FORTISTAR Methane Group

Arbor Hills Energy LLC 10611 West 5 Mile Road

Northville, Michigan 48167 Tel. (248) 305-7774 + Fax. (248) 305-7879



September 30, 2015

Ms. Diane Kavanaugh Vetort Air Quality Division Michigan Department of Environmental Quality 301 East Lewis B. Glick Highway Jackson, MI 49201

Subject: Response to Violation Notice issued September 11, 2015 Arbor Hills Energy LLC ROP No.: N2688-2011

Dear Ms. Kavanaugh Vetort;

We are in receipt of the above referenced Violation Notice regarding results of SOx emissions recorded during the source test of EUTURBINE1-S3 (EGT-1) and the associated EUDUCTBURNER1-S3 and EUTURBINE3-S3 (EGT-3) and the associated EUDUCTBURNER3-S3 conducted on March 10th and 11th, 2015. The Violation Notice states that the emission results for SO₂ in pounds per hour, as calculated by the Michigan DEQ, were found to be in excess of the current permitted limits.

As we have stated in earlier correspondence, we question the accuracy of Method 6C for measuring emissions from turbines. Although the benefit of Method 6C is that effluent concentration and values are available on a real-time basis, the analyzers are quick to fail in the field with the photo multiplier tube and associated components. Method 6C has a lot of variability in the calibration gases, calibrations, system bias, etc. that can add uncertainty and variability to the results. Oxygen, water vapor, nitrogen etc. can provide interference that can cause skewing of results obtained. Fuel gas analysis provides about 100 - 1,000 times better detection limits versus Method 6C since fuel gas analysis has detection limits in ppb versus ppm limits in Method 6C. The preference of fuel gas analysis versus Method 6C is also evident in the NSPS Subpart KKKK regulation which calls for a CEMS for NOx analysis but requires use of ASTM fuel gas analytical methods for sulfur / total sulfur in the fuel gas versus SO₂ in the exhaust gas. Most state agencies that we have worked with and all source test vendors we have spoken to recognize fuel gas analyses performed on the inlet gas as being more true and accurate versus Method 6C in the exhaust gas. Michigan DEQ also acknowledged the preference of fuel gas analysis in the past years as all our source testing has been conducted using this method. We have not relied on Method 6C to demonstrate compliance.

The inaccuracy of Method 6C can be demonstrated as follows:

The average SO2 ppm measured for Turbine 1 with Duct Burner operation was 21.97 ppm.

- Measured SOx lb/hr = (SO2 ppm * DSCFM (Stack) * MW SO₂ * 60min/hr) / (385scf/mol *1,000,000)
 - = (21.97 ppm * 20,800 * 64.06 lbmol * 60min/hr) / (385scf/mol*1,000,000)

= 4.56 lb/hr SO₂

Due to preservation of mass of sulfur during the combustion process, this 4.86 lb/hr SO2 at the stack would equate to the amount of sulfur as H2S in the raw landfill gas (LFG).

 $= (SO_2 lb/hr * 10^6) / (SCFH (inlet) * ((64 lb/lbmol) / (385 scf/lbmol)))$ H2S ppm in raw LFG

 $= (4.56 \text{ lb/hr} * 10^6) / (97,800 \text{ SCFH} (inlet) * (64 \text{ lb/lbmol}) / (385 \text{scf/lbmol}))$

= 280.48 ppm

However on March 10th and March 11th, a reading of 190 ppm and 195 ppm, respectively, were recorded using the Draeger Tube method. The manufacturer of these monitoring devices states that the tubes are extremely accurate if the analysis is done before the device expires. The dates of the expiration of the tubes were listed on each of the H₂S monitoring log and was November 2015. Expected SOx lb/hr

= H₂S ppm * 10⁻⁶ * (SCFH (inlet) * (64 lb/lbmol) / (385 scf/lbmol))

- 195 ppm * 10⁻⁶ * (97,800 SCFH (inlet) * (64 lb/lbmol) / (385 scf/lbmol)) = 3.17 lb/hr

Expected SO₂ ppm = $(SO_2 lb/hr * (385*1,000,000)) / (DSCFM (Stack) * MW SO2 * 60min/hr)$ = (3.17 lb/hr * (385*1,000,000)) / (20,800 * 64.06 * 60)= 15.26 ppm

Therefore, there is a 30% error differential from the measured value at the source test using a questionable method 6C versus the calculated value based on draeger readings taken on the day of the source test. Please note that SOx emissions are always calculated as above for permit applications.

Arbor Hills Energy LLC contracted Jet-Care International on May 11, 2015 to perform a fuel analysis to determine the constituents within the landfill gas. This analysis further demonstrates that the expected H₂S ppm, calculated from the measured SOx ppm at the source test, is inconsistent with what is found in the landfill gas. The analysis found that the total sulfur content of the landfill gas was 125.76 ppm (see attached report). Using this analysis coupled with the observed flow rate at the source test, Arbor Hills Energy LLC is within the emission limits for SO₂ lb/hr set by the permit, as shown in the calculation below. Fuel Analysis, SOx lb/hr = H₂S ppm * 10⁻⁶ * (SCFH (inlet) * (64 lb/lbmol) / (385 scf/lbmol)) = 125.76 ppm * 10⁻⁶ * (97,800 SCFII (inlet) * (64 lb/lbmol) / (385 scf/lbmol))

= 125.76 ppm * 10^{-6} * (97,800 SCFII (inlet) * (64 lb/lbmol) / (385 scf/lbmol)) = 2.04 lb/hr

Arbor Hills Energy would like to reiterate that the H_2S concentration in the landfill gas is subject to the type of waste disposed of in the landfill, which is beyond our control as we do not own or operate the landfill. Since no additional sulfur is created as a result of combustion in the turbines, the quantity of total sulfur compounds in the landfill gas is emitted as SOx in the exhaust. In other words, this criteria pollutant is not created by the process occurring at Arbor Hills Energy LLC., rather it is a pass-through of pollutant already in landfill gas resulting from decomposition of the type of trash accepted into the landfill by the landfill owner.

In summary, as SOx is not created due to the combustion of landfill gas in our turbines and is rather a byproduct of total sulfur in the raw landfill gas that we have no control over. Based on general industry and regulatory agency accepted practice, we request that the Michigan DEQ continue to rely on Fuel Analysis as in the past to document compliance of the turbines with the SOx emission limit.

As required by the violation notice, please find attached the 12 month rolling SO2 emission calculations for each unit at Arbor Hills Energy LLC through August 2015. If you have any questions, please contact Suparna Chakladar at your convenience at (951)-833-4153.

Sincerely.

Anthony J. Falbo Senior Vice President - Operations FORTISTAR Methane Group Arbor Hills Energy LLC

Enclosures

cc: Tom Maza, AQD Technical Programs Unit Scott Miller, MDEQ Suparna Chakladar, FMG



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY JACKSON DISTRICT OFFICE



DAN WYANT DIRECTOR

September 11, 2015

<u>CERTIFIED MAIL -- 7010 0290 0000 3734 2477</u> <u>RETURN RECEIPT REQUESTED</u>

Mr. Anthony J. Falbo, Senior Vice President -	Operations
FORTISTAR Methane Group	• •
Arbor Hills Energy, LLC	
5087 Junction Road	
Lockport, NY 14094	SRN

By_____

SRN: N2688, Washtenaw County

Dear Mr. Falbo:

VIOLATION NOTICE

On May 13, 2015, the Department of Environmental Quality (DEQ), Air Quality Division (AQD), received a performance test results report from Arbor Hills Energy, LLC (AHE) located at 10611 West 5 Mile Road, Northville, Michigan. The purpose of the performance testing conducted on March 10 and 11, 2015, was to determine AHE EUTURBINE1-S3 and EUTURBINE3-S3 (European Gas Turbines) compliance with the requirements of the federal Clean Air Act; Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); the administrative rules and the conditions of Renewable Operating Permit (ROP) number MI-ROP-N2688-2011 and Consent Order AQD number 16-2015.

During the AQD's review of the May 13, test results report, staff observed the following:

Process Description	Rule/Permit Condition Violated	Comments
EUTURBINE1-S3	ROP, FGTURBINES-S3, Condition I. SO2 limit	Test results indicate SO2 pounds per hour (lbs/hr)
EUTURBINE1-S3 +	SO2 limit above added to	emissions exceeded the limit for Turbine1 (2.9
EUDUCTBURNER1-S3	FGDUCTBURNERS-S3, Condition I. SO2 limit	lbs/hr) & Turbine1 + Ductburner1 (3.2 lbs/hr)
EUTURBINE3-S3	ROP, FGTURBINES-S3, Condition I. SO2 limit	Test results indicate SO2 lbs/hr emissions exceeded the limit for Turbine3 (2.9
EUTURBINE3-S3 + EUDUCTBURNER3-S3	SO2 limit above added to FGDUCTBURNERS-S3, Condition I. SO2 limit	lbs/hr) & Turbine3 + Ductburner3 (3.2 lbs/hr)

The AHE conducted testing of the Turbine alone and Turbine plus Ductburner for each EUTURBINE1-S3 and EUTURBINE3-S3. The AQD calculated the resulting SO2 emissions based on the EPA Reference Methods proposed in the AHE Test protocol. The AQD calculated SO2 emissions in pounds per hour differ from those calculated by AHE and submitted in the May 13, Test Results Report. The AQD calculated SO2 pounds per hour emissions indicate AHE EUTURBINE1-S3 and EUTURBINE3-S3 exceeded the permitted emission limits. The AQD believes the Company's calculations are in error and the correct emission results are presented below.

	T1 + D-	T3 + D-	T + D-	T1 emitted	T3 emitted	Turbine
	burner	burner	burner			limit
	emitted	emitted	limit			
SO2	6.2	5.0	3.2	4.6	4.8	2.9
pounds						
per hour:						

Please be advised that the AQD will use the test data in evaluating AHE's compliance with their permitted annual SO2 emission limit (12 month rolling time period as determined at the end of each calendar month). As part of the written response (below), please submit the 12 month rolling time period SO2 emission calculations and supporting records for EUTURBINE1, EUTURBINE3 and the associated ductburners (as applicable) for month ending August 2015.

Please initiate actions necessary to correct the cited violations and submit a written response to this Violation Notice by October 2, 2015. The written response should include: the dates the violations occurred; an explanation of the causes and duration of the violations; whether the violations are ongoing; a summary of the actions that have been taken and are proposed to be taken to correct the violations and the dates by which these actions will take place; and what steps are being taken to prevent a reoccurrence.

If AHE believes the above observations or statements are inaccurate or do not constitute violations of the applicable legal requirements cited, please provide appropriate factual information to explain your position.

Thank you for your attention to resolving the violations cited above. If you have any questions regarding the violations or the actions necessary to bring this facility into compliance, please contact me at the number listed below.

Sincerely,

Diane Karanfi Vetort

Diane Kavanaugh Vétort Senior Environmental Quality Analyst Air Quality Division 517-780-7864

cc: Mr. Scott Miller, DEQ

cc/via e-mail: Ms. Suparna Chakladar, Vice President FORTISTAR Methane Group Ms. Lynn Fiedler, DEQ

Ms. Mary Ann Dolehanty, DEQ

Ms. Teresa Seidel, DEQ

Mr. Thomas Hess, DEQ

Ms. Karen Kajiya-Mills, DEQ

Mr. Thomas Maza, DEQ

12 - Month SOx Rolling Emissions based on Fuel Analysis

<u>Arbor Hills Facility</u> SOx Emission Compliance with Fuel Analysis May 11, 2015 Sulfur = 125.76 ppm (Tons Per Year (TPY) 12-Month Averages Rolled Monthly)

= Value Deviates from Permit Limit

GT1 (Typhoon) EUTURBINE 1-S3				
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	1,683.0	0.8	
February	2014	1,471.8	0.7	
March	2014	1,668.7	0.8	
April	2014	1,494.2	0.7	
May	2014	1,392.8	0.7	
June	2014	1,325,3	0.7	12.5 TPY
July	2014	1,494.4	0.7	(12-Month Limit)
August	2014	1,064.2	0.5	
September	2014	1,359.9	0.7	
October	2014	1,521.7	0.8	and the second second
November	2014	946,2	0.5	
December	2014	1,663.8	0.8	
January	2015	1,491.6	0.7	8,4
February	2015	1,311.9	0.7	8,4
March	2015	1,485,1	0.7	8,3
April	2015	1,210.3	0.6	8.1
May	2015	943,0	0,5	7.9
June	2015	1,272.9	0.6	7.9
July	2015	1,423.6	0.7	7,8
August	2015	1,513.2	0.8	8.1
September	2015	0,0	0.0	7.4
October	2015	0.0	0.0	6.6
November	2015	0.0	0.0	6,2
December	2015	0.0	0.0	5.3

	EUTURBINE 2-S3						
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)			
lanuary	2014	1,788.9	0.9				
ebruary	2014	1,594.3	0,8				
March	2014	1,735.2	0.9				
pril	2014	1,616,2	0.8	a de la companya de l			
Aay	2014	1,566.9	0.8				
une	2014	1,472.5	0.7	12.5 TPY			
luty	2014	1,634.3	0.8	(12-Month Limit)			
ugust	2014	1,161.9	0.6				
September	2014	1,502,6	0.8				
October	2014	1,628.6	0.8				
lovember	2014	1,284.0	0,6				
December	2014	1,673.9	0.8				
anuary	2015	1,782,4	0,9	9,3			
ebruary	2015	1.619.0	0.8	9,3			
Aarch	2015	1,557,5	0.8	9,2			
pril	2015	1,215.1	0.6	9.0			
Aay	2015	1,780,7	0.9	9,2			
une	2015	1.579.1	0.8	9.2			
uly	2015	1,689.7	0.8	9,2			
lugust	2015	1,842.7	0.9	9,6			
September	2015	0.0	0.0	8.8			
October	2015	0.0	0.0	8.0			
lovember	2015	0,0	0.0	7.4			
December	2015	0.0	0.0	6.5			

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GT3 (Typhoon) EUTURBINE 3-S3				
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	1,761.7	0.9	
February	2014	1,555,5	0.8	
March	2014	1,697.1	0.8	
April	2014	1,556.0	0.8	
May	2014	1,537.8	0.8	
June	2014	1,460.2	0.7	12,5 TPY
July	2014	1,589.5	0.8	(12-Month Limit)
August	2014	1,064.8	0.5	
September	2014	1,470.9	0.7	le servición de la
October	2014	1,607.6	0.8	
November	2014	1,455.7	0.7	
December	2014	1,686.0	0,8	
January	2015	1,601.4	0.8	9,1
February	2015	1,462.4	0.7	9,1
March	2015	1,556,5	0,8	9,0
April	2015	1,403.3	0.7	8,9
May	2015	1,441.2	0.7	8.9
June	2015	1,290.6	0.6	8.8
July	2015	1,366,2	0.7	8,7
August	2015	1,601.5	0.8	9.0
September	2015	0.0	0.0	8.2
October	2015	0.0	0.0	7.4
November	2015	0.0	0.0	6.7
December	2015	0.0	0.0	5.9

GT4 (Taurus) EUTURBINE 4-S3				
Month	Year	SOx Monthly Mass Emissions (Ibs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	172.2	0.1	
February	2014	161.4	0.1	
March	2014	226.6	0.1	
April	2014	234,5	0.1	
May	2014	249.8	0.1	TPY
June	2014	231.1	0.1	(12-Month Limit)
July	2014	234.3	0.1	Not Applicable
August	2014	186.5	0.1	(Source Test)
September	2014	220,0	0.1	
October	2014	248.6	0.1	
November	2014	249,8	0.1	
December	2014	138,8	0.1	
January	2015	621,5	0,3	1.5
February	2015	633.7	0.3	1.7
March	2015	779.6	0.4	2,0
April	2015	967.3	0.5	2.4
May	2015	1,051.7	0,5	2.8
June	2015	1,005.4	0.5	3.2
July	2015	1,210.4	0.6	3.7
August	2015	609.9	0.3	3.9
September	2015	0,0	0.0	3,8
October	2015	0.0	0.0	3.6
November	2015	0,0	0.0	3,5
December	2015	0.0	0.0	3,4

EUDUCTBURNER 1-S3					
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)	
January	2014	106,9	0.1		
February	2014	48.1	0.0		
March	2014	92.2	0.0		
April	2014	76.5	0.0		
May	2014	83.7	0.0		
June	2014	100,5	0.1	1.5 TPY	
July	2014	63,8	0.0	(12-Month Limit)	
August	2014	59.2	0.0		
September	2014	95.6	0.0		
October	2014	103.6	0.1		
November	2014	58.7	0.0		
December	2014	101.4	0,1		
January	2015	317.0	0.2	0.6	
February	2015	224,7	0,1	0,7	
March	2015	254.5	0.1	0.8	
April	2015	408,6	0.2	0,9	
May	2015	124.8	0.1	1.0	
June	2015	122,6	0.1	1.0	
July	2015	50.6	0.0	1.0	
August	2015	0.0	0.0	0.9	
September	2015	0.0	0.0	0.9	
October	2015	0,0	0.0	0,8	
November	2015	0.0	0,0	0.8	
December	2015	0,0	0,0	0,8	

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Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	121,3	0.1	
February	2014	117.8	0.1	
March	2014	95.4	0.0	and a start from a
April	2014	78.7	0.0	
May	2014	118.7	0.1	
June	2014	113.6	0.1	1.5 TPY
July	2014	58.1	0.0	(12-Month Limit)
August	2014	50.0	0.0	
September	2014	94.8	0.0	
October	2014	108.7	0.1	
November	2014	78.3	0.0	and the second second
December	2014	105.4	0,1	
January	2015	99,0	0.0	0.6
February	2015	74,9	0.0	0,5
March	2015	64.7	0.0	0.5
April	2015	10,5	0,0	0,5
May	2015	77.7	0.0	0.5
June	2015	29.1	0,0	0.4
July	2015	17.9	0.0	0.4
August	2015	44.2	0.0	0.4
September	2015	0.0	0.0	0.4
October	2015	0.0	0,0	0.3
November	2015	0.0	0.0	0.3
December	2015	0.0	0.0	0.2

Duct Burner 3 EUDUCTBURNER 3-S3					
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)	
January	2014	118,6	0,1	Carlos Constanting and	
February	2014	119.8	0.1		
March	2014	101.7	0,1		
April	2014	89.6	0.0		
May	2014	99,5	0.0		
June	2014	110.2	0,1	1.5 TPY	
July	2014	61.4	0.0	(12-Month Limit)	
August	2014	55.8	0.0		
September	2014	97.9	0.0		
October	2014	111.6	0.1		
November	2014	87.7	0.0		
December	2014	107.5	0.1		
January	2015	333,9	0.2	0.7	
February	2015	240.8	0.1	0.7	
March	2015	243.6	0.1	0.8	
April	2015	377.9	0,2	1.0	
May	2015	275.3	0.1	1.1	
June	2015	218.2	0.1	1.1	
July	2015	103.9	0.1	1.1	
August	2015	165.9	0.1	1.2	
September	2015	0.0	0.0	1.1	
October	2015	0.0	0.0	1.1	
November	2015	0.0	0,0	1.0	
December	2015	0.0	0.0	1.0	

Flare A				
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	0.4	0.0	
February	2014	0.2	0,0	
March	2014	0.6	0.0	
April	2014	0,7	0,0	
May	2014	4.6	0,0	
June	2014	17.1	0.0	1 IPY
July	2014	0.0	0.0	(12-Month Limit)
August	2014	96.2	0.0	Not Applicable
September	2014	2,2	0,0	Landfill Responsible
October	2014	0.0	0.0	
November	2014	0.0	0.0	
December	2014	0.0	0.0	
January	2015	0,0	0,0	0,1
February	2015	0.0	0.0	0.1
March	2015	0,0	0.0	0,1
April	2015	5.7	0.0	0.1
May	2015	17.4	0,0	0.1
June	2015	22.8	0.0	0.1
July	2015	0,0	0,0	0.1
August	2015	0.0	0.0	0.0
September	2015	0.0	0.0	0.0
October	2015	0.0	0.0	0.0
November	2015	0.0	0.0	0.0
December	2015	0,0	0,0	0,0

Flare B					
Month	Year	SOx Monthly Mass Emissions (Ibs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)	
January	2014	0.3	0.0	Service Statistics	
February	2014	8.7	0,0		
March	2014	2.7	0.0		
April	2014	4.5	0.0	and the second second	
May	2014	29,4	0,0	7 701	
June	2014	23.2	0.0	זייו ך	
July	2014	75.5	0.0	(12-Month Limit)	
August	2014	154.7	0.1	Not Applicable	
September	2014	23,4	0,0	Canuna Responsible	
October	2014	10.5	0.0		
November	2014	230,3	0.1	and the second second	
December	2014	60.3	0.0		
January	2015	39,7	0.0	0.3	
February	2015	11.5	0.0	0.3	
March	2015	33,8	0,0	0.3	
April	2015	39.7	0.0	0.4	
May	2015	41.4	0.0	0,4	
June	2015	18,5	0.0	0.4	
July	2015	33,1	0,0	0.3	
August	2015	2.8	0.0	0.3	
September	2015	0.0	0.0	0.3	
October	2015	0.0	0.0	0,3	
November	2015	0.0	0.0	0.1	
December	2015	0.0	0.0	0.1	

Facility Total					
Month	Year	SOx Monthly Mass Emissions (ibs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)	
January	2014	5,753,3	2.9		
February	2014	5,077.7	2,5	10.00	
March	2014	5,620.2	2.8	Sector Sector	
April	2014	5,150,8	2,6		
May	2014	5,083,2	2,5	TPY	
June	2014	4,853.5	2.4	(12-Month Limit)	
July	2014	5,211.4	2,6	Not Applicable	
August	2014	3,893.2	1.9	Information Only	
September	2014	4,867.3	2,4	100 C	
October	2014	5,341.0	2.7		
November	2014	4,390.8	2.2	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
December	2014	5,537.1	2.8	22.53	
January	2015	6,286.3	3.1	30.7	
February	2015	5,578.9	2.8	30,9	
March	2015	5,975,3	3,0	31.1	
April	2015	5,638.4	2.8	31.3	
May	2015	5,753.1	2,9	31.7	
June	2015	5,559.3	2.8	32.0	
July	2015	5,895.4	2,9	32,4	
August	2015	5,780.2	2.9	33.3	
September	2015	0.0	0.0	30.9	
October	2015	0,0	0,0	28,2	
November	2015	0.0	0.0	26.0	
December	2015	0.0	0.0	21.2	

12 - Month SOx Rolling Emissions based on contested Method 6C results

Arbor Hills Facility SOx Emission Compliance with Contested Method 6C Emission Factors (Tons Per Year (TPY) 12-Month Averages Rolled Monthly)

= Value Deviates from Permit Limit

GT1 (Typhoon) EUTURBINE 1-S3				
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	1,683.0	0.8	
February	2014	1,471.8	0.7	
March	2014	1,668.7	0.8	
April	2014	1,494.2	0.7	
May	2014	1,392.8	0.7	
June	2014	1,325.3	0.7	12.5 TPY
July	2014	1,494.4	0.7	(12-Month Limit)
August	2014	1,064.2	0.5	
September	2014	1,359.9	0.7	
October	2014	1,521.7	0.8	
November	2014	946.2	0,5	1.1
December	2014	1,663.8	0.8	
January	2015	3,314,6	1.7	9,4
February	2015	2,915.2	1.5	10.1
March	2015	3,300,3	1.7	10,9
April	2015	2,689.6	1.3	11.5
May	2015	2,095.4	1.0	11.8
June	2015	2,828.8	1.4	12.6
July	2015	3,163,7	1.6	18.4
August	2015	3,362.7	1.7	14.6
September	2015	0.0	0.0	18.9
October	2015	0.0	0.0	10,1
November	2015	0.0	0.0	12,7
Deservices	0045			11.0

GT2 (Typhoon) EUTURBINE 2-\$3				
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	1,788.9	0.9	
February	2014	1,594,3	0.8	
March	2014	1,735.2	0.9	
April	2014	1,616.2	0,8	
May	2014	1,566.9	0.8	1
June	2014	1,472,5	0.7	12.5 TPY
July	2014	1,634.3	0.8	(12-Month Limit)
August	2014	1,161.9	0.6	
September	2014	1,502,6	0.8	
October	2014	1,628.6	0.8	
November	2014	1,284.0	0.6	
December	2014	1,673.9	0,8	
January	2015	1,782.4	0,9	9,3
February	2015	1,619.0	0.8	9,3
March	2015	1,557.5	0,8	9,2
April	2015	1,215.1	0.6	9.0
May	2015	1,780.7	0,9	9,2
June	2015	1,579.1	0.8	9.2
July	2015	1,689.7	0,8	9,2
August	2015	1,842.7	0.9	9.6
September	2015	0.0	0.0	8.8
October	2015	0.0	0.0	8.0
November	2015	0.0	0.0	7.4
December	2015	0.0	0.0	6.5

GT3 (Typhoon) EUTURBINE 3-S3				
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	1,761.7	0,9	
February	2014	1,555,5	0.8	
March	2014	1,697.1	0.8	
April	2014	1,556.0	0.8	
May	2014	1,537.8	0.8	
June	2014	1,460,2	0.7	12.5 TPY
July	2014	1,589.5	0.8	(12-Month Limit)
August	2014	1,064.8	0.5	
September	2014	1,470.9	0.7	
October	2014	1,607.6	0.8	
November	2014	1,455.7	0.7	
December	2014	1,686.0	0.8	
January	2015	3,558,6	1.8	10.1
February	2015	3,249,9	1.6	11.0
March	2015	3,458,9	1.7	11.8
April	2015	3,118.4	1.6	12.6
May	2015	3,202.6	1.6	18,5
June	2015	2,868.1	1.4	14.2
July	2015	3,035,9	1.5	14.9
August	2015	3,558.9	1.8	16.1
September	2015	0.0	0.0	16,4
October	2015	0.0	0.0	14.6
November	2015	0,0	0,0	13.9
December	2015	0.0	0.0	13.0

GT4 (Taurus) EUTURBINE 4-S3				
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	172.2	0.1	N. A. A.
February	2014	161.4	0.1	
March	2014	226,6	0.1	
April	2014	234,5	0.1	
May	2014	249.8	0.1	TPY
June	2014	231.1	0,1	(12-Month Limit)
July	2014	234.3	0.1	Not Applicable
August	2014	186.5	0.1	(Source Test)
September	2014	220,0	0,1	
October ·	2014	248,6	0.1	
November	2014	249,8	0.1	
December	2014	138,8	0.1	
January	2015	621,5	0,3	1.5
February	2015	633.7	0,3	1.7
March	2015	779,6	0,4	2.0
April	2015	967.3	0.5	2.4
May	2015	1,051,7	0.5	2,8
June	2015	1,005.4	0.5	3.2
July	2015	1,210.4	0.6	3.7
August	2015	609,9	0.3	3.9
September	2015	0.0	0.0	3.8
October	2015	0.0	0.0	3.6
November	2015	0,0	0.0	3,5
December	2015	0.0	0.0	3.4

EUDUCTBURNER 1-S3				
Month	Year	SOx Monthly Mass Emissions (Ibs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	106,9	0,1	
February	2014	48.1	0.0	
March	2014	92.2	0.0	
April	2014	76.5	0.0	
May	2014	83,7	0,0	
June	2014	100,5	0.1	1.5 TPY
July	2014	63.8	0.0	(12-Month Limit)
August	2014	59,2	0,0	
September	2014	95,6	0,0	and the second second
October	2014	103,6	0.1	
November	2014	58.7	0.0	
December	2014	101.4	0,1	Constant and the second
January	2015	915.8	0.5	0.9
February	2015	649.1	0,3	1,2
March	2015	735.1	0.4	1.5
April	2015	1,180,5	0,6	2.1
May	2015	360.4	0.2	2.2
June	2015	354,1	0,2	2,3
July	2015	146.2	0.1	2.4
August	2015	0.0	0.0	2.4
September	2015	0.0	0.0	2.3
October	2015	0,0	0,0	2,3
November	2015	0.0	0,0	2.2
December	2015	0.0	0.0	22

		EUDUCTBL	urner 2 IRNER 2-S3	
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	121,3	0.1	
February	2014	117.8	0.1	
March	2014	95.4	0.0	
April	2014	78.7	0.0	
May	2014	118,7	0,1	
June	2014	113,6	0,1	1.5 TPY
July	2014	58.1	0.0	(12-Month Limit)
August	2014	50.0	0.0	
September	2014	94.8	0.0	and the second second
October	2014	108,7	0,1	
November	2014	78.3	0.0	
December	2014	105.4	0.1	
January	2015	99.0	0.0	0.6
February	2015	74.9	0.0	0,5
March	2015	64.7	0.0	0.5
April	2015	10,5	0.0	0,5
May	2015	77.7	0.0	0.5
June	2015	29,1	0,0	0.4
July	2015	17.9	0.0	0.4
August	2015	44.2	0.0	0,4
September	2015	0.0	0.0	0,4
October	2015	0,0	0,0	0.3
November	2015	0.0	0.0	0.3
December	2015	0.0	0.0	0.2

Duct Burner 3 EUDUCTBURNER 3-S3					
Month	Year	SOx Monthly Mass Emissions (lbs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)	
January	2014	118,6	0,1		
February	2014	119.8	0.1	1	
March	2014	101.7	0.1	Contraction of the second	
April	2014	89.6	0.0		
May	2014	99,5	0,0		
June	2014	110,2	0.1	1.5 TPY (12-Month Limit)	
July	2014	61.4	0.0		
August	2014	55,8	0.0		
September	2014	97.9	0.0		
October	2014	111.6	0,1		
November	2014	87.7	0.0		
December	2014	107,5	0.1		
January	2015	816.1	0.4	0.9	
February	2015	588,5	0,3	1.2	
March	2015	595,5	0.3	1.4	
April	2015	923,7	0.5	4,8	
May	2015	672.9	0.3	2.1	
June	2015	533,3	0,3	2.3	
July	2015	254.0	0.1	. 2.4	
August	2015	405,5	0.2	2,6	
September	2015	0.0	0.0	2.6	
October	2015	0.0	0,0	2,5	
November	2015	0.0	0.0	24	
December	2015	0.0	0.0		

Flare A					
Month	Year	SOx Monthly Mass Emissions (ibs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)	
January	2014	0.4	0,0		
February	2014	0.2	0,0		
March	2014	0.6	0.0		
April	2014	0.7	0.0	Contraction of the	
May	2014	4,6	0,0		
June	2014	17.1	0.0	1 194	
July	2014	0,0	0,0	(12-Month Limit) Not Applicable Landfill Responsible	
August	2014	96.2	0.0		
September	2014	2.2	0,0		
October	2014	0.0	0.0		
November	2014	0,0	0,0		
December	2014	0.0	0.0		
January	2015	0.0	0.0	0,1	
February	2015	0.0	0.0	0.1	
March	2015	0,0	0,0	0.1	
April	2015	5.7	0.0	0.1	
May	2015	17.4	0,0	0,1	
June	2015	22.8	0,0	0.1	
July	2015	0,0	0,0	0.1	
August	2015	0.0	0.0	0.0	
September	2015	0.0	0.0	0,0	
October	2015	0,0	0,0	0.0	
November	2015	0.0	0.0	0.0	
December	2015	0,0	0,0	0,0	

Flare B					
Month	Year	SOx Monthly Mass Emissions (Ibs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)	
January	2014	0.3	0.0		
February	2014	8.7	0.0		
March	2014	2.7	0.0		
April	2014	4.5	0.0		
May	2014	29,4	0.0		
June	2014	23.2	0.0	1 164	
July	2014	75,5	0,0	(12-Month Limit)	
August	2014	154.7	0.1	Not Applicable Landfill Responsible	
September	2014	23.4	0,0		
October	2014	10.5	0.0		
November	2014	230,3	0.1		
December	2014	60,3	0.0		
January	2015	39.7	0.0	0,3	
February	2015	11.5	0.0	0.3	
March	2015	33,8	0.0	0.3	
April	2015	39.7	0.0	0.4	
May	2015	41.4	0.0	0,4	
June	2015	18,5	0.0	0.4	
July	2015	33.1	0.0	0.3	
August	2015	2.8	0.0	0,3	
September	2015	0.0	0.0	0,3	
October	2015	0,0	0.0	0,3	
November	2015	0.0	0.0	0.1	
December	2015	0.0	0.0	0.1	

Facility Total				
Month	Year	SOx Monthly Mass Emissions (ibs/month)	SOx Monthly Mass Emissions (tons/month)	12-Month Rolling Average (tons per year)
January	2014	5,753.3	2.9	
February	2014	5,077.7	2.5	a state of the
March	2014	5,620.2	2.8	
April	2014	5,150.8	2.6	
May	2014	5,083,2	2,5	TPY
June	2014	4,853.5	2.4	(12-Month Limit)
July	2014	5,211.4	2,6	Not Applicable
August	2014	3,893.2	1.9	Information Only
September	2014	4,867.3	2.4	
October	2014	5,341.0	2.7	
November	2014	4,390,8	2.2	
December	2014	5,537.1	2.8	
January	2015	11,147.6	5,6	33,1
February	2015	9,741.9	4.9	35,4
March	2015	10,525,4	5,3	37.9
April	2015	10,150.5	5.1	40.4
May	2015	9,300,3	4.7	42.5
June	2015	9,239.1	4.6	44.7
July	2015	9,550,9	4.8	46.8
August	2015	9,826.7	4.9	49.8
September	2015	0.0	0.0	47.4
October	2015	0,0	0,0	44.7
November	2015	0.0	0.0	42.5
December	204E	0.0	0.0	20.7

Jet-Care International

Date: 14-May-15

Lab Order: C1505038 Ta Project: Arbor Hills Plant Colle Lab ID: C1505038-001A **Limit Qual Unit Analyses Result **Limit Qual Unit SILOXANE SERIES TO-15 Decamethylcyclopentasiloxane-D5 3500 300 ug/m2 Decamethylcyclopentasiloxane-L4 ND 250 ug/m2 Dodecamethylcyclohexasiloxane-D5 ND 1600 ug/m2 Dodecamethylcyclothexasiloxane-L3 ND 1600 ug/m2 Dodecamethylcycloteisioxane-L2 5500 330 ug/m2 Octamethylcycloteirasiloxane-L3 230 190 ug/m2 Octamethylcycloteirasiloxane-L3 230 190 ug/m2 Carbon disulfide 610 120 ug/m2 Carbon disulfide 640 1900 ug/m2 Dimethyl sulfide 9400 1900 ug/m2 <th>ag Number: 1326</th>	ag Number: 1326
Project: Arbor Hills Plant Collect Lab ID: C1505038-001A **Limit Qual Units Analyses Result **Limit Qual Units SILOXANE SERIES TO-15 Decamethylcyclopentasiloxane-D5 3500 300 ug/m3 Decamethylcyclohexasiloxane-D6 ND 1800 ug/m3 Dodecamethylcyclohexasiloxane-D3 440 180 ug/m3 Hexamethylcyclohexasiloxane-D3 440 180 ug/m3 Octamethylcyclotetrasiloxane-D4 3600 240 ug/m3 Octamethylcyclotetrasiloxane-D4 3600 240 ug/m3 Octamethyltrisiloxane-L3 230 190 ug/m3 Carbon disulfide 610 120 ug/m3 Carbon disulfide 850 98 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Ethyl mercaptan 2600 310 ug/m3 Methyl mercaptan 2600 310 ug/m3 1,1,2-Trichloroethane 810	8
Index Index Index Lab ID: C1505038-001A Analyses Result **Limit Qual Units SILOXANE SERIES TO-15 Decamethylcyclopentasiloxane-D5 3500 300 ug/m3 Dedeamethylcyclohexasiloxane-D6 ND 1800 ug/m3 Dodecamethylcyclohexasiloxane-D3 440 180 ug/m3 Dodecamethylcyclotrisiloxane-D3 440 180 ug/m3 Octamethylcyclotetrasiloxane-D4 3600 240 ug/m3 Octamethyltrisiloxane-L3 230 190 ug/m3 Carbon disulfide 610 120 ug/m3 Carbonyl sulfide 9400 1900 ug/m3 Carbonyl sulfide 9400 1900 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Ethyl mercaptan 560 100 ug/m3 Hydrogen Sulfide 110000 6800 ug/m3 1,1,2-Trichloroethane 86 110 J ug/m3 1,1,2-Trichloroethane	ection Date: 5/11/2015
Analyses Result **Limit Qual Unit SILOXANE SERIES TO-15 Decamethylcyclopentasiloxane-D5 3500 300 ug/m3 Decamethylcyclohexasiloxane-D6 ND 1800 ug/m3 Dodecamethylcyclohexasiloxane-D6 ND 1600 ug/m3 Dodecamethylcyclotisiloxane-D3 440 180 ug/m3 Hexamethylcyclotisiloxane-D3 440 180 ug/m3 Octamethylcyclotetrasiloxane-D4 3600 240 ug/m3 Octamethyltrisiloxane-L3 230 190 ug/m3 Trimethyl silanol 21000 8900 ug/m3 SULFURS SERIES BY TO-15 TO-15 1-Propanethiol 340 120 ug/m3 Carbonyl sulfide 610 120 ug/m3 1000 gamma 1000 100 ug/m3 Ethyl mercaptan 560 100 ug/m3 100 ug/m3 Ipdrephyl mercaptan 2600 310 ug/m3 10 ug/m3 Ipdrephyl mercaptan	Matrix: AIR
Analyses Result **Limit Qual Unit SILOXANE SERIES TO-15 Decamethylcyclopentasiloxane-D5 3500 300 ug/m3 Dodecamethylcyclohexasiloxane-D6 ND 1800 ug/m3 Dodecamethylcyclothexasiloxane-D5 ND 1600 ug/m3 Dodecamethylcyclothexasiloxane-D3 440 180 ug/m3 Octamethylcyclotherasiloxane-D3 440 180 ug/m3 Octamethylcyclotherasiloxane-D4 3600 240 ug/m3 Octamethylcyclotetrasiloxane-D4 3600 240 ug/m3 Octamethylcyclotetrasiloxane-D4 3600 240 ug/m3 Ottamethylcyclotetrasiloxane-D4 3600 240 ug/m3 Trimethyl silanol 21000 8900 ug/m3 SULFURS SERIES BY TO-15 TO-15 120 ug/m3 Carbon disulfide 610 120 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Ethyl mercaptan 2600 310 ug/m3 I,1,2,-Tetrachloroethane	
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Octamethylcyclotetrasiloxane-D4 3600 240 ug/m3 Octamethyltrisiloxane-L3 230 190 ug/m3 Trimethyl silanol 21000 8900 ug/m3 SULFURS SERIES BY TO-15 TO-15 1-Propanethiol 340 120 ug/m3 Carbon disulfide 610 120 ug/m3 Carbonyl sulfide 850 98 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Hydrogen Sulfide 110000 6800 ug/m3 Isopropyl mercaptan 2600 310 ug/m3 Methyl mercaptan 1400 200 ug/m3 1,1,2.2-Tetrachloroethane ND 140 ug/m3 1,1,2.2-Tetrachloroethane ND 140 ug/m3 1,1,2.2-Tetrachloroethane ND 140 ug/m3 1,1.2.2-Tetrachloroethane ND 140 ug/m3 1,2,4-Trinethylbenzene 1500 1200 ug/m3 <	3 10 5/12/2015 7:35:00 PM
Octamethyltrisiloxane-L3 230 190 ug/m3 Trimethyl silanol 21000 8900 ug/m3 SULFURS SERIES BY TO-15 TO-15 1-Propanethiol 340 120 ug/m3 Carbon disulfide 610 120 ug/m3 Carbonyl sulfide 850 98 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Ethyl mercaptan 560 100 ug/m3 Isopropyl mercaptan 2600 310 ug/m3 Methyl mercaptan 2600 310 ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2-Trichloroethane ND 110 ug/m3 1,2,4-Trinethylbenzene 1500 1200 ug/m3 1,2-Dichlorobenzene ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2	3 4 5/12/2015 6:55:00 PM
Trimethyl silanol 21000 8900 ug/m3 SULFURS SERIES BY TO-15 TO-15 1-Propanethiol 340 120 ug/m3 Carbon disulfide 610 120 ug/m3 Carbonyl sulfide 850 98 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Ethyl mercaptan 560 100 ug/m3 Isopropyl mercaptan 2600 310 ug/m3 Isopropyl mercaptan 2600 310 ug/m3 Methyl mercaptan 1400 200 ug/m3 1,1,2.2-Tetrachloroethane ND 140 ug/m3 1,1,2.2-Tetrachloroethane ND 110 ug/m3 1,1,2.2-Tetrachloroethane ND 110 ug/m3 1,2,4-Trichloroethane 87 79 J ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3 1,2,4-Trimethylbenzene 15000 1200 ug/m3 <t< td=""><td>3 4 5/12/2015 6:55:00 PM</td></t<>	3 4 5/12/2015 6:55:00 PM
SULFURS SERIES BY TO-15 TO-15 1-Propanethiol 340 120 ug/m3 Carbon disulfide 610 120 ug/m3 Carbonyl sulfide 850 98 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Dimethyl sulfide 9400 1900 ug/m3 Ethyl mercaptan 560 100 ug/m3 Hydrogen Sulfide 110000 6800 ug/m3 Isopropyl mercaptan 2600 310 ug/m3 Methyl mercaptan 1400 200 ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2,2-Tetrachloroethane ND 110 ug/m3 1,1,2,2-Tetrachloroethane ND 110 ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2,2-Tetrachloroethane ND 110 ug/m3 1,2,4-Trichloroethane ND 150 ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3	3 490 5/13/2015 2:38:00 PM
1-Propanethiol 340 120 ug/max Carbon disulfide 610 120 ug/max Carbonyl sulfide 850 98 ug/max Dimethyl sulfide 9400 1900 ug/max Ethyl mercaptan 560 100 ug/max Hydrogen Sulfide 110000 6800 ug/max Isopropyl mercaptan 2600 310 ug/max Methyl mercaptan 2600 310 ug/max VOC'S METHOD TO15 + TIC TO-15 1,1,1-Trichloroethane 86 110 J ug/max 1,1,2,2-Tetrachloroethane ND 140 ug/max 1,1,2,2-Tetrachloroethane ND 110 ug/max 1,1,2-Trichloroethane 210 81 ug/max 1,2,4-Trichloroethane 110 ug/max 1,2,4-Trimethylbenzene 15000 1200 ug/max 1,2-Dichloroethane ND 150 ug/max 1,2-Dichloroethane ND 120 ug/max 1,2-Dichloroethane ND	Analyst: WD
Carbon disulfide 610 120 ug/mit Carbonyl sulfide 850 98 ug/mit Dimethyl sulfide 9400 1900 ug/mit Ethyl mercaptan 560 100 ug/mit Hydrogen Sulfide 110000 6800 ug/mit Isopropyl mercaptan 2600 310 ug/mit Methyl mercaptan 2600 310 ug/mit VOC'S METHOD TO15 + TIC TO-15 1,1,2,2-Tetrachloroethane ND 1400 ug/mit 1,1,2,2-Tetrachloroethane ND 140 ug/mit 1,1,2,2-Tetrachloroethane ND 110 ug/mit 1,1-Dichloroethane 210 81 ug/mit 1,2,4-Trichloroethane 210 81 ug/mit 1,2,4-Trichlorobenzene ND 150 ug/mit 1,2,2-Dibromoethane ND 120 ug/mit 1,2-Dichloroethane ND 150 ug/mit 1,2-Dichloroethane ND 120 ug/mit 1,2-Dichloroethane ND 120 ug/mit	3 4 5/12/2015 6:55:00 PM
Carbonyl sulfide 850 98 ug/mi Dimethyl sulfide 9400 1900 ug/mi Ethyl mercaptan 560 100 ug/mi Hydrogen Sulfide 110000 6800 ug/mi Isopropyl mercaptan 2600 310 ug/mi Methyl mercaptan 2600 310 ug/mi VOC'S METHOD TO15 + TIC TO-15 To 1,1,2,2-Tetrachloroethane 86 110 J ug/mi 1,1,2,2-Tetrachloroethane ND 140 ug/mi 1,1,2,2-Tetrachloroethane ND 110 ug/mi 1,1-Dichloroethane 210 81 ug/mi 1,1-Dichloroethane 210 81 ug/mi 1,2,4-Trichlorobenzene ND 150 ug/mi 1,2,4-Trimethylbenzene 15000 1200 ug/mi 1,2-Dichlorobenzene ND 150 ug/mi 1,2-Dichloropenzene ND 120 ug/mi 1,2-Dichloropenzene ND 92 u	3 4 5/12/2015 6:55:00 PM
Dimethyl sulfide 9400 1900 ug/m3 Ethyl mercaptan 560 100 ug/m3 Hydrogen Sulfide 110000 6800 ug/m3 Isopropyl mercaptan 2600 310 ug/m3 Methyl mercaptan 2600 310 ug/m3 VOC'S METHOD TO15 + TIC TO-15 1,1,2,2-Tetrachloroethane 86 110 J ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2,2-Tetrachloroethane ND 110 ug/m3 1,1,2-Trichloroethane 86 110 J ug/m3 1,1-Dichloroethane 210 81 ug/m3 1,2,4-Trichloroethane 150 ug/m3 1,2,4-Trimethylbenzene 15000 1200 ug/m3 1,2-Dichlorobenzene ND 150 ug/m3 1,2-Dichloroethane ND 120 ug/m3 1,2-Dichloropenzene ND 120 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,2-Dichloropr	3 4 5/12/2015 6:55:00 PM
Ethyl mercaptan 560 100 ug/m3 Hydrogen Sulfide 110000 6800 ug/m3 Isopropyl mercaptan 2600 310 ug/m3 Methyl mercaptan 2600 310 ug/m3 VOC'S METHOD TO15 + TIC TO-15 TO-15 1,1,2-Z-Tetrachloroethane ND 140 ug/m3 1,1,2-Z-Tetrachloroethane ND 140 ug/m3 1,1,2-Trichloroethane ND 110 ug/m3 1,1-Dichloroethane 210 81 ug/m3 1,1,2-Trichloroethane 0 100 ug/m3 1,2,4-Trichloroethane 150 ug/m3 1,2,4-Trinethylbenzene 1500 1200 ug/m3 1,2-Dichlorobenzene ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloropenzene ND 120 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 <	3 49 5/13/2015 3:16:00 PM
Hydrogen Sulfide 110000 6800 ug/max Isopropyl mercaptan 2600 310 ug/max Methyl mercaptan 1400 200 ug/max VOC'S METHOD TO15 + TIC TO-15 1,1,1-Trichloroethane 86 110 J ug/max 1,1,2,2-Tetrachloroethane ND 140 ug/max 1,1,2-Trichloroethane ND 110 ug/max 1,1-Dichloroethane 210 81 ug/max 1,1-Dichloroethane 67 79 J ug/max 1,2,4-Trichloroethane 1500 1200 ug/max 1,2-Dichloroethane ND 150 ug/max 1,2-Dichloroethane ND 120 ug/max 1,2-Dichloroethane 1000 81	3 4 5/12/2015 6:55:00 PM
Isopropyl mercaptan 2600 310 ug/m3 Methyl mercaptan 1400 200 ug/m3 VOC'S METHOD T015 + TIC TO-15 1,1,1-Trichloroethane 86 110 J ug/m3 1,1,2.2-Tetrachloroethane ND 140 ug/m3 1,1,2.2-Tetrachloroethane ND 140 ug/m3 1,1,2Trichloroethane ND 110 ug/m3 1,1-Dichloroethane 210 81 ug/m3 1,1-Dichloroethane 67 79 J ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3 1,2-Dibromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,3-Dichloropropane ND 92 ug/m3 1,3-butadiene ND 44 ug/m3 <td>3 490 5/14/2015 12:22:00 PM</td>	3 490 5/14/2015 12:22:00 PM
Methyl mercaptan 1400 200 ug/m3 VOC'S METHOD T015 + TIC TO-15 1,1,1-Trichloroethane 86 110 J ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2-Trichloroethane ND 110 ug/m3 1,1-Dichloroethane 210 81 ug/m3 1,1-Dichloroethane 67 79 J ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3 1,2-Dibromoethane 1500 1200 ug/m3 1,2-Dichlorobenzene ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,3-Dichloropropane ND 92 ug/m3 1,3-butadiene ND 44 ug/m3 <td>3 10 5/12/2015 7:35:00 PM</td>	3 10 5/12/2015 7:35:00 PM
VOC'S METHOD TO15 + TIC TO-15 1,1,1-Trichloroethane 86 110 J ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2-Trichloroethane ND 110 ug/m3 1,1,2-Trichloroethane ND 110 ug/m3 1,1-Dichloroethane 210 81 ug/m3 1,1-Dichloroethane 67 79 J ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3 1,2,4-Trimethylbenzene 15000 1200 ug/m3 1,2-Dibloromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloropenzene ND 120 ug/m3 1,2-Dichloropenzene ND 20 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,3-Dichloropropane ND 44 ug/m3	3 10 5/12/2015 7:35:00 PM
1,1,1-Trichloroethane 86 110 J ug/m3 1,1,2,2-Tetrachloroethane ND 140 ug/m3 1,1,2-Trichloroethane ND 110 ug/m3 1,1,2-Trichloroethane ND 110 ug/m3 1,1-Dichloroethane 210 81 ug/m3 1,1-Dichloroethane 67 79 J ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3 1,2,4-Trimethylbenzene 15000 1200 ug/m3 1,2-Dibromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloroethane 1000 81 ug/m3 1,2-Dichloropropane ND 92 ug/m3 1,3-butadiene ND 44 ug/m3	Analyst: WD
1,1,2,2-Tetrachloroethane ND 140 ug/m2 1,1,2-Trichloroethane ND 110 ug/m2 1,1-Dichloroethane 210 81 ug/m2 1,1-Dichloroethane 210 81 ug/m2 1,1-Dichloroethane 67 79 J ug/m2 1,2,4-Trichlorobenzene ND 150 ug/m2 1,2-Dichlorobenzene ND 150 ug/m2 1,2-Dibromoethane ND 150 ug/m2 1,2-Dichlorobenzene ND 150 ug/m2 1,2-Dichlorobenzene ND 120 ug/m2 1,2-Dichlorobenzene ND 120 ug/m2 1,2-Dichloropenzene ND 120 ug/m2 1,2-Dichloropropane ND 92 ug/m2 1,3-butadiene 2700 250 ug/m2	3 4 5/12/2015 6:55:00 PM
1,1,2-Trichloroethane ND 110 ug/m3 1,1-Dichloroethane 210 81 ug/m3 1,1-Dichloroethane 67 79 J ug/m3 1,1-Dichloroethene 67 79 J ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3 1,2-Dibromoethane ND 150 ug/m3 1,2-Dibromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloropenzene ND 120 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,3-Dichloropropane ND 92 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,1-Dichloroethane 210 81 ug/m3 1,1-Dichloroethene 67 79 J ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3 1,2,4-Trimethylbenzene 15000 1200 ug/m3 1,2-Dibromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,2-Dichloropenzene ND 92 ug/m3 1,3-Dichloroperopane ND 92 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,1-Dichloroethene 67 79 J ug/m3 1,2,4-Trichlorobenzene ND 150 ug/m3 1,2,4-Trimethylbenzene 15000 1200 ug/m3 1,2-Dibromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloropenane ND 92 ug/m3 1,3-Dichloropropane ND 92 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,2,4-Trichlorobenzene ND 150 ug/m3 1,2,4-Trimethylbenzene 15000 1200 ug/m3 1,2-Dibromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloropethane 1000 81 ug/m3 1,2-Dichloropethane ND 92 ug/m3 1,3-Dichloropropane ND 250 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,2,4-Trimethylbenzene 15000 1200 ug/m3 1,2-Dibromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloroethane 1000 81 ug/m3 1,2-Dichloroethane ND 92 ug/m3 1,2-Dichloropropane ND 92 ug/m3 1,3,5-Trimethylbenzene 2700 250 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,2-Dibromoethane ND 150 ug/m3 1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloroethane 1000 81 ug/m3 1,2-Dichloropropane ND 92 ug/m3 1,3,5-Trimethylbenzene 2700 250 ug/m3 1,3-butadiene ND 44 ug/m3	3 49 5/13/2015 3:16:00 PM
1,2-Dichlorobenzene ND 120 ug/m3 1,2-Dichloroethane 1000 81 ug/m3 1,2-Dichloropropane ND 92 ug/m3 1,3,5-Trimethylbenzene 2700 250 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,2-Dichloroethane 1000 81 ug/m3 1,2-Dichloropropane ND 92 ug/m3 1,3,5-Trimethylbenzene 2700 250 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,2-Dichloropropane ND 92 ug/m3 1,3,5-Trimethylbenzene 2700 250 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,3,5-Trimethylbenzene 2700 250 ug/m3 1,3-butadiene ND 44 ug/m3	3 4 5/12/2015 6:55:00 PM
1,3-butadiene ND 44 ug/m3	3 10 5/12/2015 7:35:00 PM
	3 4 5/12/2015 6:55:00 PM
1,3-Dichlorobenzene ND 120 ug/m3	3 4 5/12/2015 6:55:00 PM
1,4-Dichlorobenzene 2000 120 ug/m3	3 4 5/12/2015 6:55:00 PM
1,4-Dioxane 130 140 J ug/m3	3 4 5/12/2015 6:55:00 PM
2,2,4-trimethylpentane 4200 230 ug/m	3 10 5/12/2015 7:35:00 PM
4-ethyltoluene 2500 250 ug/m	3 10 5/12/2015 7:35:00 PM
Acetone 12000 12000 ug/m3	3 490 5/13/2015 2:38:00 PM
Allyl chloride ND 63 ug/m3	3 4 5/12/2015 6:55:00 PM

Analyte detected in the associated Method Blank В

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits

Е Value above quantitation range

J Analyte detected at or below quantitation limits

ND Not Detected at the Reporting Limit

Page 1 of 3

NOTE: As previously agreed, samples are sub-contracted to Centek for analysis. The report format is as agreed and may not meet ISO 17025 criteria. This service is outside the scope of UKAS accreditation.

Jet-Care International

Date: 14-May-15

CLIENI:	Fortistar Methane Group	Client Sample ID: LFG-1			
Lab Order:	C1505038		Tag Number:	1326	
Project:	Arbor Hills Plant		Collection Date:	5/11/201	.5
Lab ID:	C1505038-001A		Matrix:	AIR	

OC'S METHOD TO15 + TIC		TO-15		Analyst: WI	
Benzene	7000	770	ug/m3	49	5/13/2015 3:16:00 PM
Benzyl chloride	ND	110	ug/m3	4	5/12/2015 6:55:00 PM
Bromodichloromethane	ND	130	ug/m3	4	5/12/2015 6:55:00 PN
Bromoform	ND	210	ug/m3	4	5/12/2015 6:55:00 PN
Bromomethane	ND	78	ug/m3	4	5/12/2015 6:55:00 PN
Carbon disulfide	530	62	ug/m3	4	5/12/2015 6:55:00 PM
Carbon tetrachloride	ND	130	ug/m3	4	5/12/2015 6:55:00 PM
Chlorobenzene	270	92	ug/m3	4	5/12/2015 6:55:00 PM
Chloroethane	350	53	ug/m3	4	5/12/2015 6:55:00 PM
Chloroform	ND	98	ug/m3	4	5/12/2015 6:55:00 PM
Chloromethane	67	41	ug/m3	4	5/12/2015 6:55:00 PM
cis-1,2-Dichloroethene	1400	79	ug/m3	4	5/12/2015 6:55:00 PN
cis-1,3-Dichloropropene	ND	91	ug/m3	4	5/12/2015 6:55:00 PM
Cyclohexane	4600	830	ug/m3	49	5/13/2015 3:16:00 PM
Dibromochloromethane	ND	170	ug/m3	4	5/12/2015 6:55:00 PM
Ethyl acetate	2900	360	ug/m3	10	5/12/2015 7:35:00 PM
Ethylbenzene	15000	1000	ug/m3	49	5/13/2015 3:16:00 PM
Freon 11	1700	110	ug/m3	4	5/12/2015 6:55:00 PM
Freon 113	94	150	J ug/m3	4	5/12/2015 6:55:00 PM
Freon 114	420	140	ug/m3	4	5/12/2015 6:55:00 PM
Freon 12	1300	99	ug/m3	4	5/12/2015 6:55:00 PM
Heptane	7300	980	ug/m3	49	5/13/2015 3:16:00 PM
Hexachloro-1,3-butadiene	ND	210	ug/m3	4	5/12/2015 6:55:00 PM
Hexane	5700	850	ug/m3	49	5/13/2015 3:16:00 PM
sopropyl alcohol	6700	590	ug/m3	49	5/13/2015 3:16:00 PM
m&p-Xylene	27000	2100	ug/m3	49	5/13/2015 3:16:00 PM
Methyl Butyl Ketone	ND	160	ug/m3	4	5/12/2015 6:55:00 PM
Methyl Ethyl Ketone	10000	1400	ug/m3	49	5/13/2015 3:16:00 PM
Vethyl Isobutyl Ketone	1900	410	ug/m3	10	5/12/2015 7:35:00 PM
Vethyl tert-butyl ether	ND	72	ug/m3	4	5/12/2015 6:55:00 PM
Methylene chloride	470	69	ug/m3	4	5/12/2015 6:55:00 PM
o-Xylene	10000	1000	ug/m3	49	5/13/2015 3:16:00 PM
Propylene	16000	4100	ug/m3	490	5/13/2015 2:38:00 PM
Styrene	ND	85	ug/m3	4	5/12/2015 6:55:00 PM
Tetrachloroethylene	1400	140	ug/m3	4	5/12/2015 6:55:00 PM
Tetrahydrofuran	4600	710	ug/m3	49	5/13/2015 3:16:00 PM
Toluene	23000	9000	ug/m3	490	5/13/2015 2:38:00 PM
rans-1,2-Dichloroethene	150	79	ug/m3	4	5/12/2015 6:55:00 PM
trans-1,3-Dichloropropene	ND	91	ug/m3	4	5/12/2015 6:55:00 PM
Trichloroethene	660	110	ug/m3	4	5/12/2015 6:55:00 PM

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

JN Non-routine analyte. Quantitation estimated.

S Spike Recovery outside accepted recovery limits . Results reported are not blank corrected

E Value above quantitation range

J Analyte detected at or below quantitation limits

ND Not Detected at the Reporting Limit

Page 2 of 3

NOTE: As previously agreed, samples are sub-contracted to Centek for analysis. The report format is as agreed and may not meet ISO 17025 criteria. This service is outside the scope of UKAS accreditation.

Jet-Care International

Date: 14-May-15

CLIENT:	Fortistar Methane Grou	р	C	LFG-1		
Lab Order:	C1505038 Arbor Hills Plant			Tag Number:	1326	
Project:			Collection Date:		5/11/2015	
Lab ID:	C1505038-001A			Matrix:	AIR	
Analyses		Result	**Limit Qual	Units	DF	Date Analyzed
VOC'S METHOD TO15 + TIC			TO-15			Analyst: WD
Vinyl acetate		ND	70	ug/m3	4	5/12/2015 6:55:00 PM
Vinyl Bromide		ND	87	ug/m3	4	5/12/2015 6:55:00 PM
Vinyl chloride		1100	130	ug/m3	10	5/12/2015 7:35:00 PM

**	Reporting Limit		Results reported are not blank corrected	
В	Analyte detected in the associated Method Blank	. Ε	Value above quantitation range	
Н	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	2
S	Spike Recovery outside accepted recovery limits		Pa	ge 3 01
	** B H JN S	 ** Reporting Limit B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded JN Non-routine analyte. Quantitation estimated. S Spike Recovery outside accepted recovery limits 	** Reporting Limit . B Analyte detected in the associated Method Blank E H Holding times for preparation or analysis exceeded J JN Non-routine analyte. Quantitation estimated. ND S Spike Recovery outside accepted recovery limits .	** Reporting Limit Results reported are not blank corrected B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit S Spike Recovery outside accepted recovery limits Feature Pate

NOTE: As previously agreed, samples are sub-contracted to Centek for analysis. The report format is as agreed and may not meet ISO 17025 criteria. This service is outside the scope of UKAS accreditation.

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