

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

FCE Summary Report

Facility : PINE TREE ACRES, INC.	SRN : N5984
Location : 36600 29 MILE RD.	District : Southeast Michigan
	County : MACOMB
City : LENOX State: MI Zip Code : 48048	Compliance Status : Non Compliance
Source Class : MAJOR	Staff : Rebecca Loftus
FCE Begin Date : 08/7/14	FCE Completion Date : 8/7/2015
Comments : See also N8004 Sumpter Energy Associates. These two SRNs make up one stationary source.	

List of Partial Compliance Evaluations :

Activity Date	Activity Type	Compliance Status	Comments
08/07/2015	Scheduled Inspection	Non Compliance	Annual Compliance Inspection; See also SRN: N8004 - Sumpter Energy
04/30/2015	Malfunction Abatement Plan	Compliance	Per PTI #160-14, Waste Management provided two revised Malfunction Abatement Plans for the Hydrogen Sulfide removal systems and the Engine Plant (see file for Plans). Plans reviewed by R. Loftus
04/23/2015	MAERS	Compliance	MAERS Report: Audit Complete; no changes made. See notes in file and the MAERS database. Reviewed by R. Loftus
04/21/2015	Stack Test	Compliance	Certification for Air Emissions Test Report associated with compliance testing of emission units FGICENGINES: All eight engines were tested on February 9-12, 2014, for NOx, CO, and NMOC to demonstrate compliance with the NSPS and permit limits. Based on the test report and data received, all eight engines were in compliance with the permit limits during the test. Report reviewed by R. Loftus

Activity Date	Activity Type	Compliance Status	Comments
03/30/2015	ROP SEMI 2 CERT	Compliance	Semi Annual Report , July-Dec 2014: For this reporting period, the facility reported one deviation (a total of 18 wells) The deviation was for multiple wells that had oxygen, pressure, and/or temperature variances. In response, PTA requested to decommission some wells, requested alternate timelines/operating values, and/or achieved compliance through well tuning, re-drilling, and additional construction. Report reviewed by R. Loftus
03/23/2015	ROP Other	Compliance	MAERS ROP Certification - received on time. Reviewed by R. Loftus
03/20/2015	ROP Annual Cert	Compliance	2014 Annual Report: For this reporting period, the facility reported one deviation in each half of the year. The deviations were for multiple wells: Jan-June 2014 had 26 wells, and July-Dec 2014 had 18 wells. The report indicates each well had oxygen, pressure, and/or temperature variances. In response, PTA requested to decommission some wells, requested alternate timelines/operating values, and/or achieved compliance through well tuning, re-drilling, and additional construction. Report reviewed by R. Loftus

Activity Date	Activity Type	Compliance Status	Comments
03/20/2015	MACT (Part 63)	Compliance	<p>Semi-annual SSM Report, July 1, 2014 – December 31, 2014: For this reporting period there were 47 start-up events, 12 shutdown events, and 15 malfunction events. Attachment #2 of the SSM report lists the date, duration, and description of all the malfunction events which occurred during this reporting period. The actions taken in response to these events were consistent with the procedures listed in the SSM Plan and no revisions to the SSM Plan were made.</p> <p>For 40 CFR Part 63 Subpart ZZZZ: PTA report LFG is the sole fuel used in the engines, fuel flow was: 1,137,838MCF, heating value: 507Btu/hr, and no know problems with the fuel flow meters.</p> <p>Report reviewed by R. Loftus.</p>

Activity Date	Activity Type	Compliance Status	Comments
03/20/2015	NSPS (Part 60)	Compliance	<p>Semi-annual NSPS Report; July 1, 2014 - December 30, 2014: The facility properly documented instances in which 18 wells had temperature, oxygen, and pressure exceedances. In the five instances in which the exceedance could not be corrected within 15 days, the facility requested higher temperature operating variances, alternative timelines, and/or that certain wells be decommissioned; additional construction to expand the well field is occurred in August and December. Attachment #2 of the NSPS report provides a detailed account of the duration of each wellhead exceedance. There were no instances during the reporting period in which all the control devices (Treatment System, two enclosed Flares, two back-up flares, and a LF Gas to Energy Plant) were simultaneously not operating for longer than 1 hour in duration. There were no instances in which the gas collection system was down for more than 5 days. The 3rd quarter methane scan showed no locations initially exceeding 500ppm. For the 4th quarter, three locations at the landfill that initially exceeded 500ppm methane (1200ppm, 1200ppm, and 2500ppm-near wells EW152 and EW222). After taken remedial actions, the 10 day check showed the concentrations at 150ppm, 100 pmm, and 150ppm; and after 30days: 80ppm, 6.5ppm, 7ppm. Based on the results these were successfully remediated by PTA. PTA installed 21 new wells and added associated vacuum laterals in cells 19-20 during this reporting period. Report reviewed by R. Loftus.</p>
01/22/2015	ROP Other	Compliance	<p>NSPS Test Plan for landfill gas fired IC engines (FGICENGINES). Stack test is scheduled to occur February 9-13, 2015. Plan reviewed by R. Loftus.</p>

Activity Date	Activity Type	Compliance Status	Comments
12/30/2014	ROP Other	Compliance	NSPS 40 CFR Part 60 Subpart WWW: Variance request for wells HC422 and HC433 (see file for details). The request was reviewed and a response was sent to PTA by R. Loftus.
09/26/2014	MACT (Part 63)	Compliance	Semi-annual SSM Report, January 1, 2014 – June 30, 2014: For this reporting period there were 59 start-up events, 33 shutdown events, and 6 malfunction events. Attachment #2 of the SSM report lists the date, duration, and description of all the malfunction events which occurred during this reporting period. The actions taken in response to these events were consistent with the procedures listed in the SSM Plan and no revisions to the SSM Plan were made. Report reviewed by R. Loftus.
09/26/2014	ROP Semi 1 Cert	Compliance	Semi-Annual, January 1, 2014 – June 30, 2014: For this reporting period, the facility reported one deviation. The deviation was for multiple wells which had oxygen, pressure, and/or temperature variances. In response, PTA requested to decommission some wells, requested alternate timelines/operating values, and/or achieved compliance through well tuning, re-drilling, and additional construction. Report reviewed by R. Loftus

Activity Date	Activity Type	Compliance Status	Comments
09/26/2014	NSPS (Part 60)	Compliance	<p>Semi-annual NSPS Report: The facility properly documented instances in which 26 wells had temperature, oxygen, and pressure exceedances. In the seven instances (out of the 26 wells) in which the exceedance could not be corrected within 15 days, the facility requested higher temperature operating variances, alternative timelines, and/or that certain wells be decommissioned; additional construction to expand/repair the well field is also planned for the 3rd and 4th quarters. Attachment #2 of the NSPS report provides a detailed account of the duration of each wellhead exceedance. There were no instances during the reporting period in which all the control devices (Treatment System, two enclosed Flares, two back-up flares, and a LF Gas to Energy Plant) were simultaneously not operating for longer than 1 hour in duration. There were no instances in which the gas collection system was down for more than 5 days. The 1st and 2nd quarterly scans showed no locations at the landfill that initially exceeded 500ppm methane. PTA installed 12 new wells and added associated vacuum laterals during this reporting period. Report reviewed by R. Loftus.</p>

Name: Rebecca J. [Signature] Date: 9/14/15

Supervisor: CTE