	--	--	--	--	--	0.0	19.3	--	--
CP4-A	--	--	--	--	--	--	--	--	--	--	0.0	19.1	--	--
CP4-B	--	--	--	--	--	--	--	--	--	--	0.0	18.3	--	--
CP4-C	--	--	--	--	--	--	--	--	--	--	0.0	16.9	--	--
CP4-1	--	--	--	--	--	--	--	--	--	--	0.6	5.6	--	--
CP4-2	--	--	--	--	--	--	--	--	--	--	0.0	18.6	--	--
CP4-3	--	--	--	--	--	--	--	--	--	--	0.0	20.2	--	--
CP4-4	--	--	--	--	--	--	--	--	--	--	0.0	20.4	--	--
CP4-6	--	--	--	--	--	--	--	--	--	--	0.0	19.7	--	--
CP5-1R	--	--	--	--	--	--	--	--	--	--	0.0	18.8	--	--
CP5-3R	--	--	--	--	--	--	--	--	--	--	0.0	16.9	--	--
CP5-4R	--	--	--	--	--	--	--	--	--	--	0.0	16.3	--	--
CP5-6	--	--	--	--	--	--	--	--	--	--	0.0	17.1	--	--
CP5-8	--	--	--	--	--	--	--	--	--	--	0.0	15.9	--	--

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)

	4-Aug		5-Aug		6-Aug		7-Aug		8-Aug		9-Aug		10-Aug	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	--	--	--	--	--	--	--	--	--	--	--	--	0.0	8.2
TGP-63	--	--	--	--	--	--	--	--	--	--	--	--	0.0	20.0
TGP-57	--	--	--	--	--	--	--	--	--	--	--	--	0.0	20.3
TGP-62	--	--	--	--	--	--	--	--	--	--	--	--	0.0	17.0
GP-12	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.5
TGP-60	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.7
TGP-65	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.3
TGP-66	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.2
TGP-67	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.0
TGP-68	--	--	--	--	--	--	--	--	--	--	--	--	0.0	16.4
TGP-53	--	--	--	--	--	--	--	--	--	--	--	--	0.0	14.1
TGP-59	--	--	--	--	--	--	--	--	--	--	--	--	0.0	17.8
TGP-58	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.5
GP-14	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.7
TGP-87	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.4
TGP-88	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.6
TGP-69	--	--	--	--	--	--	--	--	--	--	0.0	20.2	--	--
TGP-90	--	--	--	--	--	--	--	--	--	--	0.0	18.5	--	--
GP-17	--	--	--	--	--	--	--	--	--	--	0.0	14.6	--	--
TGP-91	--	--	--	--	--	--	--	--	--	--	0.0	17.4	--	--
GP-18	--	--	--	--	--	--	--	--	--	--	0.0	17.4	--	--
TGP-73	--	--	--	--	--	--	--	--	--	--	0.0	14.8	--	--
TGP-74	--	--	--	--	--	--	--	--	--	--	0.0	18.3	--	--
TGP-84	--	--	--	--	--	--	--	--	--	--	0.0	17.7	--	--
TGP-75	--	--	--	--	--	--	--	--	--	--	0.0	19.0	--	--
TGP-85	--	--	--	--	--	--	--	--	--	--	0.0	17.5	--	--
TGP-72	--	--	--	--	--	--	--	--	--	--	0.0	17.1	--	--
TGP-86	--	--	--	--	--	--	--	--	--	--	0.0	17.4	--	--
TGP-32	--	--	--	--	--	--	--	--	--	--	0.0	19.7	--	--

(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:	Jul 21 - Jul 27						Week of:	Aug 04- Aug 10					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	-1.21	–	–	–	–	–	LEG 1	-7.12	–	–	–	–	–
GV1-1	–	–	9.0	1.2	22	68	GV1-1	–	–	4.6	2.2	22	71
GV1-2	–	68	26.1	4.2	23	47	GV1-2	–	74	4.5	18.3	4.0	73
GV1-3	–	–	27.8	0.7	29	43	GV1-3	–	–	24.1	0.2	29	47
GV1-4	–	–	30.6	0.2	28	41	GV1-4	–	–	23.4	1.1	27	49
GV1-5	–	–	20.9	0.0	27	52	GV1-5	–	–	15.5	0.0	25	60
GV1-6	–	–	23.0	0.0	27	50	GV1-6	–	–	14.6	0.7	25	60
GV1-7	–	–	1.3	15.1	4.6	79	GV1-7	–	–	0.1	19.7	1.1	79
GV1-8	–	–	7.2	3.0	20	70	GV1-8	–	–	6.0	1.6	22	70
GV1-9	–	–	10.2	2.9	20	67	GV1-9	–	–	5.4	1.9	21	72
GV1-10X	–	–	13.3	0.0	25	62	**GV1-10X**	–	–	9.7	6.1	17	67
GV1-11	–	–	2.2	13.6	5.5	79	GV1-11	–	–	0.4	19.9	1.2	79
GV1-12	–	–	15.7	1.9	24	58	GV1-12	–	–	15.9	1.0	24	59
GV1-13	–	–	8.4	0.7	21	70	GV1-13	–	–	5.9	0.3	21	73
LEG 1b	-0.87	–	–	–	–	–	LEG 1b	-4.92	–	–	–	–	–
GV1b-1	–	–	0.5	11.2	9.4	79	GV1b-1	–	–	0.7	16.0	6.1	77
GV1b-2	–	–	0.1	20.3	0.3	79	GV1b-2	–	–	0.0	20.9	0.5	79
GV1b-3	–	–	0.2	16.5	4.3	79	GV1b-3	–	–	8.0	1.2	10	81
GV1b-4	–	–	0.3	11.8	9.2	79	GV1b-4	–	–	0.4	16.0	5.7	78
GV1b-5	–	62	0.2	20.2	0.4	79	GV1b-5	–	70	0.1	20.0	1.4	79
LEG 2	-0.25	–	–	–	–	–	LEG 2	-0.98	–	–	–	–	–
GV2-1	–	–	2.5	12.4	10	76	GV2-1	–	–	0.8	12.7	2.0	85
GV2-2	–	80	0.4	9.5	11	79	GV2-2	–	80	2.1	12.8	8.1	77
GV2-3	–	80	8.1	2.6	18	71	GV2-3	–	80	1.3	6.7	12	80
GV2-4	–	82	8.0	2.9	18	71	GV2-4	–	82	1.5	7.0	13	79
LEG 3	-0.24	–	–	–	–	–	LEG 3	-0.31	–	–	–	–	–
GV3-1	–	–	52.8	0.0	31	16	GV3-1	–	–	60.2	0.0	31	8.8
GV3-2	–	–	38.2	1.6	26	34	GV3-2	–	–	39.1	2.0	25	34
GV3-3	–	–	4.0	8.6	14	73	GV3-3	–	–	0.2	14.7	6.3	79
GV3-4	–	70	18.2	0.0	21	61	GV3-4	–	68	8.6	2.4	17	72
GV3-5	–	–	2.2	7.1	12	79	GV3-5	–	–	4.0	7.7	13	75
GV3-6	–	–	3.8	2.3	15	79	GV3-6	–	–	3.1	0.0	16	81
GV3-7	–	–	0.0	13.1	8.5	78	GV3-7	–	–	0.8	1.6	16	82
GV3-8	–	–	0.1	10.1	10	80	GV3-8	–	–	1.9	0.6	14	84
GV3-9	–	–	0.6	9.4	10	80	GV3-9	–	–	2.8	1.1	3.8	92
GV3-10 X	–	–	0.8	7.0	12	81	**GV3-10 X**	–	–	0.5	3.8	14	82
GV3-11	–	–	0.2	5.7	14	80	GV3-11	–	–	1.9	1.9	17	79
GV3-12	–	–	1.5	1.8	19	78	GV3-12	–	–	1.7	6.1	16	76
GV3-13	–	–	5.9	5.9	14	74	GV3-13	–	–	12.1	5.5	16	66
GV3-14	–	–	20.7	2.5	19	58	GV3-14	–	–	22.6	0.6	20	57
LEG 3	–	–	–	–	–	–	LEG 3	–	–	–	–	–	–
LEG 4	-0.16	–	–	–	–	–	LEG 4	-0.10	–	–	–	–	–
GV4-C	–	70	3.0	5.1	18	74	GV4-C	–	70	1.7	1.7	17	80
GV4-B	–	–	2.0	3.7	14	80	GV4-B	–	–	0.9	2.5	16	81
GV4-A	–	–	1.4	18.2	24	56	GV4-A	–	–	1.0	17.5	2.9	79
GV4-1	–	–	1.6	18.3	2.9	77	GV4-1	–	–	4.9	6.0	11	78
GV4-2	–	–	3.1	17.8	14.0	65	GV4-2	–	–	1.3	15.4	5.3	78
GV4-3	–	–	13.0	0.0	22	65	GV4-3	–	–	5.9	5.4	16	73
GV4-4 X	–	–	0.1	19.9	1.1	79	**GV4-4 X**	–	–	0.1	19.8	0.4	80
GV4-5	–	–	8.8	8.3	26	57	GV4-5	–	–	8.9	8.3	13	70
GV4-6	–	–	11.7	0.0	20	68	GV4-6	–	–	9.2	1.8	18	71
GV4-7	–	–	37.9	0.0	31	31	GV4-7	–	–	29.1	0.0	28	43
LEG 5	-0.11	–	–	–	–	–	LEG 5	-0.10	–	–	–	–	–
GV5-1	–	88	47.6	0.0	32	20	GV5-1	–	90	33.1	1.6	29	36
GV5-2	–	–	44.8	0.0	30	25	GV5-2	–	–	41.0	0.0	30	29
GV5-3	–	–	28.1	0.0	28	44	GV5-3	–	–	26.7	0.0	29	44
GV5-4	–	–	5.3	7.1	26	62	GV5-4	–	–	12.7	2.3	16	69
GV5-5	–	–	18.4	0.0	27	55	GV5-5	–	–	14.1	0.0	24	62
GV5-6	–	–	1.8	0.5	22	76	GV5-6	–	–	0.4	5.6	13	81
GV5-7	–	–	19.1	0.0	27	54	GV5-7	–	–	12.4	0.0	24	64
GV5-8	–	–	0.2	19.7	12	68	GV5-8	–	–	0.1	20.0	0.1	80
GV5-9	–	–	0.1	20.3	7.5	72	GV5-9	–	–	0.1	20.6	0.1	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 or snow cover;
(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:	Jul 21 - Jul 27						Week of:	Aug 04- Aug 10					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	-0.57	–	9.2	6.4	26	58	EW-1	-3.28	–	8.9	2.4	22	67
EW-2	-0.47	–	0.1	8.6	13	78	EW-2	-2.40	–	0.1	14.1	7.1	79
EW-3	-0.39	–	20.6	0.7	24	55	EW-3	-2.18	–	11.9	2.0	20	66
EW-4	–	–	20.9	0.0	25	54	EW-4	–	–	21.6	0.0	25	53
EW-5	–	–	34.3	0.0	29	37	EW-5	–	–	34.8	0.0	29	36
EW-6	–	–	31.5	0.6	25	43	EW-6	–	–	24.7	0.0	24	51
EW-7	–	–	23.3	0.8	24	52	EW-7	–	–	24.5	0.0	23	53
EW-8	–	–	32.8	0.0	28	39	EW-8	–	–	24.6	0.0	27	48
EW-9	–	–	37.5	0.0	31	32	EW-9	–	–	38.4	0.0	31	31
EW-10	-0.10	–	8.8	0.0	23	68	EW-10	-0.10	–	1.2	0.1	13	86
EW-11	-0.64	–	8.8	2.0	24	65	EW-11	-3.72	–	5.1	6.2	17	72
EW-12	-0.53	–	0.2	12.3	13	75	EW-12	-3.02	–	0.0	16.5	4.6	79
SW1	–	–	30.2	1.2	32	37	SW1	–	–	35.9	0.0	32	32
SW2	–	–	33.0	0.0	30	37	SW2	–	–	32.7	0.0	30	37
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	4.6	0.0	–	26	NW1	–	–	6.0	0.6	22	71
NW2	–	–	49.2	0.0	–	13	NW2	–	–	40.5	0.0	34	26
NW3	–	–	45.8	0.0	–	24	NW3	–	–	37.5	0.0	33	30
NW4	–	–	22.8	5.8	–	25	NW4	–	–	20.5	0.0	25	55
NW5	–	–	8.9	0.0	–	29	NW5	–	–	8.0	0.0	22	70
NW6	–	–	50.7	0.0	–	25	NW6	–	–	40.4	0.0	34	26
NW7	–	–	60.6	0.0	–	24	NW7	–	–	59.8	0.0	38	2.2
NW8	–	–	10.8	0.0	–	28	NW8	–	–	8.6	0.0	21	70
WC1	–	–	–	–	–	–	WC1	–	–	–	–	–	–
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	-3.60	–	–	–	–	FLARE 90	–	> -4.0	–	–	–	–

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).

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: 8/31/2014

Subject: LFG Monitoring Summary - Week of 08/18/14 - 08/24/14

Summary: All CPs remained in compliance this two week period.
There were three (3) flare flame failures due to low methane or other issues.
Flare operating cycles were 210 to 360 mins. ON and 1080 to 1230 mins. OFF.
Bi-Weekly Gas Vent, Extraction & Supplemental Well monitoring was performed August 24, 2014 with temps of 76 to 85°F and mostly sunny conditions.
Vacuum readings were taken on August 24, 2014.
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
8/18/2014	--	--	--	--	12:00#	--	--	--	0.0
8/19/2014	--	--	--	--	12:00#	--	--	--	0.0
8/20/2014	--	--	--	--	12:00	12:30#	--	--	0.5
8/21/2014	--	--	--	--	--	4:00	--	10:00	6.0
8/22/2014	--	--	--	--	1:00	4:30	--	--	3.5
8/23/2014	--	--	--	--	1:00	4:30	--	--	3.5
8/24/2014	--	--	10:00	--	--	2:00	--	--	4.0
								Total Hrs. =	17.5

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 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
8/18/2014	--	--	--	--	--
8/19/2014	--	--	--	--	--
8/20/2014	--	--	--	--	--
8/21/2014	--	--	--	--	--
8/22/2014	--	--	--	--	--
8/23/2014	CPs, TGP/GPs	10:00A - 1:30P	0.0	30.02 - 30.01	S
8/24/2014	TGP/GPs, GVs/S&Ews	10:00A - 1:30P	0.0	30.05 - 30.03	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)

	18-Aug		19-Aug		20-Aug		21-Aug		22-Aug		23-Aug		24-Aug	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2	CH4	O2
CP1-1R	–	–	–	–	–	–	–	–	–	–	0.0	17.1	–	–
CP1-2	–	–	–	–	–	–	–	–	–	–	0.0	16.2	–	–
CP1-3	–	–	–	–	–	–	–	–	–	–	0.0	15.3	–	–
CP1-4	–	–	–	–	–	–	–	–	–	–	0.0	15.0	–	–
CP1-5	–	–	–	–	–	–	–	–	–	–	0.0	16.0	–	–
CP1-7	–	–	–	–	–	–	–	–	–	–	0.0	17.0	–	–
CP1-9	–	–	–	–	–	–	–	–	–	–	0.0	15.4	–	–
CP1-11	–	–	–	–	–	–	–	–	–	–	0.0	15.1	–	–
CP1-13	–	–	–	–	–	–	–	–	–	–	0.0	14.7	–	–
GP-01 (for CP1-14)	–	–	–	–	–	–	–	–	–	–	0.0	17.8	–	–
GP-02 (for CP1b-1R)	–	–	–	–	–	–	–	–	–	–	0.0	16.2	–	–
CP1b-2R	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
CP1b-4R	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
CP1b-6R	–	–	–	–	–	–	–	–	–	–	0.0	19.4	–	–
TGP1b-E	–	–	–	–	–	–	–	–	–	–	0.0	19.7	–	–
TGP1b-A	–	–	–	–	–	–	–	–	–	–	0.0	20.3	–	–
TGP1b-F	–	–	–	–	–	–	–	–	–	–	0.0	19.5	–	–
TGP1b-B	–	–	–	–	–	–	–	–	–	–	0.0	20.1	–	–
TGP1b-G	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
TGP1b-C	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
TGP1b-H	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
TGP1b-D	–	–	–	–	–	–	–	–	–	–	0.0	20.6	–	–
GP-03	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
TGP-82	–	–	–	–	–	–	–	–	–	–	0.0	16.4	–	–
GP-04	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
TGP-83	–	–	–	–	–	–	–	–	–	–	0.0	18.1	–	–
CP2-1	–	–	–	–	–	–	–	–	–	–	0.0	19.6	–	–
CP2-2	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
CP2-4R	–	–	–	–	–	–	–	–	–	–	0.0	17.3	–	–
CP2-5R	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
CP-6R	–	–	–	–	–	–	–	–	–	–	0.0	18.6	–	–
CP2-7	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
CP2-8	–	–	–	–	–	–	–	–	–	–	0.0	18.2	–	–
TGP-06	–	–	–	–	–	–	–	–	–	–	0.0	17.9	–	–
TGP-East	–	–	–	–	–	–	–	–	–	–	0.0	20.7	–	–
TGP-Dads	–	–	–	–	–	–	–	–	–	–	0.0	18.5	–	–
CP3-1RR	–	–	–	–	–	–	–	–	–	–	0.0	14.4	–	–
CP3-2R	–	–	–	–	–	–	–	–	–	–	0.0	16.4	–	–
CP3-4R	–	–	–	–	–	–	–	–	–	–	0.0	20.0	–	–
CP3-5R	–	–	–	–	–	–	–	–	–	–	0.0	19.8	–	–
CP3-7R	–	–	–	–	–	–	–	–	–	–	0.0	18.7	–	–
CP3-8R	–	–	–	–	–	–	–	–	–	–	0.0	16.8	–	–
CP3-9	–	–	–	–	–	–	–	–	–	–	0.0	17.6	–	–
CP3-10R	–	–	–	–	–	–	–	–	–	–	0.0	19.4	–	–
CP3-12R	–	–	–	–	–	–	–	–	–	–	0.0	19.0	–	–
CP3-13R	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
CP3-14R	–	–	–	–	–	–	–	–	–	–	0.0	19.9	–	–
CP3-15R	–	–	–	–	–	–	–	–	–	–	0.0	19.1	–	–
TGP-89	–	–	–	–	–	–	–	–	–	–	0.0	18.9	–	–
CP4-A	–	–	–	–	–	–	–	–	–	–	0.0	17.9	–	–
CP4-B	–	–	–	–	–	–	–	–	–	–	0.0	18.3	–	–
CP4-C	–	–	–	–	–	–	–	–	–	–	0.0	16.1	–	–
CP4-1	–	–	–	–	–	–	–	–	–	–	0.2	7.2	–	–
CP4-2	–	–	–	–	–	–	–	–	–	–	0.0	16.4	–	–
CP4-3	–	–	–	–	–	–	–	–	–	–	0.0	18.0	–	–
CP4-4	–	–	–	–	–	–	–	–	–	–	0.0	18.4	–	–
CP4-6	–	–	–	–	–	–	–	–	–	–	0.0	17.4	–	–
CP5-1R	–	–	–	–	–	–	–	–	–	–	0.0	18.0	–	–
CP5-3R	–	–	–	–	–	–	–	–	–	–	0.0	17.2	–	–
CP5-4R	–	–	–	–	–	–	–	–	–	–	0.0	16.4	–	–
CP5-6	–	–	–	–	–	–	–	–	–	–	0.0	16.9	–	–
CP5-8	–	–	–	–	–	–	–	–	–	–	0.0	16.2	–	–

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)

	18-Aug		19-Aug		20-Aug		21-Aug		22-Aug		23-Aug		24-Aug	
Compliance Probes	CH4	O2	CH4	O2	CH4	O2	CH4	16.3	CH4	O2	CH4	O2	CH4	O2
TGP-76	--	--	--	--	--	--	--	--	--	--	--	--	0.0	20.0
TGP-63	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.5
TGP-57	--	--	--	--	--	--	--	--	--	--	--	--	0.0	20.5
TGP-62	--	--	--	--	--	--	--	--	--	--	--	--	0.0	12.2
GP-12	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.2
TGP-80	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.7
TGP-65	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.8
TGP-66	--	--	--	--	--	--	--	--	--	--	--	--	0.0	17.9
TGP-67	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.1
TGP-68	--	--	--	--	--	--	--	--	--	--	--	--	0.0	16.1
TGP-53	--	--	--	--	--	--	--	--	--	--	--	--	0.0	15.2
TGP-59	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.4
TGP-58	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.4
GP-14	--	--	--	--	--	--	--	--	--	--	--	--	0.0	18.6
TGP-87	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.4
TGP-88	--	--	--	--	--	--	--	--	--	--	--	--	0.0	19.1
TGP-89	--	--	--	--	--	--	--	--	--	--	0.0	20.8	--	--
TGP-90	--	--	--	--	--	--	--	--	--	--	0.0	19.1	--	--
GP-17	--	--	--	--	--	--	--	--	--	--	0.0	14.8	--	--
TGP-91	--	--	--	--	--	--	--	--	--	--	0.0	19.3	--	--
GP-18	--	--	--	--	--	--	--	--	--	--	0.0	18.9	--	--
TGP-73	--	--	--	--	--	--	--	--	--	--	0.0	16.4	--	--
TGP-74	--	--	--	--	--	--	--	--	--	--	0.0	19.1	--	--
TGP-84	--	--	--	--	--	--	--	--	--	--	0.0	16.9	--	--
TGP-75	--	--	--	--	--	--	--	--	--	--	0.0	15.2	--	--
TGP-85	--	--	--	--	--	--	--	--	--	--	0.0	18.1	--	--
TGP-72	--	--	--	--	--	--	--	--	--	--	0.0	18.3	--	--
TGP-86	--	--	--	--	--	--	--	--	--	--	0.0	17.3	--	--
TGP-32	--	--	--	--	--	--	--	--	--	--	0.0	19.5	--	--

(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:	Aug 04- Aug 10						Week of:	Aug 18- Aug 24					
Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal	Wellhead ID	Vacuum	Temp	CH4	O2	CO2	Bal
LEG 1	-7.12	--	--	--	--	--	LEG 1	-2.09	--	--	--	--	--
GV1-1	--	--	4.6	2.2	22	71	GV1-1	--	--	8.2	0.0	22	72
GV1-2	--	74	4.5	18.3	4.0	73	GV1-2	--	70	21.8	6.0	21	51
GV1-3	--	--	24.1	0.2	29	47	GV1-3	--	--	25.7	1.2	28	45
GV1-4	--	--	23.4	1.1	27	49	GV1-4	--	--	28.5	1.0	27	44
GV1-5	--	--	15.5	0.0	25	60	GV1-5	--	--	16.8	0.0	26	57
GV1-6	--	--	14.6	0.7	25	60	GV1-6	--	--	15.8	0.0	25	59
GV1-7	--	--	0.1	19.7	1.1	79	GV1-7	--	--	0.5	17.2	2.2	80
GV1-8	--	--	6.0	1.6	22	70	GV1-8	--	--	3.8	1.9	21	73
GV1-9	--	--	5.4	1.9	21	72	GV1-9	--	--	8.7	1.8	20	70
GV1-10X	--	--	9.7	8.1	17	67	**GV1-10X**	--	--	4.7	12.1	10	73
GV1-11	--	--	0.4	19.9	1.2	79	GV1-11	--	--	5.5	4.2	16	74
GV1-12	--	--	15.9	1.0	24	59	GV1-12	--	--	13.9	2.4	23	61
GV1-13	--	--	5.9	0.3	21	73	GV1-13	--	--	5.2	1.4	20	73
LEG 1b	-4.92	--	--	--	--	--	**LEG 1b**	-1.44	--	--	--	--	--
GV1b-1	--	--	0.7	16.0	6.1	77	GV1b-1	--	--	0.7	13.1	8.1	78
GV1b-2	--	--	0.0	20.9	0.5	79	GV1b-2	--	--	0.1	17.9	2.7	79
GV1b-3	--	--	8.0	1.2	10	81	GV1b-3	--	--	0.4	17.9	3.2	79
GV1b-4	--	--	0.4	16.0	5.7	78	GV1b-4	--	--	0.4	11.6	9.0	79
GV1b-5	--	70	0.1	20.0	1.4	79	GV1b-5	--	60	0.3	18.1	0.6	81
LEG 2	-0.98	--	--	--	--	--	**LEG 2**	-0.32	--	--	--	--	--
GV2-1	--	--	0.8	12.7	2.0	85	GV2-1	--	--	2.1	13.0	7.5	77
GV2-2	--	80	2.1	12.8	8.1	77	GV2-2	--	80	0.1	10.0	9.1	81
GV2-3	--	80	1.3	6.7	12	80	GV2-3	--	80	5.7	3.9	15	75
GV2-4	--	82	1.5	7.0	13	79	GV2-4	--	82	5.8	4.7	14	76
LEG 3	-0.31	--	--	--	--	--	**LEG 3**	-0.33	--	--	--	--	--
GV3-1	--	--	60.2	0.0	31	9	GV3-1	--	--	58.1	0.0	32	10
GV3-2	--	--	39.1	2.0	25	34	GV3-2	--	--	36.0	3.3	24	37
GV3-3	--	--	0.2	14.7	6.3	79	GV3-3	--	--	0.3	14.9	5.9	79
GV3-4	--	68	8.6	2.4	17	72	GV3-4	--	80	4.3	4.9	14	77
GV3-5	--	--	4.0	7.7	13	75	GV3-5	--	--	3.7	7.6	13	76
GV3-6	--	--	3.1	0.0	16	81	GV3-6	--	--	3.3	0.6	17	79
GV3-7	--	--	0.8	1.6	16	82	GV3-7	--	--	0.7	1.3	16	82
GV3-8	--	--	1.9	0.6	14	84	GV3-8	--	--	2.6	0.0	15	82
GV3-9	--	--	2.8	1.1	3.8	92	GV3-9	--	--	3.7	1.8	13	82
GV3-10 X	--	--	0.5	3.8	14	82	**GV3-10 X**	--	--	0.2	2.8	14	83
GV3-11	--	--	1.9	1.9	17	79	GV3-11	--	--	1.3	1.8	16	81
GV3-12	--	--	1.7	6.1	16	76	GV3-12	--	--	0.7	6.0	13	80
GV3-13	--	--	12.1	5.5	16	66	GV3-13	--	--	0.7	15.4	4.5	79
GV3-14	--	--	22.6	0.6	20	57	GV3-14	--	--	23.0	0.3	22	55
LEG 3	--	--	--	--	--	--	**LEG 3**	--	--	--	--	--	--
LEG 4	-0.10	--	--	--	--	--	**LEG 4**	-0.24	--	--	--	--	--
GV4-C	--	70	1.7	1.7	17	80	GV4-C	--	76	1.3	0.2	17	82
GV4-B	--	--	0.9	2.5	16	81	GV4-B	--	--	1.0	1.7	17	80
GV4-A	--	--	1.0	17.5	2.9	79	GV4-A	--	--	0.4	16.1	3.6	80
GV4-1	--	--	4.9	6.0	11	78	GV4-1	--	--	12.2	4.6	16	67
GV4-2	--	--	1.3	15.4	5.3	78	GV4-2	--	--	1.5	15.2	5.5	78
GV4-3	--	--	5.9	5.4	16	73	GV4-3	--	--	2.8	6.1	15	76
GV4-4 X	--	--	0.1	19.8	0.4	80	**GV4-4 X**	--	--	0.1	18.3	1.3	80
GV4-5	--	--	8.9	8.3	13	70	GV4-5	--	--	11.5	6.3	15	67
GV4-6	--	--	9.2	1.6	18	71	GV4-6	--	--	4.3	3.3	17	75
GV4-7	--	--	29.1	0.0	28	43	GV4-7	--	--	22.5	0.0	27	51
LEG 5	-0.10	--	--	--	--	--	**LEG 5**	-0.30	--	--	--	--	--
GV5-1	--	90	33.1	1.6	29	36	GV5-1	--	100	28.8	3.1	24	44
GV5-2	--	--	41.0	0.0	30	29	GV5-2	--	--	30.9	0.0	29	40
GV5-3	--	--	26.7	0.0	29	44	GV5-3	--	--	20.4	0.5	26	53
GV5-4	--	--	12.7	2.3	16	69	GV5-4	--	--	13.1	5.4	17	65
GV5-5	--	--	14.1	0.0	24	62	GV5-5	--	--	9.2	0.1	22	69
GV5-6	--	--	0.4	5.6	13	81	GV5-6	--	--	0.4	9.2	12	78
GV5-7	--	--	12.4	0.0	24	64	GV5-7	--	--	3.4	1.0	19	77
GV5-8	--	--	0.1	20.0	0.1	80	GV5-8	--	--	0.1	19.8	0.9	79
GV5-9	--	--	0.1	20.6	0.1	79	GV5-9	--	--	0.0	20.3	0.4	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 or snow cover;
(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:	Aug 04- Aug 10						Week of:	Aug 18- Aug 24					
Supplement/Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal	Supplement/ Extraction Well	Valve Notch	Vacuum	CH4	O2	CO2	Bal
EW-1	-3.28	–	8.9	2.4	22	67	EW-1	-0.98	–	9.5	2.1	23	65
EW-2	-2.40	–	0.1	14.1	7.1	79	EW-2	-0.63	–	0.0	12.4	8.6	79
EW-3	-2.18	–	11.9	2.0	20	66	EW-3	-0.58	–	14.2	1.9	21	63
EW-4	–	–	21.8	0.0	25	53	EW-4	–	–	13.3	2.5	20	64
EW-5	–	–	34.8	0.0	29	36	EW-5	–	–	28.5	1.6	27	43
EW-6	–	–	24.7	0.0	24	51	EW-6	–	–	22.3	0.0	25	53
EW-7	–	–	24.5	0.0	23	53	EW-7	–	–	24.2	0.9	24	51
EW-8	–	–	24.8	0.0	27	48	EW-8	–	–	25.3	0.0	26	49
EW-9	–	–	38.4	0.0	31	31	EW-9	–	–	35.9	0.0	30	34
EW-10	-0.10	–	1.2	0.1	13	86	EW-10	-0.30	–	0.7	5.6	10	84
EW-11	-3.72	–	5.1	6.2	17	72	EW-11	-1.11	–	6.3	3.8	20	70
EW-12	-3.02	–	0.0	16.5	4.6	79	EW-12	-0.78	–	0.0	16.5	4.0	80
SW1	–	–	35.9	0.0	32	32	SW1	–	–	31.6	0.0	30	38
SW2	–	–	32.7	0.0	30	37	SW2	–	–	32.1	1.8	30	36
SW3	–	–	–	–	–	–	SW3	–	–	–	–	–	–
NW1	–	–	6.0	0.6	22	71	NW1	–	–	5.3	0.1	22	73
NW2	–	–	40.5	0.0	34	26	NW2	–	–	40.2	0.0	33	27
NW3	–	–	37.5	0.0	33	30	NW3	–	–	38.6	0.0	34	27
NW4	–	–	20.5	0.0	25	55	NW4	–	–	20.4	0.8	24	55
NW5	–	–	8.0	0.0	22	70	NW5	–	–	15.4	5.0	20	60
NW6	–	–	40.4	0.0	34	26	NW6	–	–	41.8	0.0	34	24
NW7	–	–	59.8	0.0	38	2.2	NW7	–	–	58.3	0.0	36	5.7
NW8	–	–	8.6	0.0	21	70	NW8	–	–	6.8	4.1	17	72
WC1	–	–	–	–	–	–	WC1	–	–	–	–	–	–
WC4	–	–	–	–	–	–	WC4	–	–	–	–	–	–
FLARE 90	–	> -4.0	–	–	–	–	FLARE 90	–	> -4.0	–	–	–	–

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(8) Bal (Nitrogen) levels are the estimated balance gas remaining after deducting for CH4 (methane), O2 (oxygen), and CO2 (carbon dioxide).

Novak, Dion

From: Mike Samples <mikes@demaximis.com>
Sent: Wednesday, September 10, 2014 7:43 AM
To: Novak, Dion; Renninger, Steven
Cc: Scott Glum
Subject: Monthly Progress Report (North Sanitary Landfill)
Attachments: MPR235 (Aug'14) - AOC.pdf

Gentlemen,

Attached, in .pdf file format (less attachments), 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 August 2014 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.

Regards,
Mike

Michael H. Samples
de maximis, inc.
450 Montbrook Lane
Knoxville, TN 37919
(865) 691-5052 - Office
(865) 548-1875 - Cell
(865) 691-6485 - Fax
mikes@demaximis.com
www.demaximis.com