ALAN M. ARAKAWA
Mayor

KYLE K. GINOZA, P.E.
Director

MICHAEL M. MIYAMOTO
Deputy Director

TRACY TAKAMINE, P.E.
Solid Waste Division

ERIC NAKAGAWA, P.E.
Wastewater Reclamation Division

FEB 27 2014

Fed Ex
mail date 2/26/14

COUNTY OF MAUI
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
2200 MAIN STREET, SUITE 100
WAILUKU, MAUI, HAWAII 96793

February 21, 2014

Nolan Hirai, P.E.
Clean Air Branch
State of Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, Hawaii 96814

Dear Mr. Hirai:

SUBJECT: SEMI-ANNUAL REPORT FOR THE PERIOD OF JULY 1, 2013 THROUGH DECEMBER 31, 2013
CENTRAL MAUI LANDFILL
COVERED SOURCE PERMIT NO. 0652-01-C

Pursuant to Condition G.2 in Covered Source Permit (CSP) Number 0652-01-C issued to the County of Maui Department of Environmental Management (County) for the Central Maui Landfill (CML) and 40 Code of Federal Regulations (CFR) 60.756, the County is hereby submitting this Semi-Annual Report. This Semi-Annual Report covers the period of July 1, 2013 through December 31, 2013 and uses the following forms as required by Condition G.2 of the CSP:

- Monitoring Report Form, Collection and Control System
- Monitoring Report Form, Visible Emissions

Should you have any questions, please call Michael Ratte, Acting Solid Waste Division Chief, at (808) 270-7875.

Sincerely,

KYLE K. GINOZA, P.E.
DIRECTOR OF ENVIRONMENTAL MANAGEMENT

xc: Chief, Permits Office (AIR-3), USEPA Region 9, Air Division
Michael Kehano, SWD
Suzan Pankenier, Cornerstone Environmental Group

MD25824

FEB 27 2014

SEMI-ANNUAL MONITORING REPORT
JULY 1, 2013 THROUGH DECEMBER 31, 2013

CENTRAL MAUI LANDFILL
COVERED SOURCE PERMIT 0652-01-C

PUUNENE, MAUI, HAWAII

Prepared for

Solid Waste Division
County of Maui
2200 Main Street, Suite 225
Wailuku, Maui, Hawaii 96793

Prepared by

CORNERSTONE
Environmental Group, LLC
7600 Dublin Blvd., Suite 200
Dublin, CA 94568

Project 140102

Semi-Annual Monitoring Report
July 1, 2013 through December 31, 2013
Central Maui Landfill
Puunene, Maui, Hawaii

The material and data in this report were prepared under the supervision and direction of the undersigned.

Cornerstone Environmental Group, LLC

Suzan Pankenier
Senior Project Manager

Paul Stout
Regional Vice President

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1 INTRODUCTION

1.1 Purpose

This New Source Performance Standards (NSPS) Semi-Annual Report for the Central Maui Landfill (CML) is being submitted to the State of Hawaii Department of Health (DOH) and the United States Environmental Protection Agency (USEPA), Region 9 by the County of Maui Department of Environmental Management, Solid Waste Division (County). This Semi-Annual Report complies with the reporting requirements within the NSPS, 40 Code of Federal Regulations (CFR) Part 60, Subpart WWW as well as Section (§)G(2), Attachment II, of Covered Source Permit (CSP) 0652-01-C issued by the DOH on June 25, 2013.

The CML is regulated under the NSPS and the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, based upon the fact that the landfill expanded after May 30, 1991, the design capacity exceeded 2.5 million Megagrams (Mg), and a non-methane organic compounds (NMOC) emission rate calculation demonstrated an annual NMOC emission rate exceeding 50 megagrams per year (Mg/yr). The CML is an existing affected source under the Maximum Achievable Control Technology (MACT) rule for municipal solid waste (MSW) landfills.

This report provides information that satisfies the requirements of 40 CFR §60.756, and CSP Number 0652-01-C §G(2), covering the reporting period of July 1, 2013 through December 31, 2013.

1.2 Record Keeping and Reporting

This report is being submitted pursuant to 40 CFR §60.757(f) and CSP Number 0652-01-C §G(2). Records will be prepared and maintained in accordance with 40 CFR §60.758 and CSP Number 0652-01-C §F(10). The primary location for records storage will be at the CML.

1.3 Report Preparation

This Report has been prepared by Cornerstone Environmental Group, LLC (Cornerstone) as authorized by the County.

2 EXISTING SITE CONDITIONS

2.1 Landfill Description

The CML is located on the isthmus between West Maui and Haleakala in Pu'unene, Hawaii. An overall site plan for CML, Sheet 1 of Appendix E, illustrates the existing five (5) phases and future phase of landfill development. The existing GCCS is shown in Sheet 1 of Appendix E. Phases I, II, and III were the initially permitted areas of the site. Phases I and II began accepting waste in 1987 and were closed in 2006. Phase III was not developed as a landfill. Phases IV, V, and VI are separated from Phases I, II, and III by Kalialinui Gulch, a seasonal stream designated as waters of the State of Hawaii. Phase IV-A began accepting waste in November 2005, and Phase IV-B began operations in April 2007. Phase V-A construction was completed and began operations in December 2009. Phase V-B is constructed, DOH approval was received on April 21, 2012 and filling began in May 2012. Phase VI is not currently developed.

The County owns and operates Phases I through V and the landfill gas collection and control system (GCCS). The County is currently filling in Phase IV, Phase V-A and Phase V-B, and plans to expand the GCCS in Phase V.The County has begun operations in Phase V, which will also be included in the future GCCS expansion.The CML is a Class III MSW landfill as defined by the Resource Conservation and Recovery Act of 1976 (RCRA) Subtitle D.The CML accepts various residential, commercial, and light industrial refuse.Asbestos is accepted at the CML under the conditions of its current solid waste permit, but no other regulated hazardous waste or liquid wastes are accepted at the site.

2.2 Landfill Gas Collection and Control System

The existing GCCS was installed in the first and second quarters of 2008 and became operational on July 15, 2008.As of December 31, 2013, the GCCS consists of 54 vertical extraction wells in Phases I, II, and IV and seven (7) horizontal cleanouts in Phase V.A total of 47operating wells, located in Phases I and II, were installed in April 2008.The 7 remaining wells(of 54 wells) were installed in Phase IV, and the 7 horizontal cleanouts collectors were installed in Phase V in early 2011 and became operational on July 21, 2011. The vertical extraction wells have a maximum depth of 130 feet.The wells are constructed of six-inch (6") diameter, Schedule 80 Polyvinyl Chloride (PVC) pipes in 36-inch boreholes and are equipped with flow control valves. Landfill gas (LFG) iscollected from all areas of CML and diverted to a 2,045 standard cubic feet per minute (scfm) enclosed ground flare.

The GCCS will be expanded into Phase VI and Phase V within 5 years after each area is placed in service, thereby meeting the requirements of 40 CFR §60.752 (b)(2)(ii).Future additions to the GCCS will comply with the NSPS requirements and be reported in future NSPS reports.

The GCCS also includes a LFG handling skid, condensate tank, and a minimum 65 million British thermal units per hour (MMBTU/hr) enclosed LFG flare located at the northeast corner of Phase IV-A.The LFG handling system is designed for an ultimate capacity of 2,045 scfm. The average flow rate to the flare during this reporting period was approximately 650 scfm from Phases I, II, IV, and V.

3 SEMI-ANNUAL REPORTING REQUIREMENTS

In accordance with CSP Condition G.2 and 40 CFR §60.757(f), a semi-annual report must be submitted to the regulatory agency by applicable facilities, which contains performance and monitoring data for the operation of the GCCS.

3.1 NSPS Reporting Requirements

The requirements under the NSPS semi-annual report are as follows:

1. Value and length of time for exceedance of parameters monitored under 40 CFR §60.756(a), (b), (c), and (d) which include:

    - Monthly recording of gauge pressure at all wellheads, all wells must operate under negative pressure conditions (refer to §4.1.1 and Appendix B);
    - Monthly monitoring of oxygen or nitrogen concentrations at all wellheads, oxygen must be less than5 percent or nitrogen must be less than 20 percent (Refer to §4.1.2 and Appendix B);
    - Monthly monitoring of temperatures at all wellheads, temperature must be less than 55 degrees Celsius (°C) (131 degrees Fahrenheit [°F]) (Refer to § 4.1.3 and Appendix B);
    - For enclosed combustors with a heat input capacity less than 44 megawatts, all three (3) hour periods during which the average combustion temperature was more than 28°C below the average temperature recorded during the performance test for the control device; and (Refer to §4.3); and
    - Report all 3-hour averaging block of numerical continuous parameter (i.e., combustion temperature) monitoring data containing at least one (1) hour of invalid data.A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. Data collected during any of the events described in 40 CFR §63.1975 (monitoring system breakdowns, repairs, calibration checks; control device startup, shutdowns and malfunctions) are not to be included in any 3-hour averaging block (40 CFR §63.1955 – 40 CFR §63.1975) (Refer to §4.3).

2. Description and duration of all periods when the gas stream was diverted from the control device through a bypass line. (Refer to §4.2)

3. Description and duration of all periods when the control device was not operating for greater than 1 hour and the length of time that the device was not operating. (Refer to §4.3 and Appendix C).

4. All periods greater than 5 days when the collection system was not operating. (Refer to §4.4).

5. Location and concentration of all surface emission exceedances (greater than or equal to 500 parts per million [ppm] above background). (Refer to §4.5 and Appendix D).

6. Date of installation and location of each well or collection system expansions both planned and as the result of monitoring exceedances. (Refer to §4.6 and Appendix E).

3.2 CSP Reporting Requirements

The requirements pursuant to CSP Special Condition G.2 for the semi-annual report are as follows. This information can be found in §5 of this report and in Appendices F and G.

a. Information as required by the Initial Compliance Report in Special Condition G.3; and

b. Additional information, including:

i. Average and maximum gauge pressure within each gas extraction well measured over the six-month (6-month) period;

ii. Average and maximum nitrogen concentration or average and maximum oxygen concentration measured over the 6-month period;

iii. Average and maximum LFG temperature in extraction well measured over the 6-month period;

iv. Average and maximum methane concentration at landfill surface measured over each quarterly period. If annual monitoring is allowed, the average and maximum methane concentration at landfill surface during the most recent monitoring event;

v. Identification of any instances when the gas flow has been diverted from the control device, enclosed combustor, or open flare;

vi. Average, maximum, and minimum combustion temperature of an enclosed combustion device, as applicable;

vii. Identification of any instances in which the pilot flame or flare flame for an open flare was not present;

viii. For all maximum values, include the date and time that the value was identified;

ix. For all instances of non-compliance, indicate the dates, times, duration, and reason; and

Any opacity exceedances as determined by the required monthly visible emissions monitoring. Each exceedance reported shall include the date,6 minute average opacity reading, possible reasons for exceedance, duration of exceedance, and corrective actions taken. If there were no exceedances, the permittee shall submit in writing a statement indicating that for each piece of equipment there were no exceedances for that semi-annual period.

4 SEMI-ANNUAL NSPS REPORT

4.1 Wellfield Monitoring

Wellhead monitoring was performed on a monthly basis on the following dates:

- July 3, 10, and 11, 2013;
- August 1, 2, 6, and 7, 2013;
- September 10, 11, and 24, 2013;
- October 23, 24, 26, and 30, 2013;
- November 4, 13, 14, 18, 20, and 25, 2013; and
- December 3, 4, 6, 11, 19, 23, 26, and 27, 2013.

Wellfield Monitoring Logs for July 1, 2013 through December 31, 2013, are presented in Appendix A and the Wellfield Deviation Log is included in Appendix B.

4.1.1 Alternative Wellhead Operating Standard for Temperature

On January 2, 2013, CML received the finalized December 27, 2012 Consent Decree issued by the USEPA. The Consent Decreeallowsthe following wells to operate at the respective designated temperature higher operating values (HOVs):

<u>160°F Limit:</u>
EW-A-09, EW-A-12, EW-A-13, EW-A-15, EW-A-16, and EW-A-22.

<u>150°F Limit:</u>
EW-A-03, EW-A-04, EW-A-05, EW-A-07, EW-A-08, EW-A-10, EW-A-11, EW-A-18, EW-A-19, EW-A-25, EW-A-31, EW-A-38, and EW-A-42.

<u>140°F Limit:</u>
EW-A-01, EW-A-02, EW-A-06, EW-A-14, EW-A-21, EW-A-24, EW-A-26, EW-A-27, EW-A-28, EW-A-34, EW-A-37, and EW-A-39.

Wellfield Monitoring Logs for July 1, 2013 through December 31, 2013, are presented in Appendix A.

4.2 LFG Bypass Operations

No bypass line has been installed. Therefore, during the period encompassed under this report, LFG was not diverted through a bypass line.

4.3 Control Device Operation

The control device for CML consists of an enclosed ground flare. A monthly summary of the time periods, including reasons for the shutdown of the control device, are maintained at the site and is included in Appendix C.

The operating record for the enclosed flare was reviewed for the reporting period. The control device was offline for greater than one hour on four (4)occasions. A summary of the periods and durations when the control device was not in operation is included in Appendix C. The shutdowns were due to various reasons, including power outage, low stack temperature,accidental triggering of emergency stop,quarterly maintenance and inspection. In all cases the primary control device operation resumed as quickly as possible.No LFG was released to the atmosphere during the flare shutdowns since the gas collection system is automatically closed off when the control device is shutdown.

According to CSP Condition 16, "*The permittee shall notify the Department of Health in writing, of the intent to shut down air pollution control equipment for necessary scheduled maintenance at least twenty-four (24) hours prior to the planned shutdown.*"During the reporting period, there was 1 scheduled shutdowns of the enclosed flare. CML submitted An Intent to Shutdown Air Pollution Control Equipment Notification to the DOH on September 26, 2013 for the October 10, 2013 shutdown event. The enclosed flare was shutdown for GCCS construction or to conduct routine maintenance.

During the reporting period, there were no 3-hour periods during which the average combustion temperature was less than 1,525°F (50°F [28°C] below the average operating temperature recorded during the most recent performance test conducted on December 5, 2012).

During this reporting period there were no 3-hour averaging blocks of numerical continuous parameter monitoring data that contained at least 1 hour of invalid data as described in 40 CFR §63.1965 and 40 CFR §63.1975.

4.4 Collection System Operation

During the period encompassed under this report, the GCCS was not shutdown for more than 5 days on any occasion.

4.5 Surface Emissions Monitoring

Quarterly surface emissions monitoring (SEM) was performed by personnel by using a flame ionization detector (FID) as required under 40 CFR §60.754(c)(3).The SEM events were conducted around the perimeter of the collection area and in a serpentine pattern across the collection area as depicted in the SEM Plan included in the previously submitted GCCS Design Plan.In addition, any areas where visual observations indicated potentially elevated concentrations of methane were also screened.

The Third Quarter 2013 SEM event was conducted on September 25, 2013. There were no exceedances of the operational standard detected during the initial monitoring event. Since no exceedances were detected during the initial monitoring event, no further re-monitoring was required.

The Fourth Quarter 2013SEM event was conducted on December 26, 27, 28, and 31, 2013. There were no exceedances of the operational standard detected during the initial monitoring event. Since no exceedances were detected during the initial monitoring event, no further re-monitoring was required.

Appendix D includes the Third and Fourth Quarter 2013 SEM Reports.

4.6 Collection System Expansion

During the reporting period, the GCCS was not expanded.An updated as-built of the GCCS is included in Appendix E.

LIMITATIONS

The work product included in the attached was undertaken in full conformity with generally accepted professional consulting principles and practices and to the fullest extent as allowed by law we expressly disclaim all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose. The work product was completed in full conformity with the contract with our client and this document is solely for the use and reliance of our client (unless previously agreed upon that a third party could rely on the work product) and any reliance on this work product by an unapproved outside party is at such party's risk.

The work product herein (including opinions, conclusions, suggestions, etc.) was prepared based on the situations and circumstances as found at the time, location, scope and goal of our performance and thus should be relied upon and used by our client recognizing these considerations and limitations. Cornerstone shall not be liable for the consequences of any change in environmental standards, practices, or regulations following the completion of our work and there is no warrant to the veracity of information provided by third parties, or the partial utilization of this work product.

Central Maui Landfill

Wellfield Monitoring Report - July 1, 2013 through December 31, 2013

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMCO001E[2]	7/11/13 14:05	52.1	39.8	0.0	8.1	-0.33	-0.38	103.4	103.3	25.7		
CMCO001E[2]	8/2/13 9:20	50.0	39.1	0.0	10.9	-0.55	-0.55	103.4	103.3	25.5		
CMCO001E[2]	9/11/13 9:30	48.6	38.2	0.2	13.0	-0.50	-0.52	103.7	103.8	25.5		
CMCO001E[2]	10/24/13 6:53	49.8	38.2	0.2	11.8	-0.51	-0.52	102.5	102.6	26.1		
CMCO001E[2]	11/13/13 14:38	54.8	39.8	0.0	5.4	-0.63	-0.61	102.3	102.8	26.0		
CMCO001E[2]	12/19/13 13:02	48.8	37.2	0.1	13.9	-0.58	-0.54	104.4	104.5	26.4		
CMCO002E[2]	7/11/13 13:59	48.0	40.2	0.0	11.8	-0.34	-0.35	104.4	104.4	23.0		
CMCO002E[2]	8/2/13 9:15	48.5	39.7	0.0	11.8	-0.32	-0.36	104.4	104.4	22.9		
CMCO002E[2]	9/11/13 9:25	46.9	39.2	0.0	13.9	-0.47	-0.46	104.5	104.5	23.0		
CMCO002E[2]	10/24/13 6:48	47.7	38.8	0.0	13.5	-0.52	-0.51	104.1	104.0	22.7		
CMCO002E[2]	11/13/13 14:35	47.9	38.5	0.1	13.5	-0.23	-0.27	103.9	104.4	23.0		
CMCO002E[2]	12/19/13 12:58	42.1	35.9	0.2	21.8	-0.47	-0.46	104.9	105.2	23.3		
CMCO003E[2]	7/11/13 13:54	47.0	40.2	0.0	12.8	-0.43	-0.41	104.6	104.8	23.2		
CMCO003E[2]	8/2/13 9:10	49.5	40.3	0.0	10.2	-0.38	-0.37	104.9	105	23.0		
CMCO003E[2]	9/11/13 9:21	44.6	38.1	0.0	17.3	-0.54	-0.52	105	105	22.5		
CMCO003E[2]	10/24/13 6:42	44.7	37.1	0.0	18.2	-0.50	-0.54	104.4	104.4	22.9		
CMCO003E[2]	11/13/13 14:31	47.8	38.1	0.1	14.0	-0.38	-0.38	104.0	104.5	23.1		
CMCO003E[2]	12/19/13 12:53	38.5	33.9	0.1	27.5	-0.58	-0.58	104.4	105.0	23.2		
CMCO004E[2]	7/11/13 13:49	44.6	39.8	0.0	15.6	-1.09	-1.08	100.9	100.9	14.0		
CMCO004E[2]	8/2/13 9:03	47.7	40.9	0.0	11.4	-0.94	-0.93	100.8	100.8	14.0		
CMCO004E[2]	9/11/13 9:14	45.6	40.1	0.0	14.3	-0.93	-0.94	101.0	101.0	14.2		
CMCO004E[2]	10/24/13 6:36	47.5	40.2	0.0	12.3	-1.04	-1.06	100.2	100.3	13.9		
CMCO004E[2]	11/13/13 14:27	49.2	39.9	0.1	10.8	-0.95	-0.89	99.6	100.2	14.2		
CMCO004E[2]	12/19/13 12:49	38.2	34.4	0.1	27.3	-1.00	-1.00	100.0	100.7	14.7		
CMCO005E[2]	7/11/13 13:43	50.7	39.6	0.0	9.7	-0.56	-0.55	99.8	99.9	22.2		
CMCO005E[2]	8/2/13 8:58	52.3	40.1	0.0	7.6	-0.31	-0.31	99.3	99.3	22.2		
CMCO005E[2]	9/11/13 9:10	50.7	39.6	0.0	9.7	-0.39	-0.37	99.1	99.1	22.1		
CMCO005E[2]	10/24/13 6:30	53.5	39.7	0.0	6.8	-0.21	-0.27	97.0	97.0	22.2		
CMCO005E[2]	11/13/13 14:22	55.6	39.7	0.1	4.6	-0.20	-0.23	97.9	98.4	22.6		
CMCO005E[2]	12/19/13 11:39	47.8	38.2	0.1	13.9	-0.30	-0.33	99.1	99.8	22.5		
CMCO006E[2]	7/11/13 13:39	54.2	40.3	0.0	5.5	-0.53	-0.53	99.7	99.8	14.7		
CMCO006E[2]	8/2/13 8:54	55.0	40.4	0.0	4.6	-0.38	-0.37	98.8	98.8	14.9		
CMCO006E[2]	9/11/13 9:06	55.2	40.2	0.0	4.6	-0.39	-0.39	96	96.1	14.5		
CMCO006E[2]	10/23/13 15:38	56.0	39.8	0.0	4.2	-0.12	-0.29	99.1	99.1	14.6		
CMCO006E[2]	11/13/13 14:14	58.0	39.8	0.1	2.1	-0.27	-0.28	94.8	95.4	15.1		
CMCO006E[2]	11/13/13 14:18	57.9	39.9	0.1	2.1	-0.27	-0.67	95.3	95.5	15.0	INCREASED FLOW VACUUM	
CMCO006E[2]	12/4/13 8:15	49.7	39.3	0.0	11.0	-0.89	-0.92	96.0	96.6	22.4		
CMCO006E[2]	12/19/13 11:33	49.4	38.8	0.0	11.8	-0.70	-0.73	97.9	98.3	23.5		
CMCO006W[2]	7/3/13 9:30	52.0	40.5	0.1	7.4	-0.74	-0.73	92.7	93.1	9.4		
CMCO006W[2]	8/2/13 10:22	55.8	40.1	0.0	4.1	-0.71	-0.73	94.1	94.3	9.2		

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMCO006W[2]	9/11/13 10:24	55.1	40.1	0.0	4.8	-0.72	-0.70	95.4	95.4	8.8		
CMCO006W[2]	10/24/13 7:35	57.1	39.9	0.0	3.0	-0.81	-0.84	94	94.1	9.1		
CMCO006W[2]	11/13/13 15:31	56.8	40.3	0.0	2.9	-0.85	-0.86	91.9	92.3	9.6		
CMCO006W[2]	11/13/13 15:34	56.9	40.0	0.0	3.1	-0.85	-2.03	91.8	92.4	9.6	INCREASED FLOW VACUUM	
CMCO006W[2]	12/4/13 7:46	52.9	39.5	0.0	7.6	-2.44	-2.47	94.4	95.3	19.0		
CMCO006W[2]	12/19/13 13:58	52.2	39.5	0.0	8.3	-2.26	-2.28	95.5	96.2	18.7		
CMCO007E[2]	7/11/13 13:33	34.4	42.5	0.0	23.1	-0.55	-0.52	94.5	94.5	7.6	DECREASED FLOW VACUUM	
CMCO007E[2]	8/2/13 8:49	41.2	43.6	0.0	15.2	-0.32	-0.32	93.3	93.3	6.1		
CMCO007E[2]	9/11/13 9:02	39.7	41.6	0.0	18.7	-0.36	-0.34	87.7	88	6.3		
CMCO007E[2]	10/23/13 15:32	45.7	41.3	0.0	13.0	-0.22	-0.24	93.8	94.1	6.4		
CMCO007E[2]	11/13/13 14:10	46.7	40.1	0.1	13.1	-0.13	-0.18	91.9	92.3	6.3		
CMCO007E[2]	12/19/13 11:29	29.7	35.2	0.0	35.1	-0.28	-0.32	93.5	94.0	6.5		
CMCO007W[2]	7/3/13 9:24	49.3	40.9	0.1	9.7	-1.03	-1.04	92.9	93.1	11.1		
CMCO007W[2]	8/2/13 10:26	52.8	40.4	0.0	6.8	-1.02	-1.01	93.8	93.8	11.5		
CMCO007W[2]	9/11/13 10:28	52.2	40.4	0.0	7.4	-1.03	-1.01	94.5	94.5	11.3		
CMCO007W[2]	10/24/13 7:39	55.5	40.4	0.0	4.1	-0.99	-1.01	93.1	93.4	11.3		
CMCO007W[2]	11/13/13 15:38	55.8	40.5	0.0	3.7	-0.96	-0.99	90.6	91.1	11.5		
CMCO007W[2]	11/13/13 15:42	55.9	40.4	0.0	3.7	-1.01	-2.07	90.8	91.2	11.6	INCREASED FLOW VACUUM,NSPS CAI	
CMCO007W[2]	12/4/13 7:51	44.0	38.4	0.0	17.6	-2.21	-2.26	92.2	92.7	18.0		
CMCO007W[2]	12/19/13 14:02	44.4	38.2	0.0	17.4	-2.10	-2.14	92.8	93.4	18.5		
CMCO008W[2]	7/3/13 9:18	54.4	41.2	0.1	4.3	-1.21	-1.21	93.7	93.9	10.3		
CMCO008W[2]	8/2/13 10:31	56.5	40.7	0.0	2.8	-1.20	-1.19	94.1	94.1	10.1		
CMCO008W[2]	9/11/13 10:32	57.4	40.5	0.0	2.1	-1.17	-1.17	94.9	94.9	10.2		
CMCO008W[2]	10/24/13 7:42	59.5	40.4	0.0	0.1	-1.17	-1.19	94.2	94.3	10.4		
CMCO008W[2]	11/13/13 15:46	58.9	41.1	0.0	0.0	-1.30	-1.28	91.8	92.4	10.7		
CMCO008W[2]	11/13/13 15:49	58.9	41.1	0.0	0.0	-1.24	-2.47	91.9	92.3	10.4	INCREASED FLOW VACUUM,NSPS CAI	
CMCO008W[2]	12/4/13 7:55	53.5	40.8	0.0	5.7	-2.74	-2.76	93.4	94.1	17.2		
CMCO008W[2]	12/19/13 14:06	53.6	40.8	0.0	5.6	-2.64	-2.66	93.8	94.8	17.0		
CMCO009E[2]	7/11/13 13:28	23.1	42.7	0.0	34.2	-0.50	-0.47	94.2	94.6	5.4		
CMCO009E[2]	8/2/13 8:45	29.2	44.5	0.0	26.3	-0.23	-0.24	92.8	92.8	5.7		
CMCO009E[2]	9/11/13 8:58	28.5	41.0	0.0	30.5	-0.24	-0.24	93.1	93.1	5.2		
CMCO009E[2]	10/23/13 15:27	31.9	40.5	0.0	27.6	-0.14	-0.15	93.5	93.9	5.6		
CMCO009E[2]	11/13/13 14:05	34.7	39.1	0.2	26.0	-0.07	-0.08	91.4	91.6	5.6		
CMCO009E[2]	12/19/13 11:22	26.5	34.7	0.0	38.8	-0.10	-0.20	95.4	95.6	5.4		
CMCO009W[2]	7/3/13 9:11	39.7	40.1	0.2	20.0	-0.64	-0.62	102.3	102.6	13.4		
CMCO009W[2]	8/2/13 10:36	49.8	41.0	0.0	9.2	-0.55	-0.54	110.8	111.4	13.3		
CMCO009W[2]	9/11/13 10:36	49.7	42.8	0.0	7.5	-0.52	-0.52	97.5	97.5	13.3		
CMCO009W[2]	10/24/13 7:46	51.2	42.3	0.0	6.5	-0.60	-0.59	98	98.2	12.7		
CMCO009W[2]	11/13/13 14:05	34.7	39.1	0.2	26.0	-0.07	-0.08	91.4	91.6	5.6		
CMCO009W[2]	12/19/13 14:10	44.4	40.9	0.0	14.7	-0.61	-0.59	97.6	97.6	12.9		
CMEW0001	7/10/13 8:43	38.1	34.8	1.1	26.0	-0.06	-0.09	137.7	138.2	7.6		140
CMEW0001	8/1/13 8:21	36.5	33.3	1.5	28.7	-0.32	-0.33	138.3	138.4	9.0		140
CMEW0001	9/10/13 8:22	33.9	32.4	1.7	32.0	-0.25	-0.26	139.2	139.4	9.1		140

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0001[3]	10/23/13 9:30	34.6	32.0	1.7	31.7	-0.14	-0.22	138.3	138.9	9.2	***Anomalous Well Reading***	140
CMEW0001	10/26/13 8:29	34.0	31.7	1.9	32.4	-0.10	-0.33	140.0	140.4	9.3	***NSPS***	140
CMEW0001	10/30/13 11:26	38.9	34.4	0.8	25.9	-0.11	-0.16	139.8	140.6	9.3	***NSPS***	140
CMEW0001	10/30/13 11:56	38.8	34.4	0.8	26.0	-0.12	-0.23	139.3	140.6	9.3	NSPS CAI	140
CMEW0001	11/4/13 11:06	39.1	35.0	0.8	25.1	-0.13	-0.16	138.7	138.9	9.3		140
CMEW0001	11/13/13 8:58	33.8	32.3	1.7	32.2	-0.25	-0.33	137.1	139.4	9.3		140
CMEW0001	12/19/13 8:23	31.3	31.3	2.1	35.3	-0.48	-0.45	137.3	138.1	10.3		140
CMEW0002	7/10/13 8:35	21.0	28.2	0.7	50.1	-0.20	-0.15	140.4	138.7	7.9	DECREASED FLOW VACUUM	140
CMEW0002	8/1/13 8:16	23.6	29.4	0.4	46.6	-0.18	-0.20	138.9	138.9	7.0		140
CMEW0002	9/10/13 8:17	19.1	27.2	0.5	53.2	-0.10	-0.13	140.9	141	7.1	***NSPS CAI***	140
CMEW0002	9/24/13 9:25	18.1	26.4	0.5	55.0	-0.10	-0.17	140.8	141.1	7.2	***NSPS CAI***	140
CMEW0002[3]	10/23/13 9:25	19.6	27.0	0.5	52.9	-0.13	-0.14	141.1	140.8	7.1	***Anomalous Well Reading***	140
CMEW0002	10/26/13 8:21	19.0	26.5	0.5	54.0	-0.26	-0.31	139.8	142.0	7.2	***NSPS***	140
CMEW0002	10/30/13 11:10	25.2	29.6	0.3	44.9	-0.10	-0.12	140.1	142.3	7.3	NSPS CAI	140
CMEW0002	11/13/13 8:49	18.9	27.1	0.5	53.5	-0.22	-0.25	139.4	140.4	7.2	NSPS CAI	140
CMEW0002	11/13/13 8:53	19.0	27.0	0.6	53.4	-0.26	-0.33	139.1	140.3	7.1	***NSPS***	140
CMEW0002	11/18/13 9:26	21.5	27.6	0.5	50.4	-0.13	-0.19	140.9	141.5	7.6	NSPS CAI	140
CMEW0002	11/25/13 10:51	47.0	40.1	0.0	12.9	-0.28	-0.31	137.0	139.4	14.2		140
CMEW0002	CMEW0002 was offline for the duration of December 2013.											140
CMEW0003	7/10/13 8:29	35.2	35.1	0.6	29.1	-0.06	-0.09	136.6	137.3	6.4	INCREASED FLOW VACUUM	150
CMEW0003	8/1/13 8:12	36.7	35.6	0.5	27.2	-0.19	-0.19	137.8	137.8	7.6		150
CMEW0003	9/10/13 8:13	32.2	33.6	0.8	33.4	-0.13	-0.13	138	138.3	7.1		150
CMEW0003[3]	10/23/13 9:16	33.2	33.4	0.8	32.6	-0.16	-0.22	138.1	138.3	7.6	***Anomalous Well Reading***	150
CMEW0003	10/26/13 8:16	32.9	33.0	1.0	33.1	-0.32	-0.35	138.3	139.9	7.5		150
CMEW0003	11/13/13 8:43	33.1	33.7	0.9	32.3	-0.31	-0.35	135.9	137.6	7.4		150
CMEW0003	12/19/13 8:18	36.4	35.0	0.7	27.9	-0.27	-0.33	136.2	138.1	8.6		150
CMEW0004	7/10/13 8:22	33.3	34.4	0.2	32.1	-0.08	-0.07	136.4	137.7	5.4		150
CMEW0004	8/1/13 8:07	33.3	34.1	0.1	32.5	-0.19	-0.19	138.6	138.7	6.3		150
CMEW0004	9/10/13 8:09	30.7	33.5	0.0	35.8	-0.19	-0.20	139.7	139.5	6.1		150
CMEW0004[3]	10/23/13 9:09	30.6	32.9	0.0	36.5	-0.09	-0.22	138.6	139.4	6.4	***Anomalous Well Reading***	150
CMEW0004	10/26/13 8:10	30.9	32.9	0.0	36.2	-0.38	-0.30	138.5	140.0	6.3		150
CMEW0004	11/13/13 8:38	30.8	33.3	0.1	35.8	-0.31	-0.33	137.3	139.2	6.5		150
CMEW0004	CMEW0004 was offline for the duration of December 2013.											150
CMEW0005	7/10/13 8:11	23.3	29.2	0.1	47.4	-0.09	-0.05	132.4	133.4	8.4		150
CMEW0005	8/1/13 8:01	25.3	29.7	0.3	44.7	-0.41	-0.37	134.8	134.7	8.0		150
CMEW0005	9/10/13 8:04	23.0	28.6	0.5	47.9	-0.19	-0.17	134.6	134.4	8.5		150
CMEW0005[3]	10/23/13 9:03	23.1	28.1	0.5	48.3	-0.25	-0.26	134.6	134.8	8.6	***Anomalous Well Reading***	150
CMEW0005	10/26/13 8:04	23.2	28.2	0.5	48.1	-0.32	-0.35	134.8	135.2	8.6		150
CMEW0005	11/13/13 8:33	23.1	28.9	0.5	47.5	-0.19	-0.29	132.0	133.9	8.8		150
CMEW0005	CMEW0005 was offline for the duration of December 2013.											150
CMEW0006	7/10/13 8:52	42.2	37.8	0.0	20.0	-0.13	-0.17	132.3	132.3	3.6	INCREASED FLOW VACUUM	140
CMEW0006	8/1/13 9:15	40.5	36.8	0.0	22.7	-0.16	-0.20	133.9	134.3	6.1		140
CMEW0006	9/10/13 9:09	37.7	35.7	0.0	26.6	-0.12	-0.13	134.4	134.7	6.2		140
CMEW0006[3]	10/23/13 9:38	37.5	35.4	0.0	27.1	-0.11	-0.28	134.0	134.1	6.1	***Anomalous Well Reading***	140
CMEW0006	10/26/13 8:35	37.6	35.4	0.0	27.0	-0.34	-0.35	134.7	134.8	6.1		140
CMEW0006	11/13/13 9:03	36.8	35.6	0.1	27.5	-0.43	-0.42	131.6	132.8	5.9		140
CMEW0006	12/19/13 8:29	37.9	36.3	0.0	25.8	-0.42	-0.41	131.5	133.1	6.9		140
CMEW0007	7/11/13 9:13	33.4	41.4	0.0	25.2	-0.86	-0.83	148.1	147.8	5.2		150
CMEW0007	8/1/13 8:27	33.1	41.0	0.0	25.9	-0.68	-0.68	147.9	147.8	5.2		150
CMEW0007	9/10/13 8:31	33.4	41.0	0.0	25.6	-0.61	-0.62	148.1	148	5.2		150

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0007	10/23/13 14:28	32.1	41.1	0.0	26.8	-0.14	-0.14	148.1	148.9	5.7		150
CMEW0007	11/13/13 11:52	32.9	40.6	0.1	26.4	-0.25	-0.31	145.5	148.3	6.1		150
CMEW0007	12/19/13 10:47	34.0	39.9	0.0	26.1	-0.85	-0.85	148.1	150.2	6.2	***NSPS CAI***	150
CMEW0007	12/27/13 10:17	35.3	40.2	0.0	24.5	-0.65	-0.66	147.1	148.4	6.3		150
CMEW0008	7/11/13 9:08	35.4	39.1	0.0	25.5	-0.59	-0.60	149.1	149	5.1		150
CMEW0008	8/1/13 8:31	35.8	39.1	0.0	25.1	-0.35	-0.35	149.7	149.7	5.1		150
CMEW0008	9/10/13 8:35	35.1	38.8	0.0	26.1	-0.47	-0.47	148.6	148.9	5.1		150
CMEW0008*	10/23/13 14:33	34.8	39.4	0.0	25.8	-0.13	-0.15	149.6	150.2	5.3		150
CMEW0008	11/13/13 11:56	34.3	39.4	0.0	26.3	-0.11	-0.17	146.3	149.7	5.4		150
CMEW0008	12/19/13 10:51	37.3	39.0	0.0	23.7	-0.44	-0.48	149.5	151.2	6.0	***NSPS CAI***	150
CMEW0008	12/27/13 10:22	38.9	39.8	0.0	21.3	-0.28	-0.38	147.3	149.5	6.1		150
CMEW0009	7/11/13 9:04	41.9	42.5	0.0	15.6	-0.56	-0.58	154.5	154.5	8.9		160
CMEW0009	8/1/13 8:36	41.8	42.4	0.0	15.8	-0.22	-0.27	154.3	154.5	9.0		160
CMEW0009	9/10/13 8:39	42.5	42.3	0.0	15.2	-0.52	-0.49	155.1	155	9.0		160
CMEW0009	10/23/13 14:37	41.9	42.3	0.0	15.8	-0.12	-0.14	155.5	155.7	9.5		160
CMEW0009	11/13/13 12:00	41.9	42.5	0.0	15.6	-0.09	-0.14	153.4	155.7	9.5		160
CMEW0009	CMEW0009 was offline for the duration of December 2013.											160
CMEW0010	7/10/13 8:05	21.9	28.8	0.0	49.3	-0.33	-0.35	135	136.5	8.5	DECREASED FLOW VACUUM	150
CMEW0010	8/1/13 7:56	25.0	29.9	0.0	45.1	-0.09	-0.12	136.1	136.3	7.2		150
CMEW0010	9/10/13 8:00	24.0	29.7	0.0	46.3	-0.25	-0.28	135.7	135.5	6.8		150
CMEW0010[3]	10/23/13 8:59	25.0	29.8	0.0	45.2	-0.17	-0.20	135.8	136	7.6	***Anomalous Well Reading***	150
CMEW0010	10/26/13 7:58	25.2	29.8	0.0	45.0	-0.12	-0.13	134.8	136.4	7.5		150
CMEW0010	11/13/13 8:27	23.5	29.2	0.2	47.1	-0.25	-0.27	132.8	134.9	7.6		150
CMEW0010	CMEW0010 was offline for the duration of December 2013.											150
CMEW0011	7/10/13 8:56	46.0	39.5	0.0	14.5	-0.51	-0.50	135	134.8	5.8	INCREASED FLOW VACUUM	150
CMEW0011	8/1/13 9:20	45.3	38.8	0.1	15.8	-0.54	-0.59	136.5	136.3	7.2		150
CMEW0011	9/10/13 9:13	44.1	38.3	0.0	17.6	-0.51	-0.52	136.7	136.7	7.0		150
CMEW0011[3]	10/23/13 9:46	43.9	37.9	0.0	18.2	-0.73	-0.72	136.2	136.5	7.0	***Anomalous Well Reading***	150
CMEW0011	10/26/13 8:39	44.2	38.3	0.0	17.5	-0.80	-0.79	134.1	136.7	7.3		150
CMEW0011	11/13/13 9:08	43.1	38.2	0.1	18.6	-0.75	-0.76	134.0	135.5	7.2		150
CMEW0011	11/13/13 9:14	43.1	37.7	0.1	19.1	-0.73	-0.28	132.8	135.3	7.3	DECREASED FLOW VACUUM	150
CMEW0011	11/13/13 9:17	42.5	37.7	0.0	19.8	-0.18	-0.19	125.2	128.1	2.2		150
CMEW0011	12/3/13 10:14	52.5	40.2	0.0	7.3	0.03	-0.09	129.8	131.5	1.9	INCREASED FLOW VACUUM,NSPS CAI	150
CMEW0011	12/19/13 8:36	49.2	40.6	0.0	10.2	-0.46	-0.44	127.3	129.4	4.5		150
CMEW0012	7/11/13 9:18	41.4	43.2	0.0	15.4	-0.37	-0.42	152.7	152.3	3.5	INCREASED FLOW VACUUM	160
CMEW0012	8/2/13 8:33	40.9	42.4	0.0	16.7	-0.47	-0.47	154.6	154.5	6.0		160
CMEW0012	9/10/13 9:13	44.1	38.3	0.0	17.6	-0.51	-0.52	136.7	136.7	7.0		160
CMEW0012	10/23/13 14:22	37.0	43.3	0.0	19.7	-0.18	-0.20	153.9	154.5	6.3		160
CMEW0012	11/13/13 11:48	38.6	42.9	0.1	18.4	-0.21	-0.29	152.9	153.9	6.7		160
CMEW0012	12/19/13 10:44	40.2	41.2	0.0	18.6	-0.76	-0.74	153.0	153.7	6.7		160
CMEW0013	7/11/13 9:24	46.8	44.0	0.0	9.2	-0.47	-0.48	151.0	150.9	8.2		160
CMEW0013	8/1/13 8:46	46.2	43.4	0.0	10.4	-0.37	-0.36	150.7	150.8	9.0		160
CMEW0013	9/10/13 8:48	45.7	42.4	0.0	11.9	-0.39	-0.40	149.8	150.1	6.9		160
CMEW0013	10/23/13 14:48	43.6	43.7	0.0	12.7	-0.23	-0.25	153.0	153.7	7.2		160
CMEW0013	11/13/13 12:07	45.5	43.8	0.0	10.7	-0.25	-0.29	148.9	151.5	8.7		160
CMEW0013	12/19/13 10:55	46.7	42.2	0.0	11.1	-0.57	-0.57	151.9	152.7	6.4		160
CMEW0014	7/10/13 9:01	40.0	35.9	0.6	23.5	-0.39	-0.39	135.6	135.7	8.1		140
CMEW0014	8/1/13 9:24	41.8	35.9	0.7	21.6	-0.37	-0.34	136.5	136.4	8.4		140
CMEW0014	9/10/13 9:18	40.5	35.4	0.9	23.2	-0.21	-0.20	136.6	136.6	8.3		140
CMEW0014[3]	10/23/13 9:52	39.7	34.7	0.9	24.7	-0.43	-0.43	135.9	136.4	8.4	***Anomalous Well Reading***	140
CMEW0014	10/26/13 8:43	40.2	34.9	1.0	23.9	-0.44	-0.46	134.5	136.6	8.6		140

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0014	11/13/13 9:22	39.4	35.0	1.0	24.6	-0.48	-0.49	134.9	135.6	8.6		140
CMEW0014	12/19/13 8:53	37.4	34.3	1.4	26.9	-0.58	-0.58	133.8	134.9	9.4		140
CMEW0015	7/10/13 11:11	41.0	46.1	0.0	12.9	-0.74	-1.11	150.7	150.7	3.3	INCREASED FLOW VACUUM	160
CMEW0015	8/1/13 8:57	41.7	44.8	0.0	13.5	-1.58	-1.56	157.2	157.2	6.1		160
CMEW0015	9/10/13 8:52	40.6	44.4	0.0	15.0	-1.62	-1.63	157.3	157.4	6.8		160
CMEW0015	10/23/13 14:10	38.2	44.0	0.0	17.8	-1.42	-1.44	157.0	158.0	9.9		160
CMEW0015	11/13/13 11:33	40.0	43.7	0.0	16.3	-1.45	-1.47	150.8	155.5	9.6		160
CMEW0015	11/13/13 11:38	40.0	44.0	0.0	16.0	-1.54	-0.86	152.0	155.3	7.7	DECREASED FLOW VACUUM	160
CMEW0015	12/4/13 11:45	42.2	51.8	0.0	6.0	0.03	0.03	94.2	93.9	0.0	VALVE FULLY CLOSED; ***NSPS CAI***	160
CMEW0015	12/4/13 14:38	37.7	51.9	0.1	10.3	-0.79	-0.81	138.1	142.1	5.6		160
CMEW0015	12/6/13 13:16	37.3	52.1	0.5	10.1	-0.52	-0.62	109.7	114.5	4.3		160
CMEW0015	12/19/13 10:36	41.0	44.1	0.0	14.9	-1.37	-1.40	153.4	156.3	4.1		160
CMEW0016	7/11/13 8:59	42.5	40.8	0.0	16.7	-0.75	-0.76	149.1	149.8	4.7	INCREASED FLOW VACUUM	160
CMEW0016	8/1/13 8:41	41.1	39.8	0.0	19.1	-0.40	-0.40	149.8	149.2	6.0		160
CMEW0016	9/10/13 8:43	39.5	39.0	0.0	21.5	-0.61	-0.59	149.1	148.6	5.7		160
CMEW0016	10/23/13 14:42	42.5	40.4	0.0	17.1	-0.42	-0.42	150.4	150.9	6.5		160
CMEW0016	11/13/13 12:04	42.1	40.7	0.0	17.2	-0.29	-0.31	147.7	150.3	5.8		160
CMEW0016	CMEW0016 was offline for the duration of December 2013.											160
CMEW0017	7/10/13 7:59	29.4	32.2	0.1	38.3	-0.14	-0.20	123.1	123.9	9.1		
CMEW0017	8/1/13 7:52	30.7	32.1	0.1	37.1	-0.19	-0.20	124.7	124.5	9.3		
CMEW0017	9/10/13 7:55	30.1	32.0	0.1	37.8	-0.23	-0.24	124.8	124.6	9.1		
CMEW0017	10/23/13 8:47	32.4	32.6	0.0	35.0	-0.14	-0.18	124.1	124.6	7.3		
CMEW0017	10/30/13 10:15	33.2	32.5	0.0	34.3	-0.13	-0.13	123.8	125.5	7.0		
CMEW0017	10/30/13 10:54	36.7	33.8	0.0	29.5	-0.05	-0.13	123.2	124.7	7.1		
CMEW0017	11/13/13 8:22	29.5	32.0	0.1	38.4	-0.42	-0.41	122.8	124.4	12.5		
CMEW0017	11/18/13 9:21	34.3	33.3	0.1	32.3	-0.45	-0.42	123.8	124.8	13.4		
CMEW0017	CMEW0017 was offline for the duration of December 2013.											
CMEW0018	7/10/13 11:18	48.4	44.2	0.0	7.4	-0.51	-0.61	146.3	146.2	7.7	INCREASED FLOW VACUUM	150
CMEW0018	8/1/13 8:52	47.0	43.0	0.1	9.9	-0.87	-0.86	148.7	148.6	8.5		150
CMEW0018	9/10/13 8:56	45.9	42.4	0.1	11.6	-0.93	-0.92	148.3	148.3	8.7		150
CMEW0018*	10/23/13 14:05	45.0	43.2	0.0	11.8	-0.77	-0.77	150.7	150.5	9.4		150
CMEW0018	11/13/13 11:29	46.1	42.9	0.0	11.0	-0.89	-0.88	148.0	148.7	9.8		150
CMEW0018	12/19/13 10:32	44.7	41.5	0.0	13.8	-1.29	-1.29	148.0	149.6	10.8		150
CMEW0019	7/10/13 11:06	46.7	42.8	0.0	10.5	-0.59	-0.71	148.4	148.7	7.4		150
CMEW0019	8/1/13 9:01	46.7	41.9	0.0	11.4	-0.65	-0.65	149.5	149.3	8.4		150
CMEW0019	9/10/13 9:01	45.8	41.2	0.0	13.0	-0.73	-0.74	149.3	149.2	8.6		150
CMEW0019	10/23/13 14:15	44.4	40.7	0.0	14.9	-0.56	-0.56	149.7	149.9	8.9		150
CMEW0019	11/13/13 11:41	45.7	41.5	0.0	12.8	-0.65	-0.64	146.9	149.1	8.9		150
CMEW0019	12/19/13 10:40	46.3	40.8	0.0	12.9	-1.11	-1.12	149.3	149.9	10.3		150
CMEW0020	7/10/13 7:54	32.2	31.9	0.0	35.9	-0.19	-0.21	119.7	120.1	6.8		
CMEW0020	8/1/13 7:46	32.8	32.3	0.1	34.8	-0.18	-0.26	119.7	121	7.0		
CMEW0020	9/10/13 7:51	32.3	32.3	0.1	35.3	-0.33	-0.33	121.3	121.4	6.8		
CMEW0020[3]	10/23/13 8:34	33.7	31.9	0.0	34.4	-3.47	-3.46	97.1	98.0	0.0	***Anomalous Well Reading***	
CMEW0020[3]	10/23/13 8:53	34.2	32.0	0.0	33.8	-0.06	-0.11	97.8	97.5	3.7	***Anomalous Well Reading***	
CMEW0020	10/26/13 7:50	34.9	32.4	0.1	32.6	-0.08	-0.09	89.6	91.2	3.5		
CMEW0020	10/30/13 8:59	34.4	31.9	0.0	33.7	-0.02	-0.03	96.8	95.5	3.3		
CMEW0020	10/30/13 10:00	34.5	31.9	0.1	33.5	-0.12	-0.12	109.9	112.1	2.9		
CMEW0020	10/30/13 11:37	37.9	32.8	0.0	29.3	0.04	-0.16	120.4	121.0	2.7	***NSPS CAI;*** INCREASED FLOW VACUUM	
CMEW0020	11/13/13 8:17	33.0	32.9	0.1	34.0	-0.43	-0.43	116.5	117.9	8.2		
CMEW0020	12/19/13 8:10	37.2	34.4	0.0	28.4	-0.49	-0.50	116.9	117.7	9.9		
CMEW0021	7/10/13 9:07	28.6	32.1	0.0	39.3	-0.17	-0.16	132.7	132.6	9.9	DECREASED FLOW VACUUM	140

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0021	8/1/13 9:29	32.0	32.6	0.0	35.4	-0.08	-0.08	132.8	132.7	8.4		140
CMEW0021	9/10/13 9:22	30.4	32.2	0.1	37.3	-0.08	-0.10	132.7	132.9	8.4		140
CMEW0021[3]	10/23/13 9:59	29.9	31.7	0.0	38.4	-0.07	-0.15	132.4	133	8.3	Anomalous Well Reading	140
CMEW0021	10/26/13 8:51	29.8	31.6	0.0	38.6	-0.16	-0.19	131.3	133.1	8.2		140
CMEW0021	11/13/13 9:27	29.6	32.1	0.1	38.2	-0.12	-0.14	129.9	132.0	8.3		140
CMEW0021	12/19/13 8:59	26.5	31.5	0.0	42.0	-0.32	-0.37	130.3	131.9	9.1		140
CMEW0022	7/11/13 8:52	35.8	36.2	0.1	27.9	-0.66	-0.65	152.3	152.5	10.0	DECREASED FLOW VACUUM	160
CMEW0022	8/2/13 8:26	36.1	35.3	0.1	28.5	-0.14	-0.18	152.2	152.7	8.5		160
CMEW0022	9/11/13 8:19	34.8	34.7	0.2	30.3	-0.28	-0.27	151.3	151.2	8.5		160
CMEW0022[3]	10/23/13 13:59	38.3	36.7	0.0	25.0	0.11	0.11	152.2	152.2	8.7	***Anomalous Well Reading***	160
CMEW0022	10/26/13 9:39	35.9	34.8	0.1	29.2	-0.14	-0.15	151.9	152.7	8.5		160
CMEW0022	11/13/13 11:25	36.4	35.9	0.1	27.6	0.02	-0.03	150.7	151.7	8.7	***NSPS CAI;*** INCREASED FLOW VACUUM	160
CMEW0022	12/19/13 10:28	33.5	34.8	0.2	31.5	-0.63	-0.62	152.9	153.7	13.4		160
CMEW0023	7/10/13 11:00	38.5	34.6	0.0	26.9	-0.28	-0.29	111	111	10.7		
CMEW0023	8/2/13 7:57	38.8	34.5	0.0	26.7	-0.26	-0.26	112.5	112.5	10.5		
CMEW0023	9/11/13 7:58	36.8	34.0	0.0	29.2	-0.25	-0.24	111	111	10.0		
CMEW0023	10/23/13 12:23	39.8	34.5	0.0	25.7	-0.19	-0.23	113.8	114	11.1		
CMEW0023	11/13/13 10:48	38.0	34.6	0.0	27.4	-0.14	-0.16	108.0	109.1	10.6		
CMEW0023	12/19/13 10:01	34.1	33.6	0.0	32.3	-0.50	-0.51	108.7	109.7	12.1		
CMEW0024	7/10/13 9:13	31.1	32.5	0.4	36.0	-0.13	-0.17	132.6	134	9.7		140
CMEW0024	8/1/13 9:36	35.7	33.8	0.3	30.2	-0.11	-0.12	133.7	134	8.4		140
CMEW0024	9/10/13 9:26	35.5	34.1	0.4	30.0	-0.07	-0.08	134.4	134.6	8.5		140
CMEW0024[3]	10/23/13 10:10	35.5	33.9	0.3	30.3	-0.11	-0.13	134.6	134.6	8.5	***Anomalous Well Reading***	140
CMEW0024	10/26/13 8:55	35.5	33.8	0.5	30.2	-0.16	-0.17	133.7	134.8	8.4		140
CMEW0024	11/13/13 9:31	34.4	34.0	0.5	31.1	-0.10	-0.14	132.3	134.0	8.3		140
CMEW0024	12/19/13 9:03	30.0	32.2	1.0	36.8	-0.17	-0.18	132.0	133.2	8.5		140
CMEW0025	7/11/13 8:44	48.1	40.5	0.0	11.4	-0.67	-0.70	139.2	139.2	8.7	INCREASED FLOW VACUUM	150
CMEW0025	8/2/13 8:19	46.7	39.8	0.0	13.5	-0.25	-0.25	141.7	141.8	10.1		150
CMEW0025	9/11/13 8:14	45.0	39.0	0.0	16.0	-0.36	-0.37	139.9	140	10.5		150
CMEW0025	10/23/13 13:53	48.9	39.8	0.0	11.3	-0.23	-0.24	140.8	140.9	10.7		150
CMEW0025	11/13/13 11:19	47.8	40.5	0.0	11.7	-0.44	-0.42	138.8	140.2	10.7		150
CMEW0025	12/19/13 10:24	44.5	39.0	0.0	16.5	-0.59	-0.60	140.7	141.2	12.5		150
CMEW0026	7/10/13 10:55	46.2	37.9	0.0	15.9	-0.24	-0.35	127.6	127.5	5.2	INCREASED FLOW VACUUM	140
CMEW0026	8/2/13 7:53	45.9	37.5	0.0	16.6	-0.49	-0.49	129.8	129.7	7.4		140
CMEW0026	9/11/13 7:53	43.6	37.1	0.0	19.3	-0.53	-0.48	129.3	129.3	7.1		140
CMEW0026	10/23/13 12:16	45.6	37.2	0.0	17.2	-0.26	-0.29	129.2	129.7	7.4		140
CMEW0026	11/13/13 10:43	44.5	37.5	0.0	18.0	-0.40	-0.41	127.0	128.6	7.4		140
CMEW0026	12/19/13 9:43	41.0	36.9	0.0	22.1	-0.64	-0.66	126.7	128.4	8.6		140
CMEW0027	7/10/13 9:19	23.6	29.8	0.0	46.6	-0.20	-0.12	132.1	132.1	15.7	DECREASED FLOW VACUUM	140
CMEW0027	8/1/13 9:40	27.9	30.8	0.0	41.3	-0.22	-0.17	131.4	131.4	12.2		140
CMEW0027	9/10/13 9:30	28.2	31.1	0.0	40.7	-0.06	-0.05	131.7	131.4	11.6		140
CMEW0027[3]	10/23/13 10:18	28.3	30.9	0.0	40.8	-0.03	-0.06	131.5	131.7	11.4	***Anomalous Well Reading***	140
CMEW0027	10/26/13 9:00	28.4	31.2	0.1	40.3	-0.24	-0.25	131.4	131.9	12.6		140
CMEW0027	11/13/13 9:36	27.4	31.4	0.1	41.1	-0.19	-0.22	130.4	130.9	12.9		140
CMEW0027	12/19/13 9:08	23.6	30.0	0.3	46.1	-0.21	-0.24	130.9	131.7	13.9		140
CMEW0028	7/11/13 8:38	52.9	41.7	0.0	5.4	-0.34	-0.30	136	136.7	8.0	INCREASED FLOW VACUUM	140
CMEW0028	8/2/13 8:14	50.0	40.8	0.0	9.2	-0.18	-0.16	138.8	138.9	10.1		140
CMEW0028	9/11/13 8:10	47.2	39.7	0.0	13.1	-0.17	-0.22	137	137.3	10.5		140
CMEW0028	10/23/13 13:47	49.0	39.4	0.0	11.6	-0.17	-0.14	138.7	138.8	10.3		140
CMEW0028	11/13/13 11:14	48.1	40.3	0.0	11.6	-0.09	-0.13	136.8	138.0	10.5		140
CMEW0028	12/19/13 10:20	43.6	38.7	0.0	17.7	-0.49	-0.48	138.1	138.5	12.2		140

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0029	7/10/13 10:49	30.7	30.6	1.6	37.1	-0.32	-0.34	125.3	125.4	11.4	DECREASED FLOW VACUUM	
CMEW0029	8/1/13 11:29	32.3	31.3	1.2	35.2	-0.16	-0.17	125.3	125.4	9.8		
CMEW0029	9/11/13 7:46	25.8	27.7	2.5	44.0	-0.15	-0.15	125.7	125.7	9.6		
CMEW0029	10/23/13 12:09	35.3	32.7	0.7	31.3	-0.16	-0.17	126.1	126	9.7		
CMEW0029	11/13/13 10:39	30.6	30.8	1.4	37.2	-0.15	-0.19	123.6	125.3	9.6		
CMEW0029	12/19/13 9:39	23.3	27.2	2.4	47.1	-0.22	-0.28	123.9	124.8	11.1		
CMEW0030	7/10/13 9:25	31.7	32.9	0.0	35.4	-0.23	-0.18	117.8	117.9	9.6	DECREASED FLOW VACUUM	
CMEW0030	8/1/13 9:45	35.2	33.2	0.0	31.6	-0.19	-0.18	117.3	117.4	8.1		
CMEW0030	9/10/13 9:35	36.9	33.9	0.0	29.2	-0.14	-0.14	117.5	117.7	7.9		
CMEW0030[3]	10/23/13 10:25	37.0	33.9	0.0	29.1	-0.11	-0.12	117.5	117.8	8.2	***Anomalous Well Reading***	
CMEW0030	10/26/13 9:04	37.7	34.4	0.0	27.9	-0.23	-0.28	116.5	118.0	8.1		
CMEW0030	11/13/13 9:41	36.4	34.4	0.1	29.1	-0.18	-0.20	115.4	116.4	8.0		
CMEW0030	12/19/13 9:12	33.4	33.9	0.0	32.7	-0.33	-0.34	115.5	117.1	9.0		
CMEW0031	7/11/13 8:31	55.8	43.4	0.0	0.8	-0.46	-0.62	139.7	139.7	7.1	INCREASED FLOW VACUUM	150
CMEW0031	8/2/13 8:09	56.1	43.3	0.0	0.6	-0.76	-0.76	141.9	141.8	7.1		150
CMEW0031	9/11/13 8:06	56.0	43.2	0.1	0.7	-0.77	-0.76	141	141	8.0		150
CMEW0031[3]	10/23/13 13:41	55.3	42.4	0.0	2.3	-0.66	-0.64	141.2	141.2	8.5	***Anomalous Well Reading***	150
CMEW0031	10/26/13 9:45	54.9	42.3	0.1	2.7	-0.81	-0.85	139.5	141.2	8.7		150
CMEW0031	11/13/13 11:04	55.6	43.4	0.0	1.0	-0.76	-0.74	138.4	140.7	7.6		150
CMEW0031	11/13/13 11:10	55.5	43.3	0.0	1.2	-0.68	-0.96	138.8	141.8	8.7	INCREASED FLOW VACUUM	150
CMEW0031	12/4/13 11:40	54.8	42.8	0.1	2.3	-1.25	-1.29	140.7	142.2	12.4		
CMEW0031	12/19/13 10:15	55.0	42.8	0.0	2.2	-1.65	-1.64	140.4	142.3	11.8		
CMEW0032	7/10/13 10:42	26.1	30.3	0.0	43.6	-0.31	-0.32	124.9	124.9	14.5	DECREASED FLOW VACUUM	
CMEW0032	8/1/13 11:24	28.4	30.6	0.0	41.0	-0.28	-0.26	124.9	124.9	13.2		
CMEW0032	9/11/13 7:42	24.7	29.5	0.0	45.8	-0.23	-0.23	125.3	125.3	11.9		
CMEW0032	10/23/13 12:02	29.8	31.0	0.0	39.2	-0.11	-0.15	125.7	125.9	12.5		
CMEW0032	11/13/13 10:34	26.6	30.2	0.1	43.1	-0.14	-0.22	124.2	125.2	13.0		
CMEW0032	12/19/13 9:33	21.6	28.4	0.0	50.0	-0.29	-0.31	124.6	125.3	14.9		
CMEW0033	7/10/13 9:32	8.1	20.0	2.3	69.6	-0.21	-0.14	140.1	139.2	17.4	DECREASED FLOW VACUUM, NSPS CAI	
CMEW0033	7/11/13 8:03	8.4	20.8	1.9	68.9	-0.14	-0.07	130.0	130.5	14.0	DECREASED FLOW VACUUM	
CMEW0033	8/1/13 9:56	9.8	21.5	0.9	67.8	-0.06	-0.05	136.0	136.3	7.4	DECREASED FLOW VACUUM,VALVE BARELY OPEN,NSPS CAI	
CMEW0033	8/6/13 8:53	6.7	21.4	0.2	71.7	-0.02	-0.02	132.5	132.9	3.8	G500527	
CMEW0033	8/7/13 7:55	7.6	21.9	0.1	70.4	-0.05	-0.05	130.5	130.5	4.7	G500527	
CMEW0033	9/10/13 9:41	11.3	22.8	0.1	65.8	-0.02	-0.01	131.0	131.0	4.5	NSPS CAI	
CMEW0033	9/24/13 9:18	8.3	21.8	0.1	69.8	0.00	-0.01	130.5	130.5	5.2	***NSPS CAI***	
CMEW0033[3]	10/23/13 10:33	12.7	22.7	0.1	64.5	0.05	0.07	129.1	129.2	4.6	***Anomalous Well Reading***	
CMEW0033	10/26/13 9:09	11.4	22.7	0.1	65.8	-0.03	-0.04	129.4	129.8	4.8		
CMEW0033	11/13/13 9:47	9.1	21.9	0.3	68.7	0.03	0.03	128.0	128.4	4.9	NSPS CAI	
CMEW0033	11/13/13 9:51	8.7	21.8	0.3	69.2	-0.02	-0.03	127.6	128.3	4.8		
CMEW0033	11/20/13 8:45	8.5	21.6	0.3	69.6	0.01	0.01	129.1	129.4	4.7	NSPS CAI	
CMEW0033	11/25/13 10:48	8.2	22.3	0.1	69.4	-0.51	-0.50	130.4	130.7	24.3		
CMEW0033	CMEW0033 was offline for the duration of December 2013.											
CMEW0034	7/10/13 9:47	50.1	40.4	0.0	9.5	-0.36	-0.43	130.8	130.8	9.6	INCREASED FLOW VACUUM	140
CMEW0034	8/1/13 10:29	49.1	40.0	0.0	10.9	-0.62	-0.65	132.3	132.3	12.0		140
CMEW0034	9/10/13 9:58	48.4	38.9	0.0	12.7	-0.76	-0.75	132.3	132.3	13.1		140
CMEW0034[3]	10/23/13 10:44	48.8	39.0	0.0	12.2	-0.65	-0.65	132.3	132.4	12.8	***Anomalous Well Reading***	140
CMEW0034	10/26/13 9:14	49.0	39.4	0.0	11.6	-0.72	-0.72	131.3	132.4	12.8		140
CMEW0034	11/13/13 9:56	49.3	39.9	0.1	10.7	-0.80	-0.80	130.2	131.4	13.1		140
CMEW0034	12/19/13 9:18	45.1	38.8	0.0	16.1	-0.96	-0.98	131.2	132.0	14.8		140

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0035	7/10/13 10:36	35.3	34.2	0.0	30.5	-0.33	-0.32	122.1	122.2	9.5		
CMEW0035	8/1/13 11:17	36.1	34.0	0.0	29.9	-0.34	-0.34	122.1	122.1	9.6		
CMEW0035	9/11/13 7:36	34.8	33.8	0.0	31.4	-0.36	-0.36	121.9	122.1	9.4		
CMEW0035	10/23/13 11:56	37.9	34.4	0.0	27.7	-0.22	-0.23	122.4	122.5	9.6		
CMEW0035	11/13/13 10:30	35.8	34.4	0.1	29.7	-0.18	-0.23	119.8	121.4	9.8		
CMEW0035	12/19/13 9:26	31.7	33.2	0.0	35.1	-0.41	-0.41	120.3	121.4	11.4		
CMEW0036	7/10/13 9:54	5.9	21.6	0.0	72.5	-0.22	-0.11	136.9	136.9	18.2	DECREASED FLOW VACUUM, NSPS CAI	
CMEW0036	7/11/13 8:13	6.8	22.1	0.0	71.1	-0.09	-0.04	130.9	130.9	13.1	DECREASED FLOW VACUUM	
CMEW0036	8/1/13 10:36	10.6	23.8	0.0	65.6	-0.11	-0.05	134.7	134.7	9.8	DECREASED FLOW VACUUM,VALVE BARELY OPEN,NSPS CAI,,,,,	
CMEW0036	8/6/13 9:02	10.9	24.2	0.0	64.9	-0.21	-0.20	130.9	130.7	0.0	G500527	
CMEW0036	9/10/13 10:02	12.3	24.5	0.0	63.2	-0.02	-0.03	131.9	132.0	5.6	***NSPS CAI***	
CMEW0036	9/24/13 9:07	11.1	23.9	0.0	65.0	-0.02	-0.02	131.9	131.8	5.8		
CMEW0036[3]	10/23/13 10:57	18.6	26.9	0.0	54.5	0.10	0.11	130.7	130.7	4.6	***Anomalous Well Reading***	
CMEW0036	10/26/13 9:21	15.0	25.5	0.0	59.5	0.01	-0.02	131.3	131.4	4.5	***NSPS CAI***	
CMEW0036	11/13/13 10:01	11.3	23.8	0.1	64.8	-0.06	-0.08	131.3	131.8	10.3	NSPS CAI	
CMEW0036	11/20/13 8:51	10.3	23.4	0.0	66.3	-0.08	-0.09	132.3	132.7	7.3	NSPS CAI	
CMEW0036	11/25/13 11:00	31.7	33.8	0.0	34.5	-0.23	-0.28	128.5	129.2	21.2		
CMEW0036	CMEW0036 was offline for the duration of December 2013.											
CMEW0037	7/11/13 8:22	34.1	34.2	0.0	31.7	-0.22	-0.21	137.8	137.8	12.5		140
CMEW0037	8/2/13 8:04	33.7	33.7	0.1	32.5	-0.36	-0.35	138.7	138.6	12.5		140
CMEW0037	9/10/13 10:31	33.0	32.3	0.1	34.6	-0.18	-0.21	138	138	12.5		140
CMEW0037	10/23/13 13:32	35.4	33.3	0.1	31.2	-0.30	-0.35	138.0	138.0	12.4		140
CMEW0037	11/13/13 11:00	34.1	33.8	0.1	32.0	-0.39	-0.38	136.7	137.8	12.7		140
CMEW0037	12/19/13 10:10	33.4	33.5	0.0	33.1	-0.61	-0.60	137.9	138.4	14.8		140
CMEW0038	7/10/13 10:32	12.6	22.7	1.7	63.0	-0.21	-0.15	136.5	136.6	10.0	DECREASED FLOW VACUUM	150
CMEW0038	8/1/13 11:12	10.3	22.2	0.9	66.6	-0.13	-0.14	135	134.9	7.5		150
CMEW0038	9/11/13 7:32	7.4	21.3	1.3	70.0	-0.16	-0.14	136.9	136.9	7.2		150
CMEW0038[3]	10/23/13 11:49	16.1	24.1	1.2	58.6	0.00	0.01	136.3	136.8	7.3	***Anomalous Well Reading***	150
CMEW0038	10/26/13 9:33	12.7	22.5	1.4	63.4	-0.01	-0.01	138.2	138.6	7.4		150
CMEW0038	11/13/13 10:25	11.8	22.4	1.6	64.2	-0.05	-0.07	135.0	136.3	7.4		150
CMEW0038	11/20/13 9:16	9.3	20.9	1.7	68.1	-0.11	-0.15	137.9	138.1	8.3		150
CMEW0038	CMEW0038 was offline for the duration of December 2013.											150
CMEW0039	7/10/13 10:20	17.2	26.8	0.0	56.0	-0.52	-0.22	135	135	20.3		140
CMEW0039	8/1/13 11:03	18.6	26.7	0.0	54.7	-0.20	-0.24	135	135	18.9		140
CMEW0039	9/10/13 10:27	18.7	26.8	0.0	54.5	-0.14	-0.15	135.2	135.3	20.3		140
CMEW0039	10/23/13 13:24	20.9	26.9	0.1	52.1	-0.31	-0.29	135.3	135.2	21.3		140
CMEW0039	11/13/13 10:55	19.7	27.4	0.1	52.8	-1.37	-1.38	134.8	135.1	0.0		140
CMEW0039	12/19/13 10:07	26.3	29.5	0.0	44.2	-0.59	-0.59	134.9	135.4	25.4		140
CMEW0040	7/10/13 10:26	10.4	23.4	0.0	66.2	-0.33	-0.29	124	124	16.7	DECREASED FLOW VACUUM	
CMEW0040	8/1/13 10:57	13.4	24.3	0.0	62.3	-0.16	-0.17	122	122	11.0		
CMEW0040	9/10/13 10:22	11.2	23.7	0.1	65.0	-0.23	-0.17	124.1	124.0	12.9		
CMEW0040	10/23/13 11:43	13.3	24.0	0.0	62.7	-0.15	-0.16	124.4	124.4	12.6		
CMEW0040	11/13/13 10:21	11.2	23.7	0.0	65.1	-0.12	-0.15	123.5	123.9	12.8		
CMEW0040	11/20/13 9:09	10.3	22.9	0.1	66.7	-0.15	-0.24	123.8	124.6	14.8		
CMEW0040	CMEW0040 was offline for the duration of December 2013.											
CMEW0041	7/10/13 10:00	10.4	23.7	0.1	65.8	-0.22	-0.16	127.8	127.6	13.0	DECREASED FLOW VACUUM	
CMEW0041	8/1/13 10:41	14.1	25.2	0.1	60.6	-0.22	-0.23	127.5	127.5	10.2		
CMEW0041	9/10/13 10:08	13.9	25.0	0.1	61.0	-0.23	-0.23	128.4	128.4	10.2		
CMEW0041[3]	10/23/13 11:03	14.4	25.3	0.1	60.2	-0.15	-0.17	128.8	128.8	10.1	***Anomalous Well Reading***	

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0041	10/26/13 9:29	14.3	25.2	0.1	60.4	-0.19	-0.24	128.2	129.2	10.2		
CMEW0041	11/13/13 10:08	13.1	24.9	0.2	61.8	-0.18	-0.22	127.3	128.4	10.1		
CMEW0041	11/20/13 8:56	12.9	24.7	0.2	62.2	-0.14	-0.22	127.8	128.6	11.4		
CMEW0041	CMEW0041 was offline for the duration of December 2013.											
CMEW0042	7/10/13 10:06	18.1	26.8	0.0	55.1	-0.29	-0.15	138.1	138.1	15.2	DECREASED FLOW VACUUM	150
CMEW0042	8/1/13 10:47	22.8	28.1	0.0	49.1	-0.22	-0.21	135.7	136	11.7		150
CMEW0042	9/10/13 10:13	21.0	27.6	0.0	51.4	-0.27	-0.26	137.5	137.6	12.4		150
CMEW0042	10/23/13 11:28	22.1	27.9	0.1	49.9	-0.19	-0.20	137.3	137.2	12.6		150
CMEW0042	11/13/13 10:12	20.4	27.4	0.0	52.2	-0.07	-0.23	136.3	137.3	13.0		150
CMEW0042	11/20/13 9:01	18.8	26.9	0.0	54.3	-0.21	-0.27	137.9	138.7	13.9		150
CMEW0042	CMEW0042 was offline for the duration of December 2013.											150
CMEW0043	7/10/13 10:12	26.0	30.2	0.0	43.8	-0.38	-0.26	126.4	126.4	14.9	DECREASED FLOW VACUUM	
CMEW0043	8/1/13 10:54	29.2	30.6	0.0	40.2	-0.16	-0.17	126.1	126.1	13.8		
CMEW0043	9/10/13 10:18	28.3	30.5	0.0	41.2	-0.27	-0.26	126.3	126.4	14.2		
CMEW0043	10/23/13 11:36	29.0	30.5	0.0	40.5	-0.31	-0.37	126.4	126.3	13.5		
CMEW0043	11/13/13 10:17	28.9	30.8	0.1	40.2	-0.39	-0.39	125.2	125.9	14.7		
CMEW0043	11/20/13 9:05	28.1	30.8	0.0	41.1	-0.54	-0.54	126.2	126.6	16.0		
CMEW0043	CMEW0043 was offline for the duration of December 2013.											
CMEW0044	7/10/13 11:38	30.8	26.7	5.0	37.5	-0.47	-0.28	107.2	107.2	6.4	DECREASED FLOW VACUUM, NSPS CAI	
CMEW0044	7/11/13 13:17	36.6	29.9	3.7	29.8	-0.44	-0.44	106.4	106.4	3.1		
CMEW0044	8/1/13 11:40	36.4	29.3	3.8	30.5	-0.21	-0.20	107.4	107.5	3.6		
CMEW0044	9/11/13 8:30	34.6	27.7	4.9	32.8	-0.15	-0.15	106.4	106.4	2.7		
CMEW0044	10/23/13 14:55	40.0	30.7	3.3	26.0	-0.05	-0.08	107.5	107.6	2.7		
CMEW0044	11/13/13 12:15	42.8	33.1	2.2	21.9	0.01	-0.11	105.4	106.1	3.4	***NSPS CAI;*** INCREASED FLOW VACUUM	
CMEW0044	12/19/13 11:05	30.6	25.1	5.8	38.5	-0.21	-0.37	106.0	106.9	6.7	NSPS CAI	
CMEW0044	12/23/13 8:17	28.8	23.9	6.8	40.5	-0.13	-0.34	102.7	104.2	5.4	NSPS CAI	
CMEW0044	12/26/13 12:24	37.0	29.2	3.9	29.9	-0.10	-0.11	105.7	106.4	5.6	NSPS CAI	
CMEW0045**	7/10/13 11:44	55.9	40.9	0.0	3.2	-0.40	-0.39	118	118.3	15.3	VALVE FULLY OPEN, VALVE FULLY CLOSED	
CMEW0045**	8/1/13 11:46	56.4	40.4	0.0	3.2	-0.41	-0.42	119.7	119.9	15.3	VALVE FULLY OPEN,VALVE FULLY CLOSED	
CMEW0045**	9/11/13 8:35	57.2	40.7	0.0	2.1	-0.38	-0.37	117.8	118.2	15.4	VALVE FULLY OPEN, VALVE FULLY CLOSED	
CMEW0045**	10/23/13 15:02	56.7	41.1	0.1	2.1	0.14	0.14	86.6	86.7	0.0	***Anomalous Well Reading***	
CMEW0045**	10/26/13 7:42	58.2	41.7	0.0	0.1	0.02	0.04	75.7	75.7	0.2	***Anomalous Well Reading;*** VALVE FULLY CLOSED	
CMEW0045**	11/13/13 12:19	58.0	41.9	0.1	0.0	0.04	0.09	87.0	87.1	0.0	VALVE FULLY CLOSED	
CMEW0045	CMEW0045 was offline for the duration of December 2013.											
CMEW0046	7/10/13 11:50	33.7	30.7	3.0	32.6	-0.11	-0.13	124.4	124.4	27.8		
CMEW0046	8/1/13 11:52	30.6	27.5	4.5	37.4	-0.21	-0.19	125.3	125.3	28.4		
CMEW0046	9/11/13 8:43	23.1	21.5	7.6	47.8	-0.14	-0.10	123.8	124.0	28.5	DECREASED FLOW VACUUM,NSPS CAI	
CMEW0046	9/24/13 9:36	29.2	26.0	5.2	39.6	-0.04	-0.05	125.8	126.4	15.3		
CMEW0046	10/23/13 15:07	39.3	32.5	2.3	25.9	0.00	-0.01	126.3	126.4	15.4	***NSPS CAI***	
CMEW0046	11/13/13 12:23	47.1	38.2	0.0	14.7	-0.02	-0.03	125.3	126.0	15.6		
CMEW0046	CMEW0046 was offline for the duration of December 2013.											
CMEW0047	7/10/13 11:57	32.1	32.1	1.6	34.2	-0.19	-0.14	123.1	123.4	12.5		
CMEW0047	8/1/13 11:57	32.4	31.1	2.1	34.4	-0.31	-0.29	123.7	123.5	12.6		
CMEW0047	9/11/13 8:49	28.6	28.8	3.0	39.6	-0.27	-0.29	123.4	123.3	12.8		
CMEW0047	10/23/13 15:13	32.4	30.0	2.6	35.0	-0.15	-0.17	124.9	124.6	0.0		
CMEW0047	11/13/13 12:27	34.5	32.2	1.6	31.7	-0.13	-0.17	123.9	124.6	12.8		
CMEW0047	CMEW0047 was offline for the duration of December 2013.											
CMEW0049	7/11/13 14:41	51.8	40.1	0.0	8.1	-0.32	-0.26	124.3	124.3	10.8		
CMEW0049	8/2/13 9:57	51.5	39.8	0.0	8.7	-0.66	-0.63	124.9	124.9	10.9		
CMEW0049	9/11/13 10:02	50.9	39.8	0.0	9.3	-0.58	-0.57	124.4	124.5	10.6		

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0049	10/24/13 7:15	52.3	39.8	0.0	7.9	-0.71	-0.72	124	124.4	10.4		
CMEW0049	11/13/13 15:02	52.5	39.9	0.1	7.5	-0.68	-0.69	120.1	120.8	10.0		
CMEW0049	12/4/13 8:33	52.6	40.0	0.0	7.4	-0.89	-0.91	122.6	123.6	10.8		
CMEW0049	12/19/13 13:40	54.0	40.3	0.0	5.7	-0.50	-0.51	122.5	123.2	10.6		
CMEW0050	7/11/13 14:36	51.3	39.1	0.5	9.1	-0.06	-0.28	124.4	124.4	10.8	INCREASED FLOW VACUUM	
CMEW0050	8/2/13 9:52	43.3	34.3	2.4	20.0	-0.74	-0.77	124.6	124.6	13.6		
CMEW0050	9/11/13 9:58	42.6	34.2	2.5	20.7	-0.95	-0.93	123.7	123.7	11.8		
CMEW0050	10/24/13 7:10	42.6	33.6	2.8	21.0	-0.86	-0.86	122.7	123.4	14.5		
CMEW0050	11/13/13 14:54	47.7	37.2	0.9	14.2	-0.84	-0.85	128.0	129.2	12.7		
CMEW0050	11/13/13 14:58	47.7	37.0	1.0	14.3	-0.84	-0.46	128.4	128.6	13.2	DECREASED FLOW VACUUMI	
CMEW0050	12/4/13 8:28	51.7	39.2	0.4	8.7	-0.52	-0.55	127.8	129.0	8.2		
CMEW0050	12/19/13 13:19	56.0	40.4	0.1	3.5	-0.08	-0.11	127.9	128.4	8.3		
CMEW0051	7/11/13 14:48	53.9	40.5	0.2	5.4	0.04	-0.27	123.6	124.2	10.4	INCREASED FLOW VACUUM, NSPS CAI	
CMEW0051	8/2/13 10:02	47.7	37.6	1.1	13.6	-0.76	-0.76	124.4	124.4	12.3		
CMEW0051	9/11/13 10:06	47.5	37.4	1.2	13.9	-0.79	-0.76	124	124.1	11.3		
CMEW0051	10/24/13 7:19	47.3	36.8	1.4	14.5	-0.88	-0.90	123.9	124.0	12.1		
CMEW0051	11/13/13 15:05	49.7	38.2	1.1	11.0	-0.77	-0.76	122.8	123.9	12.1		
CMEW0051	11/13/13 15:09	49.7	38.0	1.0	11.3	-0.74	-0.40	122.7	123.7	13.3	DECREASED FLOW VACUUM	
CMEW0051	12/4/13 8:36	50.9	38.6	1.0	9.5	-0.46	-0.48	123.0	124.0	8.5		
CMEW0051	12/19/13 13:44	57.4	41.5	0.1	1.0	-0.01	-0.02	122.9	123.4	7.0		
CMEW0052	7/11/13 14:31	52.8	41.1	0.0	6.1	-0.69	-0.71	128.2	128.2	17.1		
CMEW0052	8/2/13 9:47	51.9	40.3	0.1	7.7	-1.14	-1.12	128.6	128.6	16.5		
CMEW0052	9/11/13 9:54	51.5	40.2	0.2	8.1	-1.00	-1.00	128.4	128.4	16.6		
CMEW0052	10/24/13 7:05	52.5	40.0	0.2	7.3	-1.16	-1.19	127.1	128.4	16.4		
CMEW0052	11/13/13 14:51	54.2	40.6	0.1	5.1	-1.06	-1.04	127.8	128.3	16.8		
CMEW0052	12/19/13 13:13	54.7	41.0	0.0	4.3	-0.69	-0.70	128.1	128.8	17.3		
CMEW0053	7/11/13 14:53	55.2	40.5	0.0	4.3	-0.90	-0.85	123.3	123.3	18.8		
CMEW0053	8/2/13 10:07	54.4	39.7	0.2	5.7	-1.39	-1.37	123.7	123.6	17.7		
CMEW0053	9/11/13 10:11	54.3	39.9	0.2	5.6	-1.37	-1.36	123.7	123.7	18.1		
CMEW0053	10/24/13 7:23	55.3	39.8	0.2	4.7	-1.45	-1.48	123.6	123.9	17.9		
CMEW0053	11/13/13 15:13	56.0	40.6	0.2	3.2	-1.38	-1.40	122.9	123.6	18.9		
CMEW0053	11/13/13 15:16	56.1	40.4	0.2	3.3	-1.30	-1.69	123.2	123.6	18.4	INCREASED FLOW VACUUM	
CMEW0053	12/4/13 8:44	54.1	39.7	0.4	5.8	-2.07	-2.09	122.8	123.7	21.6		
CMEW0053	12/19/13 13:47	55.0	40.3	0.2	4.5	-1.70	-1.69	123.1	123.6	22.6		
CMEW0054	7/11/13 14:26	48.9	39.1	0.2	11.8	-0.11	-0.18	119.7	119.7	15.0		
CMEW0054	8/2/13 9:42	46.0	37.2	0.8	16.0	-0.67	-0.68	120.2	120.2	14.6		
CMEW0054	9/11/13 9:49	45.6	37.2	0.8	16.4	-0.60	-0.61	120.3	120.3	15.0		
CMEW0054	10/24/13 7:01	45.7	36.3	1.1	16.9	-0.75	-0.74	119.9	120.1	14.5		
CMEW0054	11/13/13 14:43	49.2	37.9	0.7	12.2	-0.56	-0.57	119.8	120.3	15.2		
CMEW0054	11/13/13 14:47	49.2	38.0	0.7	12.1	-0.57	-0.30	119.5	120.0	14.6	DECREASED FLOW VACUUM	
CMEW0054	12/4/13 8:22	50.5	38.7	0.7	10.1	-0.41	-0.38	118.9	119.7	9.7		
CMEW0054	12/19/13 13:09	55.4	40.3	0.1	4.2	0.07	-0.09	119.4	119.8	9.4	***NSPS CAI;*** INCREASED FLOW VACUUM	
CMEW0055	7/11/13 14:59	50.5	39.6	0.2	9.7	-0.48	-0.47	125.4	125.3	14.7		
CMEW0055	8/2/13 10:12	45.6	36.8	1.3	16.3	-0.74	-0.73	125.8	125.7	14.3		
CMEW0055	9/11/13 10:15	45.1	36.7	1.4	16.8	-0.73	-0.71	125.1	125.2	13.6		
CMEW0055	10/24/13 7:28	45.5	36.0	1.6	16.9	-0.80	-0.82	125.4	125.7	13.4		
CMEW0055	11/13/13 15:20	49.1	38.6	0.8	11.5	-0.66	-0.66	124.9	125.6	14.6		
CMEW0055	11/13/13 15:24	48.9	38.4	0.8	11.9	-0.71	-0.41	124.6	125.4	14.5	DECREASED FLOW VACUUM	

Device ID	Date Time	CH_4	CO_2	O_2	BAL	I. S.P.	A. S.P.	I. TEMP	A. TEMP	I. FLOW	Comments	HOV[1]
		%	%	%	%	in. wc.	in. wc.	Deg. F.	Deg. F.	scfm		
CMEW0055	12/4/13 8:40	46.4	37.3	1.3	15.0	-0.46	-0.49	124.5	125.5	8.9		
CMEW0055	12/19/13 13:51	56.9	41.9	0.0	1.2	-0.06	-0.09	125.1	125.3	10.1		

<<>> - Data not available due to GEM calculations.

NSPS/CAI = New Source Performance Standard/Correction Action Initiated

[1] -Higher Operating Value (HOV) approved per United States Environmental Protection Agency (USEPA) Consent Decree issues December 27, 2012.

[2] - Leachate clean-out risers are non-interior wells, which are subject to pressure (negative pressure) requirements, but not temperature (less than 131°F) or oxygen (less than 5 percent) limits

[3]Anomalous Well Readings due to technician error. Anomalous readings with deviations from the regulations were not recognized as exceedances, due to inaccurate data. Readings not utilized for maximum and average values in Appendix F.

*Temperature accuracy of the GEM5000 ±0.5 degrees Celsius (°C), therefore wellfield readings determined not to be above threshold of 150°F.

**CMEW0045 was offline for the duration of the reporting period. Readings were taken while no vacuum applied to well therefore it is considered anomalous well reading.

ACRONYMS

CH4 - Methane **CO2** - Carbon Monoxide **O2** - Oxygen **SP** - Static Pressure **in. w.c.** - inches water column **HOV** - Higher Operating Value

APPENDIX B

WELLFIELD DEVIATION REPORT

Central Maui Landfill
JULY 1, 2013 THROUGH DECEMBER 31, 2013 WELLFIELD DEVIATION REPORT

REPORT PREPARED BY: Cornerstone
UPDATED DATE 2/5/2014
LFG MONITORING DEVICE: GEM
MODEL: 2000
DATE LAST CALIBRATED: DAILY

Well ID	Time/Date	CH_4 (%)	CO_2 (%)	O_2 (%)	Balance (%)	Initial Static Press. ("WC)	Adj. Static Press. ("WC)	Initial Temp. (°F)	Adj. Temp. (°F)	Flow scfm	Comments	HOV Request (°F)	Duration (Days) of Exceedance as of the End of the Reporting Period
CMEW0033	7/10/13 9:32	8.1	20	2.3	69.6	-0.21	-0.14	140.1	139.2	17.4	DECREASED FLOW VACUUM, NSPS CAI		
CMEW0033	7/11/13 8:03	8.4	20.8	1.9	68.9	-0.14	-0.07	130.0	130.5	14	DECREASED FLOW VACUUM		1
CMEW0033 had a temperature exceedance detected on 7/10/2013. The well was adjusted and re-monitored on 7/11/2013, and no further exceedance was detected.													
CMEW0036	7/10/13 9:54	5.9	21.6	0	72.5	-0.22	-0.11	136.9	136.9	18.2	DECREASED FLOW VACUUM, NSPS CAI		
CMEW0036	7/11/13 8:13	6.8	22.1	0	71.1	-0.09	-0.04	130.9	130.9	13.1	DECREASED FLOW VACUUM		1
CMEW0036 had a temperature exceedance detected on 7/10/2013. The well was adjusted and re-monitored on 7/11/2013, and no further exceedance was detected.													
CMEW0044	7/10/13 11:38	30.8	26.7	5.0	37.5	-0.5	-0.3	107.2	107.2	6.4	DECREASED FLOW VACUUM, NSPS CAI		
CMEW0044	7/11/13 13:17	36.6	29.9	3.7	29.8	-0.4	-0.4	106.4	106.4	3.1			1
CMEW0044 had an oxygen exceedance detected on 7/10/2013. The well was adjusted and re-monitored on 7/11/2013, and no further exceedance was detected.													
CMEW0051	7/11/13 14:48	53.9	40.5	0.2	5.4	0.0	-	123.6	124.2	10.4	INCREASED FLOW VACUUM, NSPS CAI		
CMEW0051	7/11/13 14:48	53.9	40.5	0.2	5.4	-	-0.3	123.6	124.2	10.4	INCREASED FLOW VACUUM, NSPS CAI		<1
CMEW0051 had a pressure exceedance detected on 7/11/2013. The well was adjusted that same day, and no further exceedance was detected.													
CMEW0033	8/1/13 9:56	9.8	21.5	0.9	67.8	-0.06	-0.05	136.0	136.3	7.4	DECREASED FLOW VACUUM, VALVE BARELY OPEN, NSPS CAI		
CMEW0033	8/6/13 8:53	6.7	21.4	0.2	71.7	-0.02	-0.02	132.5	132.9	3.8	G500527		
CMEW0033	8/7/13 7:55	7.6	21.9	0.1	70.4	-0.05	-0.05	130.5	130.5	4.7	G500527		6
CMEW0033 had a temperature exceedance detected on 8/1/2013. The well was adjusted and re-monitored on 8/6/2013, but the well remained in exceedance. The well was adjusted and re-monitored on 8/7/2013, and no further exceedance was detected.													
CMEW0036	8/1/13 10:36	10.6	23.8	0	65.6	-0.11	-0.05	134.7	134.7	9.8	DECREASED FLOW VACUUM, VALVE BARELY OPEN, NSPS CAI		
CMEW0036	8/6/13 9:02	10.9	24.2	0	64.9	-0.21	-0.2	130.9	130.7	0	G500527		6
CMEW0036 had a temperature exceedance detected on 8/1/2013. The well was adjusted and re-monitored on 8/6/2013, and no further exceedance was detected.													
CMEW0001	10/26/13 8:29	34.0	31.7	1.9	32.4	-0.10	-0.33	140.0	140.4	9.3	***NSPS CAI***	140	
CMEW0001	10/30/13 11:26	38.9	34.4	0.8	25.9	-0.11	-0.16	139.8	140.6	9.3	***NSPS CAI***	140	<1 (temperature)
CMEW0001	10/30/13 11:56	38.8	34.4	0.8	26.0	-0.12	-0.23	139.3	140.6	9.3	NSPS CAI	140	<1 (temperature)
CMEW0001	11/4/13 11:06	39.1	35.0	0.8	25.1	-0.13	-0.16	138.7	138.9	9.3		140	5 (temperature)
CMEW0001 had a temperature exceedance detected on 10/26/2013. The well was adjusted and re-monitored on 10/30/2013, and no further temperature exceedance was detected at the initial temperature reading, on 10/30/2013, CMEW0001 had a temperature exceedance detected at the adjusted temperature reading on. The well was adjusted and re-monitored on that same day, and no further temperature exceedance was detected at the initial temperature reading, but a temperature exceedance detected at the adjusted temperature reading. Corrective action was initiated that day, but the well remained in exceedance. The well was adjusted and re-monitored on 11/4/2013, and no further temperature exceedance was detected.													
CMEW0002	9/10/13 8:17	19.1	27.2	0.5	53.2	-0.1	-0.1	140.9	141.0	7.1	***NSPS***	140	
CMEW0002	9/24/13 9:25	18.1	26.4	0.5	55.0	-0.1	-0.2	140.8	141.1	7.2	***NSPS CAI***	140	
CMEW0002	10/26/13 8:21	19.0	26.5	0.5	54.0	-0.3	-0.3	139.8	142.0	7.2	***NSPS CAI***	140	48 (temperature)
CMEW0002	10/30/13 11:10	25.2	29.6	0.3	44.9	-0.10	-0.12	140.1	142.3	7.3	NSPS CAI	140	
CMEW0002	11/13/13 8:49	18.9	27.1	0.5	53.5	-0.22	-0.25	139.4	140.4	7.2	NSPS CAI	140	18 (temperature)
CMEW0002	11/13/13 8:53	19.0	27.0	0.6	53.4	-0.3	-0.3	139.1	140.3	7.1	***NSPS CAI***	140	<1 (temperature)
CMEW0002	11/18/13 9:26	21.5	27.6	0.5	50.4	-0.1	-0.2	140.9	141.5	7.6	NSPS CAI	140	
CMEW0002	11/25/13 10:51	47.0	40.1	0.0	12.9	-0.3	-0.3	137.0	139.4	14.2		140	12 (temperature)
CMEW0002 had a temperature exceedance detected on 9/10/2013. The well was adjusted and re-monitored on 9/24/2013, but the well remained in exceedance. The well was adjusted and re-monitored on 10/26/2013, and no further exceedance was detected at the initial reading. On 10/26/2013, CMEW0002 had a temperature exceedance detected at the adjusted temperature reading. Corrective actions were initiated on 10/30/2013, and the well was re-monitored, but the well remained in exceedance for temperature. The well was adjusted and re-monitored on 11/13/2013, and no further temperature exceedance was detected at the initial temperature reading. On 11/13/2013,CMEW0002 had a temperature exceedance detected at the adjusted temperature reading. Corrective actions were initiated that same day, and no further temperature exceedance was detected at the initial temperature reading yet a temperature exceedance detected at the adjusted temperature reading. Corrective actions were initiated on 11/18/2013, but the well remained in exceedance. The well was adjusted and re-monitored on 11/25/2013, and no further temperature exceedance was detected.													
CMEW0020	10/30/13 11:37	37.9	32.8	0.0	29.3	0.04	-0.16	120.4	121.0	2.7	***NSPS CAI;*** INCREASED FLOW VACUUM		
CMEW0020	10/30/13 11:37	37.9	32.8	0.0	29.3	-	-0.16	120.4	121.0	2.7	***NSPS CAI;*** INCREASED FLOW VACUUM		<1
CMEW0020 had a pressure exceedance detected on 10/30/2013. Corrective action was initiated and the well was adjusted that same day, the adjusted pressure reading indicated no further pressure exceedance.													
CMEW0022	11/13/13 11:25	36.4	35.9	0.1	27.6	0.02	-0.03	150.7	151.7	8.7	INCREASED FLOW VACUUM	160	
CMEW0022	11/13/13 11:25	36.4	35.9	0.1	27.6	-	-0.03	150.7	151.7	8.7	INCREASED FLOW VACUUM	160	<1
CMEW0022 had a pressure exceedance detected on 11/13/2013. Corrective action was initiated and the well was adjusted that same day, the adjusted pressure reading indicated no further pressure exceedance.													

Well ID	Time/Date	CH_4 (%)	CO_2 (%)	O_2 (%)	Balance (%)	Initial Static Press. ("WC)	Adj. Static Press. ("WC)	Initial Temp. (°F)	Adj. Temp. (°F)	Flow scfm	Comments	HOV Request (°F)	Duration (Days) of Exceedance as of the End of the Reporting Period
CMEW0033	9/10/13 9:41	11.3	22.8	0.1	65.8	-0.02	-0.01	131.0	131.0	4.5	***NSPS***		
CMEW0033	9/24/13 9:18	8.3	21.8	0.1	69.8	0.0	-0.01	130.5	130.5	5.2	***NSPS CAI***		<1 (pressure) 14 (temperature)
CMEW0033 had a temperature exceedance detected on 9/10/2013. The well was adjusted and re-monitored on 9/24/2013, there was no longer a temperature exceedance, but there was a pressure exceedance detected. The well was adjusted and the adjusted pressure reading indicated no further pressure exceedance.													
CMEW0033	11/13/13 9:47	9.1	21.9	0.3	68.7	0.03	0.03	128	128.4	4.9	NSPS CAI		
CMEW0033	11/13/13 9:51	8.7	21.8	0.3	69.2	-0.02	-0.03	127.6	128.3	4.8			<1
CMEW0033 had a pressure exceedance detected on 11/13/2013. Corrective action was initiated and the well was adjusted and re-monitored that same day, and no further pressure exceedance was detected.													
CMEW0033	11/20/13 8:45	8.5	21.6	0.3	69.6	0.01	0.01	129.1	129.4	4.7	NSPS CAI		
CMEW0033	11/25/13 10:48	8.2	22.3	0.1	69.4	-0.51	-0.5	130.4	130.7	24.3			5
CMEW0033 had a pressure exceedance detected on 11/20/2013. Corrective action was initiated and the well was adjusted and re-monitored on 11/25/2013, and no further pressure exceedance was detected.													
CMEW0036	9/10/13 10:02	12.3	24.5	0.0	63.2	-0.02	-0.03	131.9	132.0	5.6			
CMEW0036	9/24/13 9:07	11.1	23.9	0.0	65.0	-0.02	-0.02	131.9	131.8	5.8			
CMEW0036	10/26/13 9:21	15	25.5	0.0	59.5	0.01	-0.02	131.3	131.4	4.5	***NSPS CAI***		<1 (pressure)
CMEW0036	11/13/13 10:01	11.3	23.8	0.1	64.8	-0.06	-0.08	131.3	131.8	10.3			
CMEW0036	11/20/13 8:51	10.3	23.4	0.0	66.3	-0.08	-0.09	132.3	132.7	7.3			
CMEW0036	11/25/13 11:00	31.7	33.8	0.0	34.5	-0.23	-0.28	128.5	129.2	21.2			76 (temperature)
CMEW0036 had a temperature exceedance detected on 9/10/2013. The well was adjusted and re-monitored on 9/24/2013, 10/26/2013, 11/13/2013 and 11/20/2013, but the well remained in exceedance for temperature. A pressure exceedance was detected on the initial pressure reading at the well on 10/26/2013. Corrective action was initiated and the well was adjusted that same day, the adjusted pressure reading indicated no further pressure exceedance. The well was adjusted and re-monitored on 11/25/2013, and no further temperature exceedance was detected.													
CMEW0044	11/13/13 12:15	42.8	33.1	2.2	21.9	0.01	-0.11	105.4	106.1	3.4	INCREASED FLOW VACUUM		
CMEW0044	11/13/13 12:15	42.8	33.1	2.2	21.9	-	-0.11	105.4	106.1	3.4	INCREASED FLOW VACUUM		<1
CMEW0044 had a pressure exceedance detected on 11/13/2013. Corrective action was initiated and the well was adjusted that same day, the adjusted pressure reading indicated no further pressure exceedance.													
CMEW0046	9/11/13 8:43	23.1	21.5	7.6	47.8	-0.14	-0.1	123.8	124.0	28.5	DECREASED FLOW VACUUM,NSPS CAI		
CMEW0046	9/24/13 9:36	29.2	26	5.2	39.6	-0.04	-0.05	125.8	126.4	15.3			
CMEW0046	10/23/13 15:07	39.3	32.5	2.3	25.9	0.00	-0.01	126.3	126.4	15.4	***NSPS CAI***		44 (oxygen) <1 (pressure)
CMEW0046 had an oxygen exceedance detected on 9/11/2013. The well was adjusted and re-monitored on 9/24/2013, but the well remained in exceedance. The well was adjusted and re-monitored on 10/23/2013, and no further oxygen exceedance was detected, but a pressure exceedance was detected at the initial pressure reading. Corrective action was initiated and the well was adjusted, the adjusted pressure reading indicated no further pressure exceedance.													
CMEW0007	12/19/13 10:47	34.0	39.9	0.0	26.1	-0.85	-0.85	148.1	150.2	6.2	***NSPS CAI***	150	
CMEW0007	12/27/13 10:17	35.3	40.2	0.0	24.5	-0.65	-0.66	147.1	148.4	6.3	NSPS CAI	150	8
CMEW0007 had a temperature exceedance detected on 12/19/2013. The well was adjusted and re-monitored on 12/27/2013, and no further exceedance was detected.													
CMEW0008	12/19/13 10:51	37.3	39.0	0.0	23.7	-0.44	-0.48	149.5	151.2	6	***NSPS CAI***	150	
CMEW0008	12/27/13 10:22	38.9	39.8	0.0	21.3	-0.28	-0.38	147.3	149.5	6.1	NSPS CAI	150	
CMEW0008 had a temperature exceedance detected on 12/19/2013. The well was adjusted and re-monitored on 12/27/2013, and no further exceedance was detected.													
CMEW0011	12/3/13 10:14	52.5	40.2	0.0	7.3	0.03	-0.09	129.8	131.5	1.9	INCREASED FLOW VACUUM,NSPS CAI	150	
CMEW0011	12/3/13 10:14	52.5	40.2	0.0	7.3	-	-0.09	129.8	131.5	1.9	INCREASED FLOW VACUUM,NSPS CAI	150	<1
CMEW0011 had a pressure exceedance detected on 12/3/2013. The well was adjusted that same day and the adjusted pressure reading indicated no further pressure exceedance.													
CMEW0015	12/4/13 11:45	42.2	51.8	0.0	6.0	0.03	0.03	94.2	93.9	0	VALVE FULLY CLOSED	160	
CMEW0015	12/4/13 14:38	37.7	51.9	0.1	10.3	-0.79	-0.81	138.1	142.1	5.6	0	160	<1
CMEW0015 had a pressure exceedance detected on 12/4/2013. The well was adjusted and re-monitored on that same day, and no further pressure exceedance was detected.													
CMEW0044	12/19/13 11:05	30.6	25.1	5.8	38.5	-0.21	-0.37	106.0	106.9	6.7	NSPS CAI		
CMEW0044	12/23/13 8:17	28.8	23.9	6.8	40.5	-0.13	-0.34	102.7	104.2	5.4	NSPS CAI		
CMEW0044	12/26/13 12:24	37.0	29.2	3.9	29.9	-0.10	-0.11	105.7	106.4	5.6	NSPS CAI		7
CMEW0044 had an oxygen exceedance detected on 12/19/2013. The well was adjusted and re-monitored on 12/23/2013, but the well remained in exceedance. The well was adjusted and re-monitored on 12/26/2013, and no further oxygen exceedance was detected.													
CMEW0054	12/19/13 13:09	55.4	40.3	0.1	4.2	0.07	-0.09	119.4	119.8	9.4	***NSPS CAI;*** INCREASED FLOW VACUUM		
CMEW0054	12/19/13 13:09	55.4	40.3	0.1	4.2	-	-0.09	119.4	119.8	9.4	***NSPS CAI;*** INCREASED FLOW VACUUM		<1
CMEW0054 had a pressure exceedance detected on 12/19/2013. The well was adjusted on that same day, and the adjusted pressure reading indicated no further pressure exceedance.													

- One reading's values displayed twice to show compliance per adjusted reading's values.

NSPS/CAI = New Source Performance Standard/Correction Action Initiated

Comments in ***bold italic*** provided by Cornerstone.

CH_4 = Methane CO_2 = Carbon Dioxide O_2 = Oxygen Bal. = Balance Gas in. W.C. = Inches in water column HOV = Higher Operating Value scfm = standard cubic feet per minute % = Percent °F = degrees Fahrenheit

APPENDIX C

CONTROL DEVICE DOWNTIME RECORDS

Downtime Events Greater than One Hour
Reporting Period July 1, 2013 through December 31, 2013

DATE(S) OF EVENT	DURATION OF EVENT (HOURS)	EQUIPMENT AFFECTED	DESCRIPTION OF DOWNTIME
7/29/2013-7/30/2013	15.36	Flare	The flare shutdown due to power outage caused by tropical storm.
10/10/2013	5.81	Flare	The flare was shutdown to allow for quarterly flare maintenance.
10/16/2013-10/17/2013	20.72	Flare	The flare shutdown due to accidental triggering of emergency stop button. Flare was inspected prior to starting up.
11/14/2013	2.08	Flare	Flare shutdown due to low stack temperature.

APPENDIX D

QUARTERLY SURFACE EMISSIONS MONITORING REPORTS