

# **Report:**

Mercury Emission Testing at the Clean Harbors Sarnia Facility (February 2016)

Date: March 23, 2016





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#### **Revision History**

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1	March 23, 2016	None

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#### **EXECUTIVE SUMMARY**

ORTECH Consulting Inc. (ORTECH) was requested by Clean Harbors Canada Inc., (Clean Harbors) to conduct a mercury emission testing program at the incineration facility located in Corunna, Ontario.

Mercury emission tests were performed at the Incinerator Exhaust Stack following the procedures outlined in US EPA Method 30B, "Determination of Total Vapour Phase Mercury Emissions from Coal-Fired Combustion Sources Using Carbon Sorbent Traps" to determine the amount of total vapour phase mercury present in the gas stream.

The test method states that the recovery spike must be within 50 to 150 percent of the expected mass collected in the traps during sampling. Six pairs of tube samples were collected during one day of testing on February 23, 2016. To ensure that at least one of the spike concentrations would fall within the concentration range requirements of the test method one tube from each of the six pairs of adsorbent tubes were spiked with increasing amounts of mercury, ranging from 100 ng to 3600 ng, by the analytical laboratory prior to commencing the test program.

The results of three of the pairs of tubes, including the spike that best represented the mercury concentration in the stack gas at the time of testing, are reported.

The average combustion gas values for each test period were obtained from the plant continuous emission monitoring (CEM) system. The average oxygen concentration for each test was used to determine the dry reference concentration adjusted to 11% oxygen.

The average mercury emission data from the triplicate total vapour phase mercury tests is provided below:

Mercury Parameter	Average
Dry Reference Concentration (μg/Rm³)*	20.4
Dry Adjusted Concentration (μg/Rm³)**	25.3

- reference conditions are 25°C and 1 atmosphere
- \*\* at 25°C and 1 atmosphere, adjusted to 11% oxygen

During the emission testing program, the powdered activated carbon (PAC) injection rate was 22.2 lb/hr.



#### 1. INTRODUCTION

ORTECH Consulting Inc. (ORTECH) was requested by Clean Harbors Canada Inc., (Clean Harbors) to conduct a mercury emission testing program at the incineration facility located in Corunna, Ontario.

Mercury emission tests were performed at the Incinerator Exhaust Stack following the procedures outlined in US EPA Method 30B, "Determination of Total Vapour Phase Mercury Emissions from Coal-Fired Combustion Sources Using Carbon Sorbent Traps" to determine the amount of total vapour phase mercury present in the gas stream.

The average combustion gas values for each test period were obtained from the plant continuous emission monitoring (CEM) system. The average oxygen concentration for each test was used to determine the dry reference concentration adjusted to 11% oxygen.

Six pairs of adsorbent tubes were collected during one day of sampling on February 23, 2016. The spike tubes from each test pair were spiked with increasing amounts of mercury, ranging from 100 ng to 3600 ng, prior to commencing the test program to ensure that at least one of the spike concentrations would fall within the concentration range requirements of the test method. The test method states that the recovery spike must be within 50 to 150 percent of the expected mass collected in the traps during sampling. The results of three of the pairs of tubes, including the spike that best represented the mercury concentration in the stack gas at the time of testing, are reported.

All tables referenced herein are included in Appendix 1.

#### 2. SAMPLING LOCATION

The Incinerator Exhaust Stack has an inside diameter of 1.52 meters at the sampling platform and 1.22 meters at the stack exit. The stack height above grade is 68.6 meters.

Mercury sampling was conducted at the breeching connecting the induced draft fan to the stack. Sampling was conducted at a single point in the center of the duct.

Previous testing programs conducted by ORTECH at the Clean Harbors Incinerator Exhaust Stack have shown that there is no stack gas stratification between the breeching connecting the induced draft fan to the stack and the stack sampling platform location.



#### 3. SAMPLING METHODOLOGY

Mercury emission tests were performed following the procedures outlined in US EPA Method 30B, "Determination of Total Vapour Phase Mercury Emissions from Coal-Fired Combustion Sources Using Carbon Sorbent Traps".

ORTECH used two probes in parallel so that the mercury traps were only 1 to 2 inches apart. Each probe was heated to approximately 135°C to prevent condensation of the stack gas on the sampling media. Each mercury trap was also specially designed for sampling at wet sources. Each tube had an extended section of glass to allow for the heating of the stack gas before it came into contact with the sampling media.

The sampling methodology is briefly described as follows. Each sorbent trap was removed from the clean sorbent trap storage container, the end caps were removed from the traps and the traps were attached to the end of the sampling probe and leak checked. The probe was inserted into the stack and the sample pumps were started. The stack gas was drawn through the traps and into the sampling probe. The sampled gas stream then passed through a series of empty impingers followed by a silica gel trap to remove any remaining traces of moisture prior to the pump and dry gas meter.

A run consisted of paired mercury traps, identified as either A or B, sampled simultaneously. In each tube pair one of either the A or B tube was spiked with a known quantity of mercury. Due to the variability in the mercury concentration in the stack gas and the necessity to have the spiked tubes prepared at least two weeks in advance of the testing program, six pairs of tubes were used for the sampling program to ensure that at least one of the spike concentrations would fall within the concentration range requirements of the test method.

Each test run was sixty minutes in duration at an approximate sampling rate of one liter per minute.

At approximately five minute time increments throughout each test, the following information was measured and recorded for each sampling train:

- Elapsed sampling time
- Dry gas meter volume
- Dry gas meter temperatures
- Control module orifice pressure
- Sampling pump vacuum



At the start and finish of each sampling run the sampling trains were leak-checked. The leakage rate for each train must not exceed 4% of the average sampling rate for the collection period. If a trap pair did not have an acceptable initial leak check, the leak was found and repaired and/or the traps were replaced with a new pair until no leak was discernible. All the leak checks performed for the traps used showed no discernible leak through the test train.

Field testing data sheets for the mercury tests are provided in Appendix 2.

All of the sampling equipment used during the emission testing program was calibrated following the applicable reference method. Equipment calibration data is provided in Appendix 3.

#### 4. ANALYSIS METHODOLOGY

At the end of each successful sampling run, the mercury traps were removed from the test train, capped and placed in their appropriate sample container. Each trap was labeled prior to being shipped to Ohio Lumex for analysis.

The traps were analyzed by thermal decomposition with atomic absorption following the procedures detailed in US EPA Method 7473 (direct thermal desorption with atomic absorption and no gold amalgamation). The method is applicable for total mercury "direct" testing of 40 CFR Part 75 Appendix K and EPA Method 30B sorbent traps.

The analysis is briefly described as follows. The sorbent trap tube end cap is removed; the glass wool plug closest to the appropriate carbon bed is carefully removed and separated from the carbon fraction. The sorbent is transferred into a quartz ladle and then covered with anhydrous sodium carbonate. The ladle is inserted into the heated analyzer thermo catalytic conversion chamber. Mercury is converted from a bound state to the atomic state by thermal decomposition in the furnace and is then detected by atomic absorption. The mercury concentration is measured and recorded using an automated data acquisition system. Both the glass wool plug and the sorbent of each bed are analyzed for the trap and the final mercury mass is the sum of the measurements.

The Ohio Lumex analytical report for total vapour phase mercury is provided in Appendix 4.



### 5. QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The analysis of samples for mercury was performed by thermal decomposition with atomic absorption. Specific analytical QC procedures for the mercury analysis are summarized below:

- Calibrations are performed on the day of the analysis.
- Three or more calibration points are used for the calibration curve.
- The field samples analyzed must fall within a calibrated range.
- For each calibration curve,  $R^2 \ge 0.99$ , and the analyzer response must be within  $\pm$  10% for each standard used in the calibration.
- Following calibration, a second source standard is analyzed. The measured value of the independently prepared standard must be within ± 10% of the expected value.
- A blank analysis is conducted prior to analyzing the samples and must be less than the method detection limit.
- At the end of each set of analysis, a calibration standard is tested which must be within ±10% of the expected value.

Approximately two weeks before the field testing, sample media was ordered from Ohio Lumex. Six unspiked mercury traps and six pre-spiked mercury traps were ordered. The pre-spiked mercury traps were spiked with known quantities of mercury ranging from 100 ng to 3600 ng in order to ensure that at least one of the traps fell within the spiking criterion stated in the test method. The recovery spike must be within 50 to 150 percent of the expected mass collected in the traps during sampling according to the test method. The spiking levels for the field recovery traps was estimated using mercury emission data from previous testing programs conducted between 2014 and 2015. The prespiked mercury traps for Test No. 4 (800 ng) and Test No. 5 (1400 ng) were used for spike recovery determination as the concentrations best fit the requirements of the QA/QC criteria (within ±50% of the expected concentration). The concentration in the Test No. 4 spiked tube (800 ng) was 65% of the average mercury collected for Test No. 3 to Test No. 5 (1240 ng), and the concentration in the Test No. 5 spiked tube (1400 ng) was 113% of the average mercury collected for Test No. 5.

The field spike recovery provides specific verification of the performance of the combined sampling and analytical approach for the test program. Six sets of paired samples, one of each pair which is spiked with a known quantity of mercury, were collected. The samples were analyzed and the spike concentrations for Test No. 4 and Test No. 5 fell within the spike range criterion stated in the test method. The spike recovery for Test No. 4 and Test No. 5 were 115% and 113%, respectively. US EPA Method 30B requires the average of the spike recoveries to be between 85 % and 115%.



US EPA Method 30B requires the paired sorbent trap agreement to be  $\leq$ 10% relative deviation for mercury concentrations greater than 1 µg/Rm³ or  $\leq$ 20% relative deviation for mercury concentrations less than 1 µg/Rm³. If the paired trap agreement is greater than the above stated limits the run is not valid. All of the traps collected during the test program had concentrations greater than 1 µg/Rm³. The paired trap agreement was 5.9% for Test No. 3, 5.1% for Test No. 4, and 7.0% for Test No. 5. The dry adjusted mercury concentration ranged from 23.5 µg/Rm³ for Test No. 3 to 28.3 µg/Rm³ for Test No. 5.

#### 6. RESULTS

Six mercury runs were collected during one day of sampling on February 23, 2016. A run consisted of paired mercury traps, identified as either A or B, sampled simultaneously. The spike tubes from each test pair were spiked with increasing amounts of mercury, ranging from 100 ng to 3600 ng, prior to commencing the test program to ensure that at least one of the spike concentrations would fall within the concentration range requirements of the test method. The results for Test No. 3 to Test No. 5 are reported.

The sampling schedule is summarized in Table 1. This information includes test dates and times for each of the mercury runs performed. All test times match plant time (i.e. daylight savings time).

Mercury emission sample analyses for Test No. 3 to Test No. 5 are provided in Table 3. Mercury was detected in Section 1 of each trap in quantities greater than the method detection limit (1.17 ng) in all of the traps. Mercury was also collected in Section 2 in five of the six traps in quantities greater than the method detection limit. However, the amount detected in Section 2 was less than 1% of the mercury collected in Section 1, indicating that there was no breakthrough or potential loss of mercury. US EPA Method 30B states that  $\leq$ 10% of the total mercury collected should be collected in Section 2 for mercury concentrations greater than 1  $\mu$ g/Rm³ or  $\leq$ 20% of the total mercury collected should be collected in Section 2 for mercury concentrations less than 1  $\mu$ g/Rm³.

Included in Table 2 are the mercury concentration calculations for Test No. 3 to Test No. 5. The average oxygen concentration measured by the Clean Harbors CEM system for each test was used to determine the dry reference concentration adjusted to 11% oxygen.

Approximately two weeks before the field testing, sample media was ordered from Ohio Lumex. Six unspiked mercury traps and six pre-spiked mercury traps were ordered. The pre-spiked mercury traps were spiked with known quantities of mercury ranging from 100 ng to 3600 ng in order to ensure that at least one of the traps fell within the spiking criterion stated in the test method. The pre-spiked mercury traps for Test No. 4 (800 ng) and Test No. 5 (1400 ng) were used for spike recovery determination as the concentrations best fit the requirements of the QA/QC criteria (within ±50% of the expected concentration).



US EPA Method 30B states that it is acceptable to use the field recovery runs as test runs for emission testing as long as they meet the paired trap agreement criteria. The mass of the mercury spike initially present in each of the spiked traps was subtracted from the total mercury collected in Section 1 of the trap. The difference represents the amount of mercury in the stack gas.

The paired trap agreement was 5.9% for Test No. 3, 5.1% for Test No. 4, and 7.0% for Test No. 5. The dry adjusted mercury concentration ranged from 23.5  $\mu$ g/Rm<sup>3</sup> for Test No. 3 to 28.3  $\mu$ g/Rm<sup>3</sup> for Test No. 5. The mercury emission data from the total vapour phase mercury tests is provided below:

Mercury Parameter	Test 3	Test 4	Test 5	Average
Dry Reference Conc. (μg/Rm <sup>3</sup> )*	18.8	19.5	23.0	20.4
Dry Adjusted Conc. (μg/Rm³)**	23.5	24.2	28.3	25.3

- \* Reference conditions are 25°C and 1 atmosphere.
- \*\* At 25°C and 1 atmosphere, adjusted to 11% oxygen

The incinerator exhaust stack mercury concentration limit as stated in Environmental Compliance Approval No. 8-1030-94-006 (formerly Certificate of Approval (Air) No. 8-1030-94-006) is 50  $\mu$ g/Rm<sup>3</sup> adjusted to 11% oxygen. The mercury concentrations were below this limit during the test program.

The spiked mercury trap recovery calculations for Test No. 4 and Test No. 5 are shown in Table 3. The spike recovery for Test No. 4 and Test No. 5 were 115% and 113%, respectively. US EPA Method 30B requires the average of the spike recoveries to be between 85 % and 115%.

#### 7. FACILITY PROCESS DATA

Incinerator process data was supplied by Clean Harbors personnel for the emission test periods. The process data is provided in Appendix 5 as average values for each test for the following process parameters:

- incinerator feed rates (rich, lean, emulsion and alkaline streams)
- volumetric flowrates (secondary air and stack gases)
- temperatures (primary zone, secondary zone, spray dryer inlet and outlet, stack gases)
- pressures (burner, spray dryer outlet, baghouse differential)
- combustion gas stack concentrations (CO, HCl, CO<sub>2</sub>, H<sub>2</sub>O, THC, O<sub>2</sub>, SO<sub>2</sub>)
- stack gas opacity
- carbon injection rate

During the emission testing program, the powdered activated carbon (PAC) injection rate was 22.2 lb/hr.



**APPENDIX 1** 

Data Tables (2 pages)



**Table 1: Mercury Test Schedule** 

Test	Test Date	Samplin	g Period	Sampling Time
Number		Start	Finish	min
1	February 23, 2016	9:50	10:50	60
2	February 23, 2016	11:53	12:53	60
3	February 23, 2016	13:12	14:12	60
4	February 23, 2016	14:28	15:28	60
5	February 23, 2016	15:46	16:46	60
6	February 23, 2016	17:02	18:02	60

Note: All test times match plant time (i.e. daylight savings time).



**Table 2: Mercury Emission Data** 

Test/Run	Tube	N	Nercury Collected	i	Dry Gas	Mercury Co	ncentration	Paired
No.	ID	Section 1	Section 2	Total	Volume Sampled	Dry Reference	Dry Adjusted	Trap Agreement
		ng	ng	ng	Rm <sup>3</sup> *	μg/Rm³*	μg/Rm³**	%
3	A***	1093.0	<1.17	1093	0.0617	17.7	22.2	_
	В	1285.0	1.6	1287	0.0646	19.9	24.9	-
	Average					18.8	23.5	5.9
4	Α	1072.0	2.6	1075	0.0580	18.5	22.9	-
	B ***	1250.0	0.7	1251	0.0610	20.5	25.4	-
	Average					19.5	24.2	5.1
5	A***	1384.0	6.1	1390	0.0565	24.6	30.3	-
	В	1342.0	1.2	1343	0.0628	21.4	26.3	-
	Average					23.0	28.3	7.0
Average				1240		20.4	25.3	

Note: Concentration data is only report for three tests as required by US EPA Method 30B

**Table 3: Mercury Spike Tube Recovery** 

Test		Spike Tube			Unspike Tube		Spike	Spike
No.	Total	Volume	Mercury	Total	Volume	Mercury	Concentration	Recovery
	Collected	Sampled	Concentration	Collected	Sampled	Concentration		
	ng	Rm <sup>3</sup> *	ng/Rm³*	ng	Rm <sup>3</sup> *	ng/Rm³*	ng/Rm³*	%
3	1593.0	0.0617	25804	1286.6	0.0646	19908	5896	NA
	2050.7	0.0610	22500	10746	0.0500	10510	45070	115
4	2050.7	0.0610	33598	1074.6	0.0580	18519	15079	115
5	2790.1	0.0565	49401	1343.2	0.0628	21373	28028	113
Average								114

Note: The spike tubes were spiked with mercury by the analytical laboratory prior to sampling. The original spike concentrations were 500 ng for Test No. 3, 800 ng for Test No. 4 and 1400 ng for Test No. 5.

<sup>\*</sup> At 25°C and 1 atmosphere

<sup>\*\*</sup> At 25°C and 1 atmosphere, adjusted to 11% oxygen

<sup>\*\*\*</sup> Spiked tube, mercury collected corrected for the original spike (500 ng for Test No. 3, 800 ng for Test No. 4, 1400 ng for Test No. 5).

<sup>&</sup>quot;NA" Not Applicable. Spike recovery was not calculated as spike concentration was outside the range specified in US EPA Method 30B.



### **APPENDIX 2**

Mercury Field Data Sheets (7 pages)

# Clean Harbors, Sarnia Mercury Tube Sampling Train Sample Volume Corrections

# Incinerator Exhaust Stack

Test # - Tube (tube pair field ID)	DGMCF	Initial DGM Reading	Final DGM Reading	Actual Vol.	Barometric Pressure	Average DGM Pressure	Average DGM Temperature	Corrected	Corrected
		ĵ (1)	(a)	(3)	(in Hg)	del H (in H <sub>2</sub> O)	(0,)	(1)*	(Rm³)*
T1A (307462) Spiked	1.019	14.88	78.12	63.24	29.6	1.2	14.3	66.26	0.0663
T1B (299883)	1.030	8.55	68.26	59.71	29.6	2.5	16.2	63.02	0.0630
T2A (299885)	1.019	83.20	150.10	96.99	29.5	1.2	21.0	68.42	0.0684
T2B (307498) Spiked	1.030	72.65	133.60	60.95	29.5	2.5	19.1	63.63	0.0636
T3A (291929) Spiked	1.019	52.08	113.80	61.72	29.5	6.0	27.0	61.73	0.0617
T3B (299779)	1.030	40.98	103.61	62.63	29.5	2.5	22.1	64.63	0.0646
T4A (299860)	1.019	35.51	94.60	59.09	29.5	0.8	32.4	58.03	0.0580
T4B (307449) Spiked	1.030	17.90	77.85	59.95	29.5	2.5	26.0	61.04	0.0610
T5A (309700) Spiked	1.019	96.30	153.10	56.80	29.5	0.8	28.5	56.48	0.0565
T5B (299950)	1.030	79.70	140.50	60.80	29.5	2.5	21.4	62.85	0.0628
T6A (299784)	1.019	56.39	116.25	59.86	29.5	0.8	25.0	60.18	0.0602
T6B (309715) Spiked	1.030	41.80	99.40	27.60	29.5	2.5	16.8	60.44	0.0604
							A THE RESERVE THE PROPERTY OF		

\* dry at 25°C and 1 atmosphere

# ORTECH Environmental Mercury Tube Data Sheet

Plant: 60 7 11-	0.00			Test location:	ぶんぜき チェッシレー
Plant: CLEAN HA	USONS SHARE			Date:	13/15/5/ HI/NV-
	UNNA, ON				<u> </u>
Test No.:				Project No.:	71627
				Measuring Device	MII
Train A				Control Module 4	Alizin
	2021/71	Cultural Ward Na		Barometer	7111347
Tube Identification: Spike Concentration		Spiked (Yes) No		barometer 2	EW CHV
Spike Concentration				Barometric Pressure	94.27
Clock	Dry Gas	Meter Ter	mperature	Meter	Pump
Time	Meter	Outlet	Inlet	Pressure	Vacuum
1		AVG		ΔН	"Hg
	L	°C	°C	"H <sub>2</sub> U	Gauge
0	14.686	73		1 7	Ч
5	19 46	3		1 1	1/5
10	7 7 7	124		4 7	10
15	29.5			1-1-1-	<del>                                     </del>
20	<del>-34-4</del>	<u> </u>		1.2	
25	39.H	15		1-2-	
30	<u> </u>	15	***	1 12	14
35	50,2	16		12	17.3
40	55.5	16		1.7	12-5
45	61,5	19	2000	1.7	10.5
50	66 4	19		1.7	10.5
55	47.5	15		1.7	12.5
60	49.12	1%		1.2	17. ~
Start Time:	9 50	Initial Leak Check 🚄 ,	0/ Lpm@ 27"Hg	DGMCF:	1,019,
Finish Time:	10 50	Final Leak Check 🟒	் Lpm@ 👍 "Hg	Sample Volume:	63.24
				Average DGM Temp:	14.3
				Average DGM Δ H:	1:2
Train B	5 0C: 2015	Is yet was Alex		Measuring Device	Mil
Tube Identification:	299983	Spiked Yes No			
Spike Concentration	ng ng			Control Module	
Clock					1015
	Dry Gas	Meter Te	emperature	Meter	Pump
l Time	Dry Gas Meter				Pump
Time	Dry Gas Meter	Outlet	emperature Inlet	Pressure	Pump Vacuum
Time	1				Pump
	Meter L	Outlet AVC °C	Inlet	Pressure Δ H H₂U	Pump Vacuum "Hg
0	Meter  L  3.55	Outlet AVC °C	Inlet	Pressure Δ H H <sub>2</sub> U	Pump Vacuum "Hg
0 5	Meter  L  3.55	Outlet AVC °C	Inlet	Pressure Δ H	Pump Vacuum "Hg Gauge
0 5 10	Meter  L  3.55	Outlet AVC °C  B 13	Inlet	Pressure Δ H H <sub>2</sub> U  2 S 2 S 2 S	Pump Vacuum "Hg Gauge
0 5 10 15	Meter  L  9.55  13.0  18.0  22.7	Outlet AVC °C	Inlet	Pressure Δ H ''H <sub>2</sub> U  2.5 2.5 2.5 2.5	Pump Vacuum "Hg Gauge
0 5 10 15 20	Meter  L  9.55  13.0  18.0  22.7	Outlet AVC °C  B 13	Inlet	Pressure Δ H 'H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5	Pump Vacuum "Hg Gauge
0 5 10 15 20 25	Meter  L  9.55  13.0  18.0  22.7	Outlet AVC °C  B 13	Inlet	Pressure Δ H ''H <sub>2</sub> U  2.5 2.5 2.5 2.5	Pump Vacuum "Hg Gauge
0 5 10 15 20 25	Meter  L  9.55  13.0  18.0  22.7	Outlet AVC °C  B 13	Inlet	Pressure Δ H 'H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5	Pump Vacuum "Hg Gauge
0 5 10 15 20 25	Meter  L  9.55  13.0  18.0  22.7	Outlet AVC °C  B 13	Inlet	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5	Pump Vacuum "Hg Gauge
0 5 10 15 20 25	Meter  L  9.55  13.0  18.0  22.7	Outlet AVC °C  B 13	Inlet	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	Pump Vacuum "Hg Gauge
0 5 10 15 20 25 30 35	Meter  L  9.55  13.0  18.0  22.7	Outlet AVC °C  B 13	Inlet	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Pump Vacuum "Hg Gauge
0 5 10 15 20 25 30 35 40	Meter  L  9.55  13.0  18.0  22.7	Outlet AVC °C  B 13	Inlet	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	Pump Vacuum "Hg Gauge
0 5 10 15 20 25 30 35 40 45	Meter  L  3.55  13.0  18.0  22.7  21.5  47.5  47.6  53.0  58.0	Outlet AVC °C  B  13  15  10  11  11  11  12  13	Inlet	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	Pump Vacuum "Hg Gauge
0 5 10 15 20 25 30 35 40 45 50	Meter  1 9.55 13.0 18.0 22.7 21.7 21.6 37.5 47.5 47.6 53.0 56.0	Outlet AVC °C  B  13  15  17  17  17  18  19  19  19  19  19  19  19  19  19	Inlet	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	Pump Vacuum "Hg Gauge
0 5 10 15 20 25 30 35 40 45	Meter  L  3.55  13.0  18.0  22.7  21.5  47.5  47.6  53.0  58.0	Outlet AVC °C  B  13  15  10  11  11  11  12  13	Inlet	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	Pump Vacuum "Hg Gauge
0 5 10 15 20 25 30 35 40 45 50	Meter  L  3.55  13.0  18.0  22.7  21.7  21.5  41.5  41.5  41.6  53.0  58.0	Outlet AVC °C  13 15 16 17 17 17 18 19 18	Inlet	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	Pump Vacuum "Hg Gauge
0 5 10 15 20 25 30 35 40 45 50 55	Meter  1 9.55 13.0 18.0 22.7 21.7 21.6 37.5 47.5 47.6 53.0 56.0	Outlet AVC °C  88 13 15 16 17 17 17 18 19 18	Inlet °C	Pressure Δ H	Pump Vacuum "Hg Gauge  9,5 10 11 11 11 11 11 11 11 11 11 11 11 11
0 5 10 15 20 25 30 35 40 45 50 55 60	Meter  1  3.55  13.0  18.0  22.7  27.7  27.5  47.5  47.6  53.0  58.0  68.16  950	Outlet  AVC °C  8  13  15  16  17  17  17  18  Initial Leak Check/	inlet °C	Pressure Δ H H <sub>2</sub> U  2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	Pump Vacuum "Hg Gauge  9,5 10 11 11 11 11 11 11 11 11 11 11 11 11

# **ORTECH** Environmental

lant: CLEAN	HARBORS	1		Test location: 512	11 Rospillie
				Date:	23 /162
est No.:	runa, on			Project No.:	63/18/
		J			
				Measuring Device	MII
rain A		p1/472444		Control Module 4	115/2
ube Identification:	299885	Spiked Yes No		Barometer	ENCHU
oike Concentration	ng			Barometric Pressure	PE,P6
Clock	Dry Gas	N/otor To	mperature	Meter	Pump
Time	Meter	-Outlet	Inlet	Pressure	Vacuum
iiiie	ivietei	AUG	imet	ΔH	"Hg
	L	, c	°C	"H <sub>2</sub> U	Gauge
0	42 1n	2 1000000	6	1 7	7,
5	100 7			1 - 1	<del></del>
10	1 34 6			1.7	10
15	99.7	13		1:2	<del></del>
		1 3		1.2	
20	109. 4	<del></del>			15
25	108.5	20		1.2	<u></u>
30	116,4	21	No. 200	1.2	<u>rl</u>
35	19.2	22	200	1.2	17
40	125.2	23		1.7	12
45	133.7	24		1.7_	12
50	139.7	2.5		1.7	12
				7. 7	
55 60	145.6	35		1.2	H.
55		25			12
55 60	145.6	75	6) Lpm@ / 3"Hg		吊
55 60 tart Time:	145.6	25	, o ( Lpm@ / 3 "Hg Lpm@ "Hg	12	12
55 60 art Time:	150.1 150.1 4091153	75 Initial Leak Check 6 Final Leak Check		DGMCF: Sample Volume: Average DGM Temp:	吊
55 60 tart Time:	150.1 150.1 4091153	1 Initial Leak Check 2		DGMCF: Sample Volume:	吊
55 60  tart Time: inish Time:  7651 PAUSE 104E TO F	150.1 150.1 4091153	75 Initial Leak Check 6 Final Leak Check		DGMCF: Sample Volume: Average DGM Temp:	吊
55 60  tart Time: inish Time:  Test lause Due To k	145.6 150.1 4091153 2091753 0 2 1115 BAC 21MP(CH)	Initial Leak Check & Final Leak Check		DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:	1.019 21.00 1.2
55 60  cart Time: nish Time: TEST PAUSE DUE TO F	145.6 150.1 150.1 12091153 1209115 BAC 21MP(CH)	Initial Leak Check 2. Final Leak Check		DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:	1.019 1.019 1.20 1.2
55 60 cart Time: nish Time: TEST PAUSE DUE TO F	145.6 150.1 4091153 2091753 0 2 1115 BAC 21MP(CH)	Initial Leak Check 2. Final Leak Check		DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:	1.019 21.00 1.2
55 60  tart Time: inish Time:  Test lause Due To k	145.6 150.1 150.1 12091153 1209115 BAC 21MP(CH)	Initial Leak Check 2 Final Leak Check CL ON @ /159  Spiked (Yes) No		DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:	1.019 1.019 1.20 1.2
55 60 cart Time: nish Time: 1551 PAUSE DUE TO F rain B ube Identification: pike Concentration	145.6 150.1 150.1 150.1 12.09.115.8 20.115.8 20.115.8 20.115.8 20.115.8 20.115.8 20.115.8 20.115.8 20.115.8 20.115.8 20.115.8 20.115.8 20.115.8	Initial Leak Check 2 Final Leak Check  CL ON @ /159  Spiked (Yes) No  Meter Te Outlet	Lpm@ "Hg	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2	1.019 29.9 1.2 MII
art Time:  art Time:  nish Time:  TEST PAUS PAUS PAUS PAUS PAUS PAUS PAUS PAUS	145.6 150.1 4091153 2091253 0 2 115 BAC 24MP(CH) 307498 250 ng	Initial Leak Check 2 Final Leak Check  CL ON @ 1159  Spiked (Yes) No  Meter Te Outlet AUG-	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H	MII 1017  Pump Vacuum "Hg
art Time:  art Time:  nish Time:  Aus To k  ain B  abe Identification:  oike Concentration	145.6 150.1 4091153 2091253 0 2 115 BAC 24MP(CH) 307498 250 ng	Initial Leak Check 2 Final Leak Check  CL ON @ /159  Spiked (Yes) No  Meter Te Outlet	Lpm@ "Hg	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure	MII 1017 Pump Vacuum
55 60  cart Time: nish Time:  AUST PAUS PAUS PAUS PAUS PAUS PAUS PAUS PAUS	145.6 150.1 150.1 150.1 150.1 150.1 153 150.1 153 153 153 153 153 153 153 15	Initial Leak Check 2 Final Leak Check CL ON @ 1159  Spiked (Yes) No  Meter Te Outlet AUG-	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H	MII 1017  Pump Vacuum "Hg Gauge
art Time: nish Time: Test lause Due To f  rain B ube Identification: oike Concentration  Clock Time	145.6 150.1 150.1 150.1 150.1 150.1 153 150.1 153 153 153 153 153 153 153 15	Initial Leak Check 2 Final Leak Check CL ON @ 1159  Spiked (Yes) No  Meter Te Outlet AUG-	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H	MII 1017  Pump Vacuum "Hg
sart Time: nish Time: Test Pause Due To P  rain B ube Identification: Dike Concentration  Clock Time  0 5	145.6 150.1 150.1 150.1 150.1 150.1 153 150.1 153 153 153 153 153 153 153 15	Initial Leak Check 2 Final Leak Check  IC ON @ 1159  Spiked (Yes) No  Meter Te Outlet AVG- °C	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U 2 - 5	MII 1017  Pump Vacuum "Hg Gauge
sart Time: nish Time: Test Pause Due To F  rain B ube Identification: bike Concentration  Clock Time  0 5 10	145.6 150.1 150.1 150.1 150.1 150.1 153 150.1 153 153 153 153 153 153 153 15	Initial Leak Check 2 Final Leak Check  CL ON @ /159  Spiked (Yes) No  Meter Te Outlet AUG- °C	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5  2 - 5	MII 1017  Pump Vacuum "Hg Gauge
art Time: nish Time: TEST PAUSE DUE TO P  Tain B  Ube Identification: Dike Concentration  Clock Time  0 5 10 15	145.6 150.1 HOGILS3 201753 20115 BAC 20198 250 ng  Dry Gas Meter  L  72.65  77.6  82.5  87.6	Initial Leak Check 2 Final Leak Check  IC ON @ 1159  Spiked (Yes) No  Meter Te Outlet AVG- °C	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5 2 - 7 2 - 7 2 - 7 3 - 7	MII 1017  Pump Vacuum "Hg Gauge
art Time: nish Time:  Test Pause Due To p  rain B  ube Identification: oike Concentration  Clock Time  0 5 10 15 20	145.6 150.1 150.1 150.1 150.1 150.1 153 150.1 153 153 153 153 153 153 153 15	Initial Leak Check 2 Final Leak Check  CL ON @ 1159  Spiked (Yes) No  Meter Te Outlet AUG- C 146 166 17	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5  2 - 5	MII 1017  Pump Vacuum "Hg Gauge
art Time: nish Time: Test lause Due To f  rain B Libe Identification: Dike Concentration  Clock Time  0 5 10 15 20 25	145.6 150.1 HOGILS3 201753 20115 BAC 20198 250 ng  Dry Gas Meter  L  72.65  77.6  82.5  87.6	Initial Leak Check 2 Final Leak Check  Final Lea	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5 2 - 7 2 - 7 2 - 7 3 - 7	MII IOIT  Pump Vacuum "Hg Gauge  12 12 12 12
art Time: nish Time: Test Pause Due To F  rain B  ube Identification: Dike Concentration  Clock Time  0 5 10 15 20 25 30	145.6 150.1 HOGILS3 201753 20115 BAC 20198 250 ng  Dry Gas Meter  L  72.65  77.6  82.5  87.6	Initial Leak Check 2 Final Leak Check  Final Lea	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5 2 - 7 2 - 7 2 - 7 3 - 7	12   12   12   12   12   12   12   12
55 60 cart Time: nish Time:  Test   Auser   To   F  rain B  ube Identification: bike Concentration  Clock Time  0 5 10 15 20 25 30 35	145.6 150.1 HOGILS3 201753 20115 BAC 20198 250 ng  Dry Gas Meter  L  72.65  77.6  82.5  87.6	Initial Leak Check 2 Final Leak Check  Final Lea	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5 2 - 7 2 - 7 2 - 7 3 - 7	MII IOIT  Pump Vacuum "Hg Gauge  12 12 12 12
art Time: nish Time: Test Pause Due To F  rain B  ube Identification: Dike Concentration  Clock Time  0 5 10 15 20 25 30	145.6 150.1 HOGILS3 201753 20115 BAC 20198 250 ng  Dry Gas Meter  L  72.65  77.6  82.5  87.6	Initial Leak Check 2 Final Leak Check  Final Lea	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5 2 - 7 2 - 7 2 - 7 3 - 7	12   12   12   12   12   12   12   12
55 60  cart Time: nish Time:  Test Pause Due To P  rain B  ube Identification: Dike Concentration  Clock Time  0 5 10 15 20 25 30 35	145.6 150.1 150.1 150.1 150.1 150.1 153 153 153 153 153 153 153 15	Initial Leak Check 2 Final Leak Check  Final Lea	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5 2 - 7 2 - 7 2 - 7 3 - 7	12   12   12   12   12   12   12   12
tart Time: nish Time: TEST PAUSE DUE TO F  rain B ube Identification: pike Concentration  Clock Time  0 5 10 15 20 25 30 35 40 45	145.6 150.1 HOGILS3 201753 20115 BAC 20198 250 ng  Dry Gas Meter  L  72.65  77.6  82.5  87.6	Initial Leak Check 2 Final Leak Check  Final Lea	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5	12   12   12   12   12   12   12   12
sart Time: nish Time: Test Pause Due To P  rain B ube Identification: oike Concentration  Clock Time  0 5 10 15 20 25 30 35 40 45 50	145.6 150.1 150.1 150.1 150.1 150.1 153 153 153 153 153 153 153 15	Initial Leak Check 2 Final Leak Check  Final Lea	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H H <sub>2</sub> U  2 - 5  2	12   12   12   12   12   12   12   12
art Time: nish Time: Test Pause Due To F  ain B  ube Identification: bike Concentration  Clock Time  0 5 10 15 20 25 30 35 40 45	145.6 150.1 150.1 150.1 150.1 150.1 153 153 153 153 153 153 153 15	Initial Leak Check 2 Final Leak Check  Final Lea	Lpm@ "Hg mperature Inlet	DGMCF: Sample Volume: Average DGM Temp: Average DGM Δ H:  Measuring Device Control Module 2  Meter Pressure Δ H "H <sub>2</sub> U  2 - 5	12   12   12   12   12   12   12   12

Operator:

Average DGM Temp: Average DGM Δ H:

# ORTECH Environmental Mercury Tube Data Sheet

Plant: CCA	N HARBOR			Test location: GACK	BUTTHAN
Plant Location: Colum	and and			Date: 13 73	3/16
Test No.: 3	<del>, , , , , , , , , , , , , , , , , , , </del>			Project No.:	
		J		<u> </u>	
				Measuring Device	MII
Train A		_		Control Module 4	11500
	291929	Spiked (Yes) No		Barometer	BUCAL
Spike Concentration	500 ng				300-37/
	- Care Control	.1		Barometric Pressure	a.r. ep
Clock	Dry Gas	Meter T	emperature	Meter	Pump
Time	Meter	Outlet-	Inlet	Pressure	Vacuum
		AVG		ΔН	"Hg
	L	°C	°C	"H₂U	Gauge
0	52.09	~ 1		<u> </u>	~
5	1577	75		· a	7
10	1717	178		(A)	4
15	12/ (			' Of	ä
20		1 51		4 4	a <sup>t</sup>
25	<del>                                      </del>	25		<del>                                     </del>	a d
30	+ 76++-			- 'a	
35	<del>1 51 4 -</del>	1 3/	<u> </u>	1 0	9
	<del>  \$6-7-</del>	450			
40	191.7	700		.0;	O <sub>1</sub>
45	1,43°X-	29°	<u> </u>	<del>- 3</del>	a d
50	1.05.9	30			
55	1/09.0	30		.01	9
60	1113.80	30		<u>ા લ</u>	9
		1 1 1 1 1 6 1 1	/	IDCNCC.	- 10
Start Time:	3/2	Initial Leak Check		DGMCF: Sample Volume:	1.019
Finish Time:	<u>4 1                                   </u>	rinai Leak Check &	Lpm@ <i>Z/5</i> "Hg	Average DGM Temp:	9-16
				Average DGM $\Delta$ H:	-4.V
Train B					
Tube Identification:	799,779	Spiked Yes No	1	Measuring Device	MII
Spike Concentration	ng ng		4	Control Module	10117
		<b>.</b>			
Clock	Dry Gas	Meter T	emperature emperature	Meter	Pump
Time	Meter	Qutlet-	Inlet	Pressure	Vacuum
		AVC-		ΔΗ	"Hg
	L	°C	°C	"H <sub>2</sub> U	Gauge
0	1 40,9%	/9	1	フィ	<u> </u>
5	146 11	21		275	3
10	50,6	21		7 <	17)
	+ <del></del>			1 78	16
10	Small		1	<u> </u>	<del>{</del>
15 20	+72 - 3	51		7 5	241
20	高。	21		1-2.5	70
20 25	66.3	22		25	10
20 25 30	186:3	22		2.5 2.5 7.5	10 10
20 25 30 35	66.3	22 22 22		25	/υ /υ /0
20 25 30 35 40	66.3	22 21 21 22 23		25	/b /v /0
20 25 30 35 40 45	39773	22 22 22 22 23 23		25	10 10 10 10
20 25 30 35 40 45 50	66.3 71.7 77.7 77.7 77.7 77.7 77.7 77.7 77	22 72 72 23 23 24		25	/b /0 /0 / U / U
20 25 30 35 40 45 50	11 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	22 21 21 23 23 24 24		15 15 15 15 25 25 25	/b /0 /0 / U
20 25 30 35 40 45 50	66.3 71.7 77.7 77.7 77.7 77.7 77.7 77.7 77	22 72 72 23 23 24		25	/b /0 /0 / U / U
20 25 30 35 40 45 50 55 60	66.3 71.2 71.3 93.9 93.5 93.6	22 72 72 23 23 24 24 24		15 15 15 15 25 25 25 25 25	10 10 10 10 10 10
20 25 30 35 40 45 50 55 60	11 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	22 22 22 23 23 24 24 24	20( Lpm@ 15 "Hg	7.5 7.5 7.5 7.5 7.5 7.5 7.5	10 10 10 10 10 10 10
20 25 30 35 40 45 50 55 60	66.3 71.2 71.3 93.9 93.5 93.6	22 72 72 23 23 24 24 24	€ 0( Lpm@ 15 "Hg € 01 Lpm@ 20 "Hg	15 15 15 15 25 25 25 25 25	10 10 10 10 10 10

# ORTECH Environmental Mercury Tube Data Sheet

				=	5°° ,
Plant: CLEAN	HARBORS			Test location: STACK	<u>- 1592 FCHIWL</u>
Plant Location: Caca	NIVIT, ON			Date: FB Z Project No.:	3/1/2
Test No.:				Project No.	
				Measuring Device	MII
Train A				Control Module 4	11547
Tube Identification:	299860	Spiked Yes (No		Barometer	FAIL CANT
Spike Concentration	ng ng				<u> </u>
	<u> </u>		Recorded to	Barometric Pressure	PP.PC
				'e-	<u></u>
Clock	Dry Gas	Meter Tem	perature	Meter	Pump
Time	Meter	- Qutiet	Inlet	Pressure	Vacuum
		AVG		ΔΗ	_"Hg
	L	°C	°C	"H₂U	Gauge
74. N. 10	35.5	27		9,9	<u> </u>
5	40.96	31		. 6	<u> </u>
10	1,5,5	31		. 8	5
15	50 3	31		9	<u> </u>
20	55.4	32		- 3	<u> </u>
25	60.4	32		8	9
30	65.3	33		3	9
35	70.3	34			<u> </u>
40	15.1	35		- 9	<u> </u>
45	80.0	35		. G	<u> </u>
50	94.9	34		. %	<u> </u>
55	39.3	33		.5	<u> </u>
60	194.601	33		0	4
		Talkial Carlo Charlo A	) Lpm@ / 5"Hg /	DGMCF:	1,019
Start Time: 14	<del>-</del> 2	Initial Leak Check 2.0	0 // 1111-	Sample Volume:	<del>2</del> 400
rillish filite.	45	Tittal Leak Circux 2,0	C spine / Q vis	Average DGM Temp:	30 U
				Average DGM Δ H:	0.48
Train B					
Tube Identification:	307449	Spiked (Yes No		Measuring Device	MII
Spike Concentration	<i>900</i> ' ng			Control Module 2	1017
	¥*				r
Clock	Dry Gas	Meter Ten		Meter	Pump
Time	Meter	Outlet	Inlet	Pressure	Vacuum
		AVG-	°C	ΔH H <sub>2</sub> U	"Hg Gauge
	L E		· · · · · · · · · · · · · · · · · · ·		Cange
0	129	24		7-5	
5	73.	- 35 +			5
10	1 29.			1 7.5	10.5
15	33.9	76	<u> </u>	7.5	
20	29	26		25	
25	<del>- 43.4</del>	26		7.5	1/
30	1-45, I	1-31-		2-5	
35	53.2	27		2-5	11
40	55.7			7.5	11
45	63.1	してい		2.5	1/
50	1 60 1	40		25	1/
55	33 2	76		25	1/
60	17.65	<u> </u>		2.5	<u> </u>
Start Time:	20	Initial Leak Check 6.0	)/ Lpm@ /5"Hg	DGMCF:	7,030
Start Time:	II works	I IIIIII LEGR CHECK /_ /	CALLUITING F For THE	LOCIVICE.	77 U プU
Finish Time: " >	704			Sample Volume:	
Finish Time:	74	Final Leak Check	Lpm@ C/Hg	Sample Volume: Average DGM Temp:	59.95 26.0

# **ORTECH Environmental**

**Mercury Tube Data Sheet** Test location: STACK BREACHING Plant: CLEAN HARBORS Plant Location: Concurred. Date: Project No.: Test No.: MII Measuring Device Control Module 🛭 🗸 Train A 11547 Tube Identification: 309760 Spiked (Yes /No Barometer ENV. CAN Spike Concentration 1400 ng **Barometric Pressure** 8P:PG Clock Dry Gas Meter Temperature Meter Pump Time Meter Outlet Inlet Pressure Vacuum AVC ΔΗ "Hg °C "H<sub>2</sub>U °C Gauge 0 0-9 5 10 15 0 29 20 O. 25 0 30 0 20 35 40 45 0.8 50 28 0.8 0.8 55 0.8 0 60 DGMCF: Start Time: Initial Leak Check 2.0 Lpm@ 16"Hg Sample Volume: Final Leak Check ∠ .0 ( Lpm@ Finish Time: Average DGM Temp: Average DGM Δ H: Train B Measuring Device Tube Identification: 299950 Spiked Yes (No) MII Spike Concentration ng Control Module 1011 Clock Dry Gas Meter Temperature Meter Pump Time Meter Outlet Vacuum inlet Pressure ΔН "Hg °C °C "H2U L Gauge 0 5 10 15 20 1 25 0 30 6 35 C 40 0 45 0 50 55 0 60 0 Start Time: Initial Leak Check Lpm@ / 7 "Hg DGMCF: Finish Time: Final Leak Check Lpm@ /9 "Hg Sample Volume:

Operator:

Average DGM Temp:

Average DGM Δ H:

# ORTECH Environmental Mercury Tube Data Sheet

		asit.			
Plant: CLEAN	HARBORS			Test location:	K BREACHING
	UNNA. ON			Date:	23/16
Test No.:				Project No.:	- Sale
				h	
				Measuring Device	MII
Train A				Control Module	11542
Tube Identification:	299 784	Spiked Yes (No		Barometer	ENV. CAN
Spike Concentration	ng			L	5707 7110
				Barometric Pressure	39.46
Clock	Dry Gas	Meter Te	emperature	Meter	Pump
Time	Meter	_Outlet-	Inlet	Pressure	Vacuum
		AUG-		ΔН	"Hg
	L L	°C	°C	"H₂U	Gauge
0	56,39	73	<u> </u>	0.9	5
5	61.30	20		0.3	-
10	Ga 7.	7_6		0.8	4
15	41 1	-m 5 :		0.8	q
20	76:0			0.9	d
25	Tap Y	<b>一元</b>		0.9	<del></del>
30	90,10			0.8	<del>d</del>
35	+ 74 4	4			<del></del>
	191.7	()	<u> </u>	0.8	
40	96.6	35		0.6	I.
45	1012	25		0.96	9
50	106.0	25		0.6	- $        -$
55	110.5	25.		0.9	9
60	116.25	25	į.	0.5	ζ-γ
Start Time:	1707	Initial Leak Check 🚄		DGMCF:	1.019
Finish Time:	1907	Final Leak Check 💪	0 (Lpm@ /5"Hg	Sample Volume:	54.56
				Average DGM Temp:	25:0
				Average DGM Δ H:	0.8
Train B					
Tube Identification:	309715	Spiked (Yes No		Measuring Device	MII
Spike Concentration	2600 ng			Control Module	1011
		*.*			
Clock	Dry Gas		emperature	Meter	Pump
Time	Meter	Outlet AV	Inlet	Pressure	Vacuum
				ΔΗ	"Hg
**	L	°C	°C	"H <sub>2</sub> U	Gauge
0	41.80	19		7.5	6
5	46.70	18		7.5	7.5
10	1 27 1	19'		7.5	9
15	1344	140		+ 4	
20	+5+4	——I <u> </u>		+	10
	+6.4	4.1		2-2	10
25	166.0	16		7.2	/0
30	190.5	76		7.5	/0
35	445	16		2.5	10
40	144.5	16		2.5	10
45	44.5	76		2.5	10
50	227	16	- Manager	- ラ <b>ミ</b>	10
55	1 80 X		\$ 100 miles	1 44	10
60	199:00	1/4		+ 55	
	<u> </u>			<u> </u>	
Start Time:	1201 -	Initial Leak Check	2.01 Lpm@ 19 "Hg	DGMCF:	1.030
Finish Time:	1000	Final Leak Check	Lpm@ / "Hg	Sample Volume:	1.030
	<del>100 L</del>		- 11 - 11 11 11 11 11 11 11 11 11 11 11	Average DGM Temp:	
Operator: /	~~1	pa*		Average DGM A H:	16.5



### **APPENDIX 3**

ORTECH Equipment Calibration (4 pages)

# Revision June 5, 2007

# ORTECH Environmental Dry Gas Meter Calibration Data

Control of the Contro	
Calibration Procedure	03-J004
Meter Number	Vost 4
Date	February 17, 2016
Barometric Pressure	29.53
System Leak Check	NDL @ 22 "Hg
Section of the Control of the Contro	

 $ft^3 = cm^* 1.332$  litres per cm/28.3168 litres per  $ft^3$ 

Tdgm 'F+460 Tstd °F+460 Vstd ft<sup>3</sup> DGMCF=

Phar (in. Hg)

(Phar in. Hg+DGMPressure/13.6)

CHACACARAL IN ULICALAND	ALTAND
DGM	A11542
Gasometer	A01463
Barometer	COE 20028
Calibrated By	Mike Traynor
Signature	JAN STAN
Reviewed and Accepted By	0.000

<u>L</u>	_				5	-	
		DGM Average	DC S		DCM	me	F OW
Volume Temperature	Volume	Temperature	Pressure	Outlet	Calibration		Rate
°C Initial		၁့	in, H <sub>2</sub> 0	၁	Factor	and	lpm
<u> </u>  _	-	29.0	1.2	29.0	1.020	17	1.3
138.54	-	27.0	1.2	27.0	1.019	18	1.3
21.0 161.15 183.44	.44 0.787	28.0	1,2	28.0	1.019	18	1,2

# Acceptance Criteria:

If not the calibration must be repeated. Also, the DGMCF average value must be  $1.00\pm0.05$ , Individual values of DGM calibration factor must be within  $\pm$  1.5% of the average value.

1.019

Lom

DGMCF AVERAGE

otherwise the meter must be repaired and/or adjusted as necessary and recalibrated prior to use. (Environment Canada Reference Method EPS 1/RM/8, Section 6)

# ORTECH Environmental Trendicator Calibration

Calibration Procedure	03-J005
Trendicator Type	Nutech
MII	A11542
Date	February 17, 2016
Calibrated By	Mike Traynor
Signature	418
Reviewed and Accepted By	DIL

Fluke Calibrator Output	Tredicator D	isplay Value	Percent Difference
(COE 20024)	Before Adjustment	After Adjustment	
(°C)	(°C)	(°C)	(%)
0	0	NA	0.0
10	10	14/00.00	0.0
20	20		0.0
50	50		0.0
75	75		0.0
100	100		0.0
125	126		-0.8
150	151		-0.7
200	200		0.0
300	301		-0.3
400	401		-0.3
500	501		-0.2
600	601	V	-0.2

% Difference = (micromite - after adjustment reading)x 100 micromite

### Acceptance Criteria:

Trendicator display must read within  $\pm$  1.5% of the micromite value at each output. Otherwise, the Trendicator must be repaired and/or adjusted as necessary, and recalibrated prior to use. (MOE Source Testing Code, Version #2, Method 5)

# ORTECH Environmental Dry Gas Meter Calibration Data

Calibration Procedure Meter Number Date Barometric Pressure	03-J004 Vost 2 January 18, 2016 29.47
System Leak Check	<.005lpm @ 21"Hg

	Attackon		Alabaman and a second	
Vost 2	January 18, 2016	29.47	<.005lpm @ 21"Hg	
mber		ressure	k Check	

COE20028 A01463 A10117 MII NUMBERS Barometer Gasometer DGM

Signature	1000
Reviewed and Accepted By	augela jordan

David Utley

Calibrated By

Pbar (in. Hg)	(Pbar in, Hg+DGMPressure/13.6)
Tdgm °F+460	Tstd °F+460
Vstd ft <sup>3</sup>	Vdgm ft <sup>3</sup>
DGMCF=	

 $ft^3 = cm^* 1.332$  litres per cm/28.3168 litres per  $ft^3$ 

The state of the s
l
ACTION AND ADDRESS OF THE PROPERTY OF THE PROP
And the second s

Cas	Casameter Reading	ame.	Gasometer	Gasonneter Gasometer	DGM	DGM Reading	DGM	DGM Average	DCM		DOS	Lime	Flow
1	cm cm	o i	Volume	Temperature		ر.	Volume		Pressure	Outlet	Calibration		Rate
***************************************	Final	cm	ft <sup>3</sup>	J,	Initial	Final	ff.3	ာ့	in. H <sub>2</sub> 0	ွင	Factor	min.	md
A 40 5 4 5 5 4 5	A ABROOM						***************************************					1	,
06.49	20 00	02 70	1 143	21.0	115.700	147.550	1.125	26.0	2.5	26.0	1.027	32	1.0
07:40	22.70	24:30	CLYTT	2:12			-						
00.00	61 00	25.10	181	21.0	147.550	180.470	1.163	26.0	2.5	26.0	1.026	33	0.1
00:/0	07:10	42:10	10111	2.4			·	mentioneristicities and the market market missing and and an experience of the contract of the					-
83.50	50.70	32.80	1 543	21.0	73.130	115.700	1.503	26.0	2.5	26.0	1.037	43	0.1
07:70	07:00	20120		***************************************			Annual Company of the				and the second s		

DGMCF AVERAGE

1.030

Lpm

Acceptance Criteria:

otherwise the meter must be repaired and/or adjusted as necessary and recalibrated prior to use. (Environment Canada Reference Method EPS 1/RM/8, Section 6) If not the calibration must be repeated. Also, the DGMCF average value must be  $1.00\pm0.05,$ Individual values of DGM calibration factor must be within  $\pm\,1.5\%$  of the average value.

# ORTECH Environmental Trendicator Calibration

Calibration Procedure	03-J005
Trendicator Type	Nutech
MII	A10117
Date	January 18, 2016
Calibrated By	David Utley
Signature	100 Cla
Reviewed and Accepted By	Modela Molan

Fluke Calibrator Output	Tredicator D	isplay Value	Percent Difference
(COE 20024)	Before Adjustment	After Adjustment	
(°C)	(°C)	(°C)	(%)
0	0	NA	0.0
10	10	4	0.0
20	20		0.0
50	50		0.0
75	75		0.0
100	100		0.0
125	125		0.0
150	150		0.0
200	200		0.0
300	300		0.0
400	400		0.0
500	500		0.0
600	601	V	-0.2

NA= No Adjustment

% Difference = (micromite - after adjustment reading)x 100 micromite

#### Acceptance Criteria:

Trendicator display must read within  $\pm$  1.5% of the micromite value at each output. Otherwise, the Trendicator must be repaired and/or adjusted as necessary, and recalibrated prior to use. (MOE Source Testing Code, Version #2, Method 5)



### **APPENDIX 4**

Mercury Analytical Report (5 pages)

## **Sorbent Trap Analysis Report**

 Plant:
 ORTECH Environmental

 Project Number:
 2006129
 Contact:
 David Utley
 Analy

 Phone:
 (905)-822-4120\*235
 Analy

 Date:
 3/4/2016

 Analyst(s):
 Patrick Cook

Turn-around: Standard

Email: dutley@ortech.ca

Method: EPA 7473

Trap ID	AGS Mass (ng)	Section 1 Mass (ng)	Section 2 Mass (ng)	Total Mass (ng)	Section 3 Mass (ng)	Spike Level (ng)	Breakthrough (%)	(%) Spike Recovery	Source	Notes
OL307462		1836	2.7	1839		100	0.15%		T1	
OL299883		1830	0.0	1830			0.00%		T1	
OL299885		1324	0.1	1324		T	0.01%		T2	
OL307498		1604	0.1	1604		250	0.01%		T2	
OL291929		1593	0.0	1593		500	0.00%		Т3	
OL299779		1285	1.6	1287			0.12%		Т3	100
OL299860		1072	2.6	1075			0.24%		T4	
OL307449		2050	0.7	2051		800	0.03%		T4	
OL309700		2784	6.1	2790		1400	0.22%		T5	
OL299950		1342	1.2	1343			0.09%		T5	
OL299784		1298	0.0	1298			0.00%		T6	
OL309715		4585	1.0	4586		3600*	0.02%		T6	*See revised chain of custody

MDL = 1.17 ng
Method Uncertainty = +/- 10%



Analyst: Patrick Cook

File Name: 160303\_PMC\_ORTECH

Analyzer#: 1642 Cell type: Short ng

MDL: 1.17

Date:

3/3/2016

Temperature (°C):

680

Flow Rate (L/min):

1.50

SD: 1.2

	ID#	PF Mass (ng)	AGS Mass (ng)	Section 1 Mass (ng)	Section 2 Mass (ng)	Section 3 Mass (ng)	Section 4 Mass (ng)	Spike Level (ng)	Source:	Notes:
1	OL307462			1836	2.7			100	T1	
2	OL299883			1830	0.0			unspiked		
3	OL299885			1324	0.1			unspiked	T2	
4	OL307498			1604	0.1			250		
5	OL291929			1593	0.0			500	T3	
6	OL299779			1285	1.6			unspiked		
7	OL299860			1072	2.6			unspiked	T4	
8	OL307449			2050	0.7			800		
9	OL309700			2784	6.1			1400	TS	
10	OL299950			1342	1.2			unspiked		
11	OL299784			1298	0.0			unspiked	T6	
12	OL309715			4585	1.0			3600		
13										
14							10000 St. 1000 St. 1			
15										
16					1.00					
17										
18										
19							7			
20									To the second	The state of the s

	Daily Calibration	1*
Lot # Std.	Std. (ng)	Calculated (ng)
J2-MEB569125 B	10	see cal, report
J2-MEB570097 B	100	see cal. report
J2-MEB569148 B	500	see cal. report
J2-MEB569143 B	1000	see cal. report
J2-MEB579071 B	5000	see cal. report
J2-MEB579071 B	10000	see cal, report
		see cal. report
		see cal. report
		see cal, report
		see cal. report

L	Indepen	dent Calibration V	erification**
L	Lot # Std.	Std. (ng)	Calculated (ng)
L	J2-MEB569022 A	500	499,4
_			

l	Respons	e Factor (Method :	30B Only)***
l	Lot # Std.	Std. (ng)	(area count/mass )
-	J2-MEB569125 B	5	59

Immediately report any QA/QC failures or anything suspicious to the QA/QC Manager

Continuing Calibr	ration Verifications	
Lot # Std.	Std. (ng)	Calculated (ng)
182610	100	94.5
182661	100	98.6
J2-MEB579071 B	5000	5319
182615	100	95.5
		<u> </u>
		sign of the same of

\*Performed daily prior to analysis of sorbent traps, QAQC found in the SOP for trap analysis. If a new calibration curve is used a new bench sheet must be filled out

\*\*Performed directly after calibration curve is verified, must come within 10% of expected value

\*\*\*The chosen response factor value must fall in between the lowest point on the calibration curve and the MDL

\*\*\*\*\*Must be performed between every 10 samples and between every analytical batch

\*\*\*\*\*\*Subject to change, for analyst convenience only

	Standard Bank****	T.
Concentration (µg/mL)	Lot #/Bottle ID	Exp. Date
0.1	J2-ME8569125 B	11/1/2010
1	J2-MEB570097 8	11/1/201
10	J2-MEB569148 B	11/1/201
100	J2-MEB579071 B	11/1/201
1000	F2-HG02105 B	5/1/2016
0.1	J2-MEB569125 A	11/1/2016
11	J2-MEB570097 A	11/1/2016
10	J2-MEB569148 A	11/1/2016
100	J2-MEB579071 A	11/1/2016
1000	F2-HG02105 A	11/1/2016
1 (Independent)	H2-HG02130 C	5/1/2016
10 (independent)	J2-MEB569022 A	11/1/2016
100 (Independent)	G2-MEB484061 A	7/1/2016

Pipette identification

OHIO/UMEX

3 2016

# **Calibration Report**

Report created

03.03.2016 18:31:14

Instrument RA915M

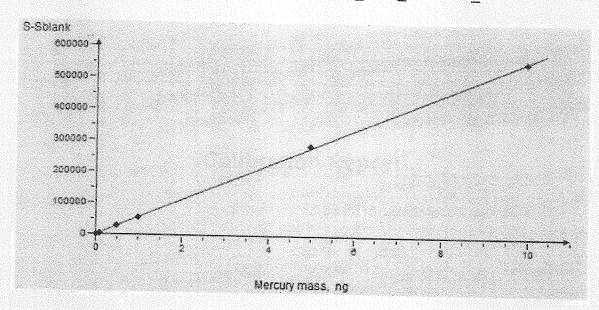
Serial 1642 number

Calibration created

03.03.2016 10:00:06

Calibration name

160303\_PMC\_10-10000\_2



# Results

Mercury mass, ng	S-Sblank	Ref.data, ng/g	Calculated noto	d, %
5.00	286800			
0.50	29210			- Commercial Commercia
10.00	559300			
1.00	56720			
0.10				
0.01	THE RESERVE THE PERSON NAMED IN COLUMN TWO			-1.2 -1.5
	5.00 0.50 10.00 1.00 0.10	5.00     286800       0.50     29210       10.00     559300       1.00     56720       0.10     5553	5.00     286800     5000.0       0.50     29210     500.0       10.00     559300     10000.0       1.00     56720     1000.0       0.10     5553     100.0	5.00         286800         5000.0         5100.4           0.50         29210         500.0         519.5           10.00         559300         10000.0         9947.9           1.00         56720         1000.0         1008.8           0.10         5553         100.0         98.8

Calibration

S - Sblank = a·m

Algorithm

LSM

Correlation coefficient

0.999938

Residual standard deviation

36.408102



# ANALYSIS SAMPLE RETURN FORM

Toll Free: 888-876-2611

Fax: 330-405-0847

FROM:	SHIP TO:
Name: DAUD UTEY	Name: Ohio Lumex Analytical Laboratory
Company: ORTECH	Company: Ohio Lumex Co., Inc.
Date: 853 25/16	Address: 9263 Ravenna Rd., Unit A-3 Twinsburg, OH 44087
Email: Lutter & ortech.ca	Phone: 330-405-0837
Phone Number: 647-212-9184	Fax: 330-405-0847
Number of Sample I.D. Numbers / Special Clie	Sampling Method /

Number of Samples:	Sample I.D. Numbers / Special Client I.D.:	Sampling Method / Important Information / Comments:
12	SEE ATTACHED SAMPLE	3013
	L0G	

Analysis Turna	round Time:	Payment/Billing Information:					
Check One:  □Same Day □Next Day Rush □2nd Day Rush □Standard	Report Type: (Check One)  Standard  Extended	Payment Method: (Check One)  □Purchase Order PO #: 21655 - J 222 (  * Please provide a hard copy of PO when available  □Credit Card  *If paying by credit card, please provide a phone number so that we may contact for the cc#  Phone Number:					
Contacts to Receive Report dutley @ orteo	t: (email) La	Packaging Instructions: Please return traps packaged in their individual plastic tubes accompanied by their unique chain of custody. Place into a cardboard box or tube with enough packaging material that the traps cannot bounce or bend – similarly to how they were delivered.					

### ORTECH Environmental Sample Log Mercury Tube Samples Incinerator Exhaust Stack

Job/Report Number: 21655 Received By: David Utley Job Assigned To: Ohio Lumex

PO #: 21655-J2221

Tube ID	Sample Date	Sample	Approx. Sample Volume m <sup>3</sup>	Sample
***************************************	C C C C	Description	m	Analysis
(307462) Spiked	February 23, 2016	Test 1 Tube A	0.06	Hg
(299883)	February 23, 2016	Test 1 Tube B	0.06	Hg
(299885)	February 23, 2016	Test 2 Tube A	0.06	Hg
(307498) Spiked	February 23, 2016	Test 2 Tube B	0.06	Hg
(291929) Spiked	February 23, 2016	Test 3 Tube A	0.06	Hg
(299779)	February 23, 2016	Test 3 Tube B	0.06	Hg
(299860)	February 23, 2016	Test 4 Tube A	0.06	Hg
(307449)Spiked	February 23, 2016	Test 4 Tube B	0.06	Hg
(309700)Spiked	February 23, 2016	Test 5 Tube A	0.06	Hg
(299950)	February 23, 2016	Test 5 Tube B	0.06	Hg
(299784)	February 23, 2016	Test 6 Tube A	0.06	Hg
(309715) Spiked	February 23, 2016	Test 6 Tube B	0,06	Hg

All tubes sampled at approximately 1 litre/minute for 60 minutes. Expected concentrations are approximatley 200 - 800ng

Relinquished To:	Date:
Relinquished By:	Date: FG3 25/16



### **APPENDIX 5**

Clean Harbors Process Data (18 pages)

		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h
\$Date	\$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT
23/02/2016	9:50:00	32.27	5.83	178.95	187.83	4.07	244.35	14.44	22.51
23/02/2016	9:51:00	32.18	5.85	180.65	187.65	4.20	251.93	14.44	22.36
23/02/2016		31.95	5.55	178.20	187.52	4.17	250.35	14.44	21.86
23/02/2016	9:53:00	31.94	5.46	181.32	187.07	4.23	253.80	14.44	22.52
23/02/2016		32.10	5.15	179.75	187.02	4.19	251.63	14.44	21.76
23/02/2016		32.09	5.57	180.47	187.02	3.96	237.53	14.44	21.92
23/02/2016		31.98	5.34	180.00	187.61	3.93	235.80	14.44	21.99
23/02/2016	9:57:00	32.42	5.68	181.89	187.70	3.99	239.48	14.44	21.94
23/02/2016	9:58:00	32.25	5.61	180.18	187.70	4.13	247.58	14.44	21.87
23/02/2016	9:59:00	32.27	5.14	179.52	188.46	3.89	233.18	14.44	22.00
23/02/2016	10:00:00	32.42	5.21	180.84	187.83	4.19	251.48	14.44	22.33
23/02/2016	10:01:00	31.97	5.55	180.37	188.37	4.10	245.78	14.44	21.97
23/02/2016	10:02:00	32.28	5.68	179.81	187.88	4.20	252.23	14.44	22.28
23/02/2016	10:03:00	31.85	5.64	181.18	187.88	4.24	254.25	14.44	22.10
23/02/2016	10:04:00	32.09	5.35	179.85	187.20	3.82	229.43	14.44	21.95
23/02/2016	10:05:00	32.12	5.68	179.94	187.47	4.04	242.33	14.44	21.78
23/02/2016	10:06:00	32.31	5.95	180.14	188.19	4.17	250.05	14.44	22.12
23/02/2016	10:07:00	32.30	5.43	180.80	188.24	4.11	246.30	14.44	21.79
23/02/2016		32.22	5.59	179.94	188.24	4.13	247.95	14.44	21.81
23/02/2016	10:09:00	32.45	5.73	181.61	188.06	4.08	244.95	14.44	21.79
23/02/2016	10:10:00	31.98	5.65	177.91	187.52	4.22	253.13	14.44	22.60
23/02/2016		32.21	5.33	181.08	187.52	3.97	238.43	14.44	22.59
23/02/2016		31.85	4.92	179.85	186.93	4.07	244.20	14.44	21.78
23/02/2016		32.00	5.06	179.19	187.56	3.98	239.03	14.44	22.34
23/02/2016		32.09	4.78	180.05	187.56	4.11	246.60	14.44	22.46
23/02/2016		32.19	5.30	179.94	188.51	4.15	249.08	14.44	22.36
23/02/2016		32.22	5.32	180.95	187.97	4.16	249.60	14.44	22.62
23/02/2016		32.22	5.50	180.52	188.01	4.25	254.85	14.44	21.78
23/02/2016		32.18	5.33	180.37	188.87	4.20	252.23	14.44	21.73
23/02/2016		32.64	5.58	181.08	188.15	4.24	254.63	14.44	22.18
23/02/2016		32.51	5.38	179.90	188.19	4.12	247.35	14.44	22.49
23/02/2016 23/02/2016		32.46 32.42	5.48 5.10	181.85 179.04	188.19 187.11	4.17 4.02	249.90 241.13	14.44 14.44	22.31 21.84
23/02/2016		32.63	5.51	180.18	187.11	3.95	236.85	14.44	22.47
23/02/2016		32.19	5.23	180.18	187.92	3.88	232.80	14.44	21.87
23/02/2016		32.16	5.17	178.62	187.70	4.19	251.33	14.44	22.57
23/02/2016		32.42	5.04	180.37	187.07	4.20	252.15	14.44	22.33
23/02/2016		32.48	5.29	180.18	187.16	4.20	252.23	14.44	22.13
23/02/2016		32.30	5.14	180.75	187.34	4.03	241.65	14.44	21.86
23/02/2016		32.22	4.93	180.42	187.88	4.11	246.83	14.44	22.54
23/02/2016		32.54	4.86	180.33	187.34	4.22	253.43	14.44	22.46
23/02/2016		32.76	4.99	180.37	187.38	4.08	244.95	14.44	22.33
23/02/2016		32.67	5.09	180.80	187.43	4.07	244.20	14.44	21.86
23/02/2016		32.27	5.33	181.14	188.01	4.12	247.20	14.44	22.44
23/02/2016			5.18	180.09	187.47	4.17	249.98	14.44	21.84
23/02/2016	10:35:00	32.72	5.21	180.24	188.10	3.67	220.05	14.44	22.20
23/02/2016	10:36:00	32.61	4.93	180.52	188.10	4.20	251.70	14.44	22.00
23/02/2016	10:37:00	32.63	5.09	180.99	188.19	4.24	254.63	14.44	22.05
23/02/2016	10:38:00	32.81	5.24	181.14	188.19	4.24	254.63	14.44	21.73
23/02/2016	10:39:00	32.58	5.14	179.66	188.28	4.28	256.88	14.44	21.81
23/02/2016	10:40:00	32.99	5.13	180.80	188.15	4.27	255.90	14.44	21.78
23/02/2016	10:41:00	32.72	5.16	180.37	188.06	4.20	252.15	14.44	22.52
23/02/2016			5.08	179.66	187.92	4.11	246.45	14.44	22.47
23/02/2016			4.93	179.62	187.43	4.08	244.50	14.44	22.46
23/02/2016			4.81	180.37	187.47	3.89	233.48	14.44	21.74
23/02/2016			4.98	179.85	187.70	3.93	235.88	14.44	21.99
23/02/2016			5.01	180.90	187.74	4.21	252.30	14.44	22.56
23/02/2016			5.16	179.81	188.33	3.96	237.38	14.44	21.92
23/02/2016			5.26	180.71	187.70	3.72	222.90	14.44	22.34
23/02/2016			5.24	180.37	189.00	3.86	231.30	14.44	21.92
23/02/2016	10:50:00	32.63	5.21	179.94	187.56	3.91	234.83	14.44	22.49

February 23/2016	Waste Flow	Waste Flows									
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow			
Test1	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT			
Max	32.99	5.95	181.89	189.00	4,28	256.88	14.44	22.62			
Min	31.85	4.78	177.91	186.93	3.67	220.05	14.44	21.73			
Average	32.37	5.29	180.26	187.79	4.09	245.39	14.44	22.14			
Variance	0.09	0.08	0.60	0.20	0.02	69.87	0.00	0.09			

	[	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
	Ì	m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
\$Date	\$Time	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
23/02/2016	9:50:00	24018.2	15449.5	96696.0	1383.1	708.4	501.2	200.0	195.7	-8.65	-29.25	-130.13	189.25
23/02/2016	9:51:00	24025.1	15567.5	93796.0	1383.5	708.2	501.1	200.0	195.7	-4.05	-20.50	-124.58	214.06
23/02/2016	9:52:00	24287.7	15483.2	97657.0	1386.8	709.1	501.1	199.5	195.7	-8.45	-28.70	-134.59	196.94
23/02/2016	9:53:00 9:54:00	23928.3 24108.0	15483.2 15472.0	91947.0 96481.0	1386.6	706.4 707.9	501.1 501.2	199.5 199.5	195.7 195.7	-2.95 -8.30	-18.70 -28.50	-118.54 -134.66	239.69 193.19
23/02/2016 23/02/2016	9:55:00	23928.3	15472.0	92748.0	1384.9 1385.4	707.9	501.2	199.5	195.7	-2.40	-19.85	-134.66	243.06
23/02/2016	9:56:00	24280.8	15472.0	97145.0	1385.1	708.1	501.1	199.0	195.7	-8.50	-28.25	-137.14	197.63
23/02/2016	9:57:00	23928.3	15472.0	94268.0	1384.9	705.9	501.4	199.0	195.7	-4.40	-21.30	-123.90	234.69
23/02/2016	9:58:00	24280.8	15370.9	97091.0	1389.1	709.7	501.3	199.0	195.7	-9.00	-28.50	-138.75	190.88
23/02/2016	9:59:00	24025.1	15342.8	92600.0	1387.6	707.7	501.2	199.5	195.7	-4.60	-19.20	-125.59	216.00
23/02/2016	10:00:00	24370.7	15348.4	97489.0	1388.4	706.4	501.5	199.5	195.7	-10.50	-30.20	-139.58	196.50
23/02/2016	10:01:00	24025.1	15348.4	93233.0	1389.1	707.7	501.8	200.0	195.7	-3.00	-20.00	-120.15	238.13
23/02/2016	10:02:00	24370.7	15505.7	97478.0	1391.1	706.8	501.8	199.5	195.7	-10.00	-29.65	-140.21	196.00
23/02/2016	10:03:00	24018.2	15370.9	91933.0	1388.9	705.2	501.8	199.5	195.7	-2.05	-17.95	-119.70	237.38
23/02/2016	10:04:00	24280.8	15472.0	96122.0	1388.1	706.7	502.0	199.5	195.7	-9.25	-29.00	-142.13	196.00
23/02/2016	10:05:00	24280.8	15472.0	93639.0	1386.9	706.2	502.1	200.0	195.7	-3.90	-21.25	-125.10	227.94
23/02/2016	10:06:00	24280.8	15606.8	96412.0	1388.3	706.8 706.5	502.3 502.3	200.0 200.0	196.9 195.8	-5.85 -2.85	-23.00 -19.40	-137.33 -123.90	203.63
23/02/2016 23/02/2016	10:07:00 10:08:00	24018.2 24191.0	15342.8 15539.4	93308.0 94077.0	1385.4 1388.3	707.6	502.3	200.0	195.8	-2.85 -4.15	-19.40	-123.90	212.75 234.06
23/02/2016	10:09:00	24191.0	15365.2	92209.0	1385.6	706.5	502.4	200.0	195.8	-2.85	-17.95	-119.29	234.08
23/02/2016	10:10:00	24197.9	15466.4	93985.0	1387.4	707.0	502.6	200.0	196.9	-6.20	-22.10	-131.55	233.94
23/02/2016	10:11:00	23575.8	15466.4	92198.0	1389.1	706.8	502.5	200.0	195.8	-2.65	-18.10	-118.09	237.44
23/02/2016	10:12:00	24280.8	15460.7	94420.0	1387.1	708.9	502.7	199.5	195.8	-6.85	-24.60	-135.75	223.63
23/02/2016	10:13:00	24025.1	15443.9	92621.0	1388.3	708.5	502.7	200.0	195.8	-4.30	-20.50	-124.43	231.38
23/02/2016	10:14:00	24018.2	15449.5	94390.0	1388.3	710.0	502.7	200.0	196.9	-5.05	-23.80	-131.51	208.13
23/02/2016	10:15:00	23748.6	15477.6	93738.0	1386.9	707.5	503.1	200.0	196.9	-3.80	-21.40	-123.68	212.31
23/02/2016	10:16:00	24280.8	15382.1	92790.0	1385.4	705.5	503.0	200.5	195.8	-5.30	-21.80	-125.89	230.88
23/02/2016	10:17:00	23665.6	15404.6	92511.0	1387.1	707.5	503.1	200.5	195.8	-2.20	-17.80	-119.10	238.81
23/02/2016	10:18:00	23838.4	15376.5	92612.0	1391.8	706.1	503.2	200.0	195.8	-3.55	-18.95	-125.85	234.56
23/02/2016		23845.3	15477.6	92847.0	1394.4	707.8	503.2	200.5	195.8	-2.95	-19.60	-119.59	239.38
23/02/2016		24197.9	15488.8	94454.0	1393.1	707.7	503.2	200.0	195.8	-5.85	-23.40	-129.60	226.13
23/02/2016		23838.4	15213.5	93736.0	1394.0	708.2	503.3	200.5	197.0	-3.25	-20.90	-123.68	229.50
23/02/2016		24108.0	15494.4	94165.0	1396.1	708.0	503.7	200.5	197.0	-5.55	-22.95	-127.76	211.44
23/02/2016 23/02/2016	10:23:00 10:24:00	24101.1 23935.2	15477.6 15488.8	93505.0 92761.0	1398.9 1395.0	707.8 708.3	503.6 503.6	200.5 201.0	197.0 197.0	-3.80 -2.60	-20.60 -21.70	-121.91 -122.21	215.00 234.69
23/02/2016		23755.5	15297.8	91404.0	1398.3	708.3	504.0	200.5	197.0	-2.50	-17.35	-116.85	234.69
23/02/2016		24018.2	15404.6	92400.0	1395.4	708.8	503.9	200.5	197.0	-3.20	-20.45	-122.36	235.31
23/02/2016		23672.5	15398.9	91467.0	1396.9	708.8	503.8	200.5	197.0	-1.80	-17.85	-117.11	240.13
23/02/2016		24018.2	15477.6	92597.0	1394.0	708.9	503.9	200.5	197.0	-4.75	-21.60	-128.40	227.00
23/02/2016	10:29:00	23838.4	15516.9	91849.0	1395.1	708.0	504.0	200.5	197.0	-3.00	-20.15	-121.76	229.38
23/02/2016	10:30:00	24108.0	15438.3	94222.0	1394.4	708.9	504.0	201.0	197.0	-4.75	-23.80	-128.06	213.31
23/02/2016	10:31:00	23845.3	15449.5	93682.0	1396.5	707.9	504.4	201.0	197.0	-3.45	-21.20	-123.71	220.44
23/02/2016	10:32:00	23845.3	15449.5	92269.0	1395.8	708.6	504.5	201.0	197.0	-2.90	-21.00	-124.39	239.38
23/02/2016		23665.6	15522.5	92529.0	1398.9	708.4	504.5	201.0	197.0	-2.40	-18.85	-119.03	243.88
23/02/2016		23928.3	15421.4	92945.0	1398.9	708.2	504.6	201.0	197.0	-1.75	-20.45	-122.48	240.69
23/02/2016		23755.5	15556.2	91428.0	1401.4	706.9	504.4	201.0	197.0	-1.15	-19.00	-116.85	246.94
23/02/2016		23845.3	15494.4	93935.0	1399.8	705.7	504.7	201.0	197.0	-2.90	-22.15	-126.23	235.44
23/02/2016		24018.2	15365.2	92772.0	1399.8	707.8	504.7	201.5	198.1	-2.80	-22.00	-122.93	240.38
23/02/2016 23/02/2016		24197.9 24018.2	15590.0 15477.6	93100.0 92504.0	1398.4 1399.9	706.0 709.9	504.9 505.1	202.0 202.0	198.1 198.1	-4.00 -3.35	-20.75 -20.65	-126.94 -122.74	217.06 227.25
23/02/2016		23928.3	15477.6	92909.0	1400.9	703.3	505.3	202.0	198.1	-3.55	-19.80	-120.86	242.88
23/02/2016		23845.3	15584.3	91974.0	1400.9	706.3	505.4	202.0	198.1	-1.30	-18.25	-118.61	242.88
23/02/2016		23928.3	15376.5	93849.0	1398.3	705.9	505.4	202.0	198.1	-2.20	-18.55	-119.14	243.13
23/02/2016		23928.3	15494.4	91340.0	1402.4	706.7	505.7	202.0	198.1	-0.70	-18.20	-117.98	251.81
23/02/2016		24025.1	15438.3	92856.0	1402.8	708.4	505.9	202.0	198.1	-4.05	-20.15	-125.89	232.75
23/02/2016		23845.3	15438.3	92083.0	1408.9	706.7	505.8	202.5	198.1	-2.90	-19.65	-122.70	223.19
23/02/2016			15460.7	94638.0	1410.6	709.2	506.1	202.5	198.1	-4.10	-22.75	-126.53	209.38
23/02/2016	10:47:00	24018.2	15460.7	93434.0	1411.1	708.0	506.3	202.5	198.1	-2.95	-20.80	-131.03	192.25
23/02/2016	10:48:00	23935.2	15421.4	92376.0	1412.3	707.5	506.4	203.0	198.1	-2.55	-19.45	-121.39	232.06
23/02/2016			15415.8	94642.0	1418.0	706.7	506.3	202.5	198.1	-5.85	-28.30	-129.71	188.94
23/02/2016	10:50:00	23845.3	15370.9	92386.0	1407.5	707.8	506.1	202.5	198.1	-2.05	-19.20	-120.94	233.06

February 23/2016	Air Flows			Temperatures					Pressures			TO STATE OF THE PARTY OF THE PA
	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test1	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	24370.7	15606.8	97657.0	1418.0	710.0	506.4	203.0	198.1	-0.70	-17.35	-116.85	251.81
Min	23575.8	15213.5	91340.0	1383.1	705.2	501.1	199.0	195.7	-10.50	-30.20	-142.13	188.94
Average	23998.8	15447.9	93584.5	1394.1	707.6	503.4	200.6	196.7	-4.20	-21.68	-125.61	224.54
Variance	35984.8	5144.7	2751236.8	65.8	1.3	2.6	1.1	0.9	5.29	11.90	41.99	305.21

		со	HCI	CO2	H2O	THC	02	Opacity	SO2
		PPM	PPM	%	% %	PPM	%	%	PPM
\$Date	\$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
23/02/2016	9:50:00	55.6	32.08	9.58	40.06	25.7	12.23	1.46	633.3
23/02/2016	9:51:00	49.3	32.86	9.47	40.06	21.7	12.11	1.41	622.1
23/02/2016	9:52:00	49.6	31.78	9.38	40.06	23.2	12.06	1.47	614.0
23/02/2016	9:53:00	48.8	31.47	9.41	40.06	21.2	12.19	1.43	617.4
23/02/2016	9:54:00	50.2	31.34	9.46	40.06	24.8	12.24	1.66	622.7
23/02/2016	9:55:00	55.4	30.64	9.47	40.06	21.8	12.23	1.36	627.0
23/02/2016	9:56:00	52.7	30.88	9.44	40.06	26.8	12.18	1.56	623.4
23/02/2016	9:57:00	58.3	32.16	9.55	40.06	21.9	12.26	1.42	633.1
23/02/2016	9:58:00	57.6	31.32	9.52	40.06	24.5	12.22	1.46	628.1
23/02/2016	9:59:00	53.7	31.47	9.46	40.06	21.7	12.13	1.42	622.2
23/02/2016	10:00:00	49.3	30.76	9.32	40.06	23.2	12.01	1.55	607.0
23/02/2016	10:01:00 10:02:00	50.6 50.6	30.42	9.48	40.06	24.0	12.20	1.47	622.9
23/02/2016 23/02/2016	10:02:00	56.5	30.16 30.97	9.53 9.59	40.06 40.06	25.5 22.3	12.23 12.21	1.67 1.38	627.9 634.8
23/02/2016	10:03:00		31.14	9.59	40.06	25.1	12.21	1.65	629.4
23/02/2016		53.3	31.51	9.54	40.06	22.6	12.15	1.42	632.9
23/02/2016			31.32	9.54	40.06	24.8	12.13	1.50	630.0
23/02/2016			31.04	9.43	40.06	22.7	12.02	1.42	618.3
23/02/2016			30.27	9.33	40.06	24.8	11.98	1.55	611.9
23/02/2016	10:09:00	53.7	30.82	9.45	40.06	24.0	12.10	1.47	619.3
23/02/2016		59.6	31.24	9.55	40.06	25.4	12.17	1.60	626.5
23/02/2016			30.21	9.53	40.06	23.2	12.10	1.42	626.9
23/02/2016	10:12:00	55.8	30.08	9.50	40.06	23.5	12.09	1.63	625.5
23/02/2016	10:13:00	53.8	31.41	9.56	40.06	23.3	12.13	1.42	630.7
23/02/2016	10:14:00	51.5	31.81	9.56	40.06	22.1	12.10	1.52	631.5
23/02/2016	10:15:00	50.0	31.64	9.45	40.06	23.7	12.01	1.46	619.2
23/02/2016	10:16:00	49.9	29.85	9.28	40.06	23.2	11.93	1.50	602.6
23/02/2016			29.89	9.45	40.06	26.6	12.13	1.57	616.1
23/02/2016			32.18	9.57	40.06	27.1	12.20	1.73	628.6
23/02/2016			32.37	9.56	40.06	27.3	12.14	1.38	624.6
23/02/2016			31.78	9.58	40.06	26.1	12.15	1.65	629.6
23/02/2016			30.94	9.59	40.06	23.7	12.11	1.42	630.2
23/02/2016			31.33	9.59	40.06	23.6	12.07	1.47	630.2
23/02/2016			31.25	9.46	40.06	24.4	11.92	1.42	620.8
23/02/2016 23/02/2016			29.74 29.75	9.47 9.58	40.06 40.06	22.4 27.4	11.97 12.05	1.52 1.57	619.1 625.7
23/02/2016			30.16	9.56	40.06	27.4	12.03	1.45	631.6
23/02/2016			29.61	9.51	40.06	25.3	11.99	1.45	625.5
23/02/2016			30.02	9.48	40.06	24.3	11.97	1.48	625.5
23/02/2016			30.39	9.57	40.06	24.8	12.02	1.42	630.0
23/02/2016			31.03	9.53	40.06	21.2	11.97	1.41	627.0
23/02/2016			30.47	9.33	40.06	23.1	11.82	1.42	605.4
23/02/2016	10:32:00		30.05	9.32	40.06	21.0	11.86	1.45	607.7
23/02/2016	10:33:00		30.03	9.49	40.06	26.7	12.05	1.51	620.0
23/02/2016	10:34:00	74.9	30.69	9.58	40.06	22.1	12.10	1.40	625.6
23/02/2016	10:35:00	72.4	30.78	9.54	40.06	29.1	12.05	1.37	623.9
23/02/2016	10:36:00	70.3	30.63	9.58	40.06	21.4	12.07	1.42	632.9
23/02/2016	10:37:00	66.1	31.21	9.62	40.06	28.2	12.05	1.43	634.3
23/02/2016			31.33	9.51	40.06	21.4	11.95	1.37	626.0
23/02/2016			30.82	9.44	40.06	27.1	11.88	1.42	616.7
23/02/2016			30.91	9.50	40.06	23.1	11.94	1.42	617.6
23/02/2016			31.33	9.58	40.06	25.3	12.00	1.45	627.5
23/02/2016			31.80	9.63	40.06	21.2	12.04	1.36	635.8
23/02/2016			30.80	9.56	40.06	28.0	11.96	1.36	632.9
23/02/2016			31.18	9.63	40.06	20.9	11.98	1.42	637.0
23/02/2016			31.44	9.59	40.06	24.9	11.93	1.42	633.5
23/02/2016			31.38	9.51	40.06	20.0	11.86	1.40	628.4
00 (00 /		50.4	31.47	9.32	40.06	23.7	11.77	1.38	613.8
23/02/2016					10.00	22	44.00		~ ~ ~ ~
23/02/2016	10:48:00	49.3	31.57	9.41	40.06	22.7	11.89	1.45	619.1
-	10:48:00 10:49:00	49.3 61.1		9.41 9.58 9.59	40.06 40.06 40.06	22.7 27.6 21.9	11.89 12.03 12.01	1.45 1.46 1.33	619.1 627.2 634.3

February 23/2016	Analyzers			ACCRECATION OF THE OWNER, THE OWN	CCOMMON COMMON C			M. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
	СО	HCI	CO2	H2O	THC	O2	Opacity	SO2
Test1	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	75.2	33.19	9.63	40.06	29.1	12.26	1.73	637.0
Min	48.8	29.61	9.28	40.06	20.0	11.77	1.33	602.6
Average	59.4	31.05	9.50	40.06	24.0	12.06	1.47	624.7
Variance	61.8	0.60	0.01	0.00	4.6	0.01	0.01	61.5

		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h
\$Date	\$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT
23/02/2016	11:53:00	31.37	5.14	180.37	187.38	4.11	246.83	14.66	21.69
23/02/2016	11:54:00	31.26	4.93	181.70	186.80	3.88	232.65	14.66	22.49
23/02/2016	11:55:00	31.28	4.94	180.61	187.34	4.21	252.60	14.66	21.79
23/02/2016	11:56:00	31.19	5.42	179.94	187.34	3.88	232.65	14.66	22.02
23/02/2016	11:57:00	31.29	5.05	181.08	187.07	4.05	243.00	14.66	22.62
23/02/2016	11:58:00	31.31	5.22	178.85	187.02	4.21	252.60	14.66	22.10
23/02/2016	11:59:00	31.70	5.39	181.98	187.16	4.14	248.18	14.66	21.76
23/02/2016	12:00:00	31.46	5.41	180.05	187.83	4.15	249.08	14.66	22.52
23/02/2016	12:01:00	31.43	5.45	180.71	187.70	4.25	254.70	14.66	22.30
23/02/2016	12:02:00	31.46	5.58	179.85	187.92	4.02	241.35	14.66	22.13
23/02/2016	12:03:00	31.49	5.47	181.08	188.19	4.18	250.95	14.66	22.08
23/02/2016	12:04:00	31.49	5.52	179.62	187.83	4.12	247.20	14.66	22.44
23/02/2016		31.44	5.30	180.47	187.79	4.03	241.65	14.66	22.57
23/02/2016		31.50	5.00	179.10	187.16	3.94	236.18	14.66	22.02
23/02/2016		31.32	5.23	179.94	187.16	4.03	242.03	14.66	22.57
23/02/2016		31.23	5.23	178.72	187.43	4.28	256.50	14.66	22.05
23/02/2016		31.38	5.26	180.99	187.38	4.26	255.38	14.66	22.30
23/02/2016		31.34	4.76	179.52	186.75	4.09	245.63	14.66	21.86
23/02/2016		31.58	4.77	180.90	187.92	4.24	254.10	14.66	21.73
23/02/2016		31.46	4.74	179.62	188.24	4.27	255.90	14.66	22.60
23/02/2016		31.65	4.82	179.15	187.61	4.21	252.75	14.66	22.49
23/02/2016		31.22	4.79	179.24	187.25	4.29	257.25	13.65	21.86
23/02/2016		31.62	5.06	181.42	187.88	4.17	250.13	14.93	21.73
23/02/2016		31.65	4.88	179.52	188.55	3.81	228.75	14.93	21.74
23/02/2016		31.80	5.32	181.42	188.69	3.84	230.33	14.93	21.79
23/02/2016		31.49	4.82	180.24	188.51	3.95	237.23	14.93	22.57
23/02/2016			4.82 4.94	180.24	187.92	3.91	234.68	14.93	22.44
		31.77				3.99	239.33	14.93	22.44
23/02/2016		31.43	4.86	178.62	187.92		239.33	14.93	21.79
23/02/2016		31.47	4.84	181.18	188.51	4.00			
23/02/2016		31.50	4.69	180.00	187.70	4.18	250.88	14.93	21.78
23/02/2016		31.20	4.50	180.00	187.07	4.20	252.15	14.93	21.82
23/02/2016		31.07	4.79	180.80	187.02	4.24	254.18	14.93	21.76
23/02/2016		31.40	4.52	179.38	186.98	4.21	252.83	14.78	22.54
23/02/2016		31.46	4.68	179.24	187.52	4.26	255.68	14.78	22.46
23/02/2016		31.26	4.78	181.18	187.65	3.90	233.93	14.78	22.59
23/02/2016		31.32	4.70	180.33	187.65	3.95	237.15	14.78	21.78
23/02/2016		31.68	5.04	180.24	188.24	4.17	250.05	14.78	21.81
23/02/2016		31.44	4.87	181.08	188.46	3.99	239.25	14.78	22.39
23/02/2016		31.43	5.11	179.57	188.55	4.25	255.23	14.78	22.46
23/02/2016		31.47	4.88	180.14	188.01	4.12	247.28	14.78	21.81
23/02/2016		31.62	4.99	180.61	188.15	4.19	251.48	14.78	22.08
23/02/2016		31.38	5.11	180.28	188.28	4.22	253.13	14.78	21.76
23/02/2016	12:35:00	31.22	5.19	179.81	187.74	4.08	244.95	13.73	21.78
23/02/2016	12:36:00	31.22	5.06	180.28	187.79	4.20	252.23	14.74	22.51
23/02/2016	12:37:00	31.31	5.19	180.24	187.79	3.91	234.38	14.74	22.44
23/02/2016	12:38:00	31.53	5.13	180.18	187.74	3.88	232.88	14.74	22.44
23/02/2018	12:39:00	31.20	5.13	180.28	187.74	4.11	246.30	14.66	22.44
23/02/2016	12:40:00	31.40	5.33	181.04	187.74	3.95	236.78	14.66	22.07
23/02/2016	12:41:00	31.65	5.28	179.94	188.24	4.28	256.95	14.66	22.57
23/02/2016	12:42:00	31.58	5.29	181.27	188.24	4.13	247.80	14.66	21.76
23/02/2016	12:43:00	31.38	5.48	180.99	188.24	4.25	255.15	14.66	22.62
23/02/2016		31.52	5.35	184.74	188.15	4.23	253.80	14.66	22.47
23/02/2016	12:45:00	31.50	5.56	180.75	188.15	4.10	246.23	14.66	22.07
23/02/2016		31.32	5.48	182.55	188.10	4.16	249.75	14.66	22.31
23/02/2016		31.46	5.35	181.65	188.78	4.15	249.08	14.66	21.87
23/02/2016		31.53	5.27	182.45	188.24	4.26	255.53	14.66	21.91
23/02/2016		31.47	5.41	181.85	188.24	4.26	255.75	14.66	22.46
23/02/2016		31.13	5.22	182.13	188.24	4.12	247.13	14.66	22.52
23/02/2016		31.25	5.26	181.80	188.87	3.79	227.55	14.66	22.49
23/02/2010		31.34	5.22	182.51	188.15	4.28	256.50	14.66	22.59
23/02/2010							258.23	14.66	21.81
23/UZ/ZUI	12:53:00	31.19	5.23	179.94	187.56	4.30	438.43	14.00	21.01

February 23/2016	Waste Flow	'S				n en		Flows
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow
Test1	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT
Max	31.80	5.58	184.74	188.87	4.30	258.23	14.93	22.62
Min	31.07	4.50	178.62	186.75	3.79	227.55	13.65	21.69
Average	31.42	5.10	180.54	187.82	4.11	246.71	14.70	22.17
Variance	0.03	0.07	1.20	0,26	0.02	71.78	0.04	0.11

		Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
\$Date	\$Time	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
23/02/2016	11:53:00	23845.3	15545.0	93593.0	1350.9	709.6	495.5	195.5	192.2	-5.05	-22.40	-127.16	229.50
23/02/2016	11:54:00	23845.3	15584.3	98934.0	1350.4	709.9	495.4	195.5	192.2	-11.35	-32.80	-145.95	179.94
23/02/2016	11:55:00	23935.2	15427.0	94514.0	1348.8	709.8	495.6	195.5	192.2	-6.15	-21.95	-131.59	219.56
23/02/2016		24197.9	15578.7	98942.0	1347.1	709.9	495.7	195.5	193.2	-12.00	-33.10	-147.53	175.06
23/02/2016		24018.2	15516.9	94852.0	1341.3	708.9	495.5	196.0	193.2	-6.15	-25.00	-131.59	203.56
23/02/2016		24114.9	15516.9	98415.0	1340.6	710.4	495.5	196.0	193.2	-11.75	-34.05	-149.96	189.31
23/02/2016		23755.5	15528.2	95105.0	1342.3	708.9	495.6	196.0	193.2	-3.40	-21.80	-127.84	227.69
23/02/2016		24287.7	15477.6	98740.0	1348.0	708.3	495.5	195.5	193.2	-11.95	-34.00	-151.61	189.06
23/02/2016		23935.2	15325.9	93626.0	1347.8	709.3	495.7	195.5	193.2	-3.40	-22.40	-127.20	229.63
23/02/2016 23/02/2016		24025.1 23672.5	15432.7	97719.0	1350.4	706.9	495.6	195.5	192.1	-12.60	-34.15	-151.31	186.94
23/02/2016		24197.9	15432.7 15573.1	93504.0 97876.0	1349.3 1350.8	710.0 709.8	495.4 495.4	195.5 195.5	193.4 193.3	-6.75 -10.60	-23.80 -30.25	-130.88	222.81
23/02/2016		23935.2	15623.7	94317.0	1347.3	709.8	495.5	195.5	193.3	-6.35	-30.23 -24.85	-144.83 -129.86	202.38 208.69
23/02/2016		24377.6	15516.9	95280.0	1347.6	708.4	495.7	196.0	193.3	-8.05	-24.83	-125.86	230.25
23/02/2016		24025.1	15376.5	94700.0	1344.4	710.4	495.6	196.0	193.0	-4.70	-20.75	-128.44	244.06
23/02/2016		24377.6	15601.2	94517.0	1347.3	711.4	495.6	196.0	193.0	-8.45	-25.80	-139.50	245.25
23/02/2016		24025.1	15432.7	94534.0	1345.8	709.2	495.5	196.0	193.0	-4.35	-22.85	-126.53	249.50
23/02/2016		24280.8	15488.8	96571.0	1345.6	709.9	495.4	195.5	193.0	-11.90	-32.20	-147.45	224.38
23/02/2016	12:11:00	23935.2	15634.9	94297.0	1343.4	710.4	495.4	196.0	192.9	-4.90	-21.85	-130.80	235.94
23/02/2016	12:12:00	24377.6	15533.8	96165.0	1344.8	711.0	495.5	195.5	192.9	-7.10	-26.60	-138.64	220.75
23/02/2016	12:13:00	24025.1	15550.6	94987.0	1344.0	710.8	495.3	195.5	192.9	-7.45	-26.20	-132.90	231.56
23/02/2016	12:14:00	24197.9	15511.3	95232.0	1344.5	709.4	494.9	195.5	192.9	-8.25	-26.70	-133.39	249.06
23/02/2016		24108.0	15494.4	94649.0	1341.3	710.5	495.0	195.5	192.9	-4.80	-22.25	-125.44	246.81
23/02/2016		24114.9	15612.4	95169.0	1343.3	711.3	494.6	195.0	192.9	-5.35	-26.25	-133.69	239.25
23/02/2016		23845.3	15365.2	94531.0	1350.1	709.7	494.5	195.0	192.9	-3.65	-21.20	-124.73	244.31
23/02/2016		23935.2	15415.8	94714.0	1347.0	709.1	494.3	194.5	191.7	-9.05	-29.00	-137.96	231.00
23/02/2016		23935.2	15443.9	94106.0	1349.8	710.4	494.3	194.5	192.9	-7.15	-25.10	-130.95	238.88
23/02/2016		23935.2	15590.0	96054.0	1348.6	711.7	494.0	194.5	192.9	-6.85	-26.90	-136.65	220.38
23/02/2016		24025.1	15528.2	93437.0	1347.3	710.6	493.8	194.5	192.9	-6.05	-25.35	-131.29	222.63
23/02/2016 23/02/2016		24032.0 23928.3	15387.7 15573.1	94276.0 94398.0	1350.0 1351.3	708.6 709.5	493.8 493.4	194.5 194.5	192.9 192.8	-6.30 -5.20	-24.50 -24.75	-133.46 -126.98	236.69
23/02/2016		23928.3	15443.9	94035.0	1331.3	710.4	493.4	194.0	191.8	-6.35	-24.75	-126.98	244.88 244.75
23/02/2016		23755.5	15561.9	93597.0	1347.8	709.6	493.2	194.0	191.8	-4.10	-20.55	-125.74	244.73
23/02/2016		24384.5	15533.8	94815.0	1344.0	710.1	493.2	194.0	191.8	-7.25	-25.60	-135.90	230.31
23/02/2016		24025.1	15421.4	94000.0	1345.1	708.9	492.9	194.0	191.8	-4.80	-24.05	-128.85	233.31
23/02/2016		24204.8	15421.4	95068.0	1343.4	709.6	492.9	194.0	191.8	-7.75	-26.30	-135.86	213.00
23/02/2016	12:29:00	24108.0	15421.4	94480.0	1342.3	709.4	492.9	194.0	191.8	-6.35	-24.80	-131.21	220.25
23/02/2016	12:30:00	24025.1	15421.4	93453.0	1342.8	708.5	492.8	194.0	191.8	-6.05	-21.65	-130.50	235.06
23/02/2016	12:31:00	23845.3	15556.2	94839.0	1345.0	710.8	492.7	193.5	191.8	-3.75	-21.10	-125.96	242.69
23/02/2016		24114.9	15556.2	93864.0	1343.0	710.1	492.6	193.5	191.8	-5.30	-25.45	-129.83	242.81
23/02/2016		23935.2	15427.0	92723.0	1343.8	710.1	492.3	193.5	191.8	-4.40	-21.70	-125.14	250.13
23/02/2016		24197.9	15483.2	95578.0	1341.9	710.3	492.2	193.0	191.8	-5.40	-24.85	-134.06	230.56
23/02/2016		23935.2	15494.4	94839.0	1340.9	709.7	492.0	193.0	191.9	-5.40	-26.25	-129.68	236.25
23/02/2016		24287.7	15494.4	94880.0	1340.6	708.3	491.9	193.0	191.9	-7.65 r.cs	-27.05	-134.89	209.94
23/02/2016		24108.0	15398.9	94252.0	1337.9	711.4	491.9	193.0	191.9	-5.65	-24.60	-131.44	214.19
23/02/2016 23/02/2016		24025.1 23762.4	15460.7	94459.0 93598.0	1335.9	708.2 707.7	492.0	193.5	191.9	-6.45	-24.80	-130.46	234.31
23/02/2016		23852.3	15455.1 15460.7	93398.0	1338.5 1338.4	707.7	491.9 491.6	193.0 193.0	190.8 191.2	-4.50 -5.40	-22.60 -23.40	-128.18	240.75 235.88
23/02/2016		23852.3	15472.0	94190.0	1339.3	709.6	491.6	193.0	191.2	-4.05	-23.40	-129.08 -125.85	233.88
23/02/2016		24114.9	15376.5	94027.0	1338.3	708.4	491.4	193.0	191.2	-6.75	-24.10	-123.50	226.50
23/02/2016		23935.2	15488.8	94490.0	1340.0	710.1	491.3	193.0	191.2	-7.60	-27.80	-131.44	216.75
23/02/2016		23935.2	15348.4	94442.0	1338.4	710.3	491.3	193.0	191.2	-5.75	-24.85	-134.89	208.19
23/02/2016		24114.9	15466.4	94337.0	1339.3	708.3	491.2	193.0	191.2	-11.20	-31.50	-138.53	186.31
23/02/2016		23935.2	15455.1	95841.0	1341.1	709.4	491.1	193.0	191.2	-4.55	-22.10	-129.98	228.69
23/02/2016		24025.1	15348.4	97164.0	1340.0	709.3	491.0	193.0	191.2	-11.05	-31.50	-140.10	180.50
23/02/2016	12:48:00	23852.3	15477.6	94360.0	1338.1	709.7	491.1	193.0	191.2	-4.40	-23.55	-127.73	223.75
23/02/2016		23852.3	15455.1	97573.0	1343.0	710.2	490.9	192.5	191.2	-11.30	-34.15	-142.39	177.50
23/02/2016		23935.2	15443.9	94986.0	1338.1	710.2	490.8	193.0	191.2	-6.05	-24.30	-131.74	216.13
23/02/2016		24114.9	15348.4	98393.0	1337.9	708.9	490.7	192.5	191.2	-10.65	-33.10	-145.58	171.88
23/02/2016		23935.2	15455.1	94466.0	1334.4	708.1	490.6	193.0	191.2	-6.40	-25.10	-133.88	199.38
23/02/2016	12:53:00	23935.2	15449.5	98240.0	1336.1	707.0	490.6	193.0	191.2	-12.95	-37.40	-149.14	182.44

	pilata palatika palata Kan Maka Maka masa ka		TOTAL CONTRACTOR OF THE PARTY O		alademika (samanakan)	MATERIAL EXPLORATION AND THE PARTY OF THE PA			market Walter Combined to Andrews Combined to Combined			
February 23/2016	Air Flows			Temperatures					Pressures			
	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test1	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	24384.5	15634.9	98942.0	1351.3	711.7	495.7	196.0	193.4	-3.40	-20.55	-124.73	250.13
Min	23672.5	15325.9	92723.0	1334.4	706.9	490.6	192.5	190.8	-12.95	-37.40	-151.61	171.88
Average	24021.1	15479.0	95125.2	1343.8	709.6	493.5	194.4	192.2	-6.99	-25.98	-134.04	221.96
Variance	27522.0	5576.5	2395808.0	19.3	1.1	3,3	1.4	0.6	6.98	16.75	51.38	474.38

		со	HCI	CO2	H2O	THC	02	Opacity	SO2
.,		PPM	PPM	%	%	PPM	%	%	PPM
\$Date	\$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
23/02/2016	11:53:00		Ana	alyzer P	urge Cl	neck		1.33	
23/02/2016 23/02/2016	11:54:00 11:55:00	46.2	17.35	9.23	40.06		20.01	1.45	589.3
23/02/2016	11:56:00	45.2	18.91	9.23	40.06	18.9 21.1	20.01 19.18	1.38 1.43	587.2
23/02/2016	11:57:00	42.5	20.51	9.14	40.06	18.5	17.76	1.45	577.5
23/02/2016	11:58:00	38.9	21.16	8.95	40.06	20.4	16.74	1.45	563.4
23/02/2016		40.9	21.06	9.08	40.06	20.4	16.56	1.40	572.9
23/02/2016	12:00:00	47.5	22.46	9.20	40.06	23.6	16.05	1.60	582.0
23/02/2016		54.9	23.17	9.22	40.06	20.8	15.49	1.33	587.7
23/02/2016	12:02:00	55.9	23.47	9.20	40.06	22.5	15.21	1.47	585.1
23/02/2016	12:03:00	85.0	25.05	9.32	40.06	32.5	14.82	1.36	591.3
23/02/2016	12:04:00	76.7	24.62	9.37	40.06	33.7	14.45	1.43	598.8
23/02/2016	12:05:00	76.9	25.32	9.28	40.06	29.2	14.22	1.33	585.4
23/02/2016	12:06:00	68.6	24.92	9.07	40.06	29.4	13.77	1.46	577.1
23/02/2016	12:07:00	65.3	25.85	9.16	40.06	31.7	13.72	1.42	585.0
23/02/2016		74.5	26.44	9.20	40.06	29.4	13.60	1.57	587.7
23/02/2016		73.9	26.20	9.20	40.06	29.2	13.48	1.32	583.6
23/02/2016	12:10:00	65.7	27.34	9.20	40.06	28.2	13.38	1.52	586.6
23/02/2016		63.9	26.78	9.23	40.06	27.0	13.31	1.38	589.6
23/02/2016	12:12:00	59.9	26.25	9.20	40.06	26.4	13.23	1.42	585.0
23/02/2016		56.5	25.50	9.05	40.06	26.6	13.05	1.36	573.3
23/02/2016		52.1	24.86	9.02	40.06	25.1	13.04	1.45	574.8
23/02/2016		53.4	26.05	9.11	40.06	25.4	13.11	1.36	579.9
23/02/2016 23/02/2016		50.5 52.8	27.65 26.98	9.19 9.17	40.06 40.06	25.4 27.9	13.15 13.07	1.45 1.30	590.3 589.3
23/02/2016		55.7	26.96	9.19	40.06	28.3	13.06	1.45	589.3
23/02/2016		64.1	28.90	9.31	40.06	26.5	13.05	1.36	596.2
23/02/2016		55.5	28.34	9.28	40.06	23.6	12.95	1.40	596.2
23/02/2016		51.5	27.12	9.13	40.06	24.2	12.80	1.33	582.4
23/02/2016			27.12	8.98	40.06	24.6	12.74	1.36	568.9
23/02/2016		54.5	28.57	9.17	40.06	26.0	12.93	1.42	580.0
23/02/2016	12:24:00	54.8	28.93	9.20	40.06	23.5	12.96	1.42	584.4
23/02/2016	12:25:00	54.1	28.03	9.11	40.06	27.2	12.89	1.31	578.8
23/02/2016	12:26:00	60.3	26.99	9.11	40.06	24.6	12.95	1.48	582.7
23/02/2016	12:27:00	54.8	27.23	9.15	40.06	25.3	12.94	1.33	583.9
23/02/2016		51.2	28.02	9.17	40.06	22.8	12.95	1.33	586.8
23/02/2016			27.71	8.97	40.06	26.7	12.82	1.33	570.6
23/02/2016			28.05	9.07	40.06	23.0	12.99	1.36	579.0
23/02/2016			28.77	9.15	40.06	28.0	13.05	1.50	583.4
23/02/2016			29.35	9.26	40.06	23.1	13.12	1.33	595.5
23/02/2016		51.7	28.23	9.16	40.06	26.0	12.99	1.33	587.5
23/02/2016			27.86	9.20	40.06	23.3	13.01	1.40	592.5
23/02/2016		56.3 47.4	28.67 27.87	9.22 9.14	40.06	24.3 21.5	13.00 12.89	1.36 1.33	593.0 585.2
23/02/2016 23/02/2016			26.98	9.14	40.06 40.06	24.0	12.89	1.33	585.2 575.4
23/02/2016			27.18	9.03	40.06	22.4	12.91	1.40	579.4
23/02/2016			27.70	9.13	40.06	27.4	13.03	1.51	588.2
23/02/2016			28.59	9.16	40.06	22.9	13.03	1.33	590.5
23/02/2016			28.36	9.11	40.06	26.3	12.99	1.37	586.1
23/02/2016			28.37	9.17	40.06	21.9	13.06	1.38	596.8
23/02/2016			28.51	9.19	40.06	25.3	13.01	1.38	594.9
23/02/2016			28.30	9.19	40.06	22.8	13.01	1.36	596.0
23/02/2016	12:45:00	46.3	28.16	8.99	40.06	26.4	12.87	1.42	578.3
23/02/2016	12:46:00	54.7	28.58	9.14	40.06	24.3	13.02	1.37	589.5
23/02/2016	12:47:00	55.8	28.94	9.20	40.06	27.5	13.06	1.42	595.4
23/02/2016	12:48:00	55.6	29.50	9.26	40.06	24.1	13.06	1.30	606.0
23/02/2016			28.06	9.19	40.06	28.0	12.95	1.30	601.2
23/02/2016			29.20	9.30	40.06	23.3	13.02	1.37	611.8
23/02/2016			29.14	9.26	40.06	27.9	12.97	1.36	610.0
23/02/2016			26.96	9.12	40.06	23.3	12.81	1.33	597.2
23/02/2016	12:53:00	50.1	27.86	9.03	40.06	24.0	12.78	1.35	589.8

February 23/2016	Analyzers	***************************************						
	CO	HCI	CO2	H2O	THC	02	Opacity	SO2
Test1	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	85.0	29.50	9.37	40.06	33.7	20.01	1.60	611.8
Min	38.9	17.35	8.95	40.06	18.5	12.74	1.30	563.4
Average	55.6	26.63	9.16	40.06	25.2	13.68	1.39	586.9
Variance	82.7	6.95	0.01	0.00	9.9	2.40	0.00	88.8

	-	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h
\$Date	\$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT
23/02/2016	13:12:00	31.38	5.16	182.22	188.55	3.93	236.03	14.66	21.82
23/02/2016	13:13:00	31.22	4.97	182.27	188.01	4.28	256.65	14.66	22.46
23/02/2016	13:14:00	31.44	5.12	183.69	188.55	4.24	254.55	14.66	21.73
23/02/2016	13:15:00	31.44	5.09	182.32	188.10	4.23	253.65	14.66	22.08
23/02/2016	13:16:00	31.59	5.22	183.45	188.19	4.26	255.45	14.66	21.94
23/02/2016	13:17:00	31.26	5.25	182.70	188.19	4.23	253.80	14.66	21.82
23/02/2016 23/02/2016	13:18:00 13:19:00	31.62 31.08	5.52 5.33	182.36	188.73 188.19	4.27 4.12	256.05 247.43	14.66	21.79
23/02/2016	13:19:00	31.56	5.20	182.13 181.65	188.19	4.12	244.95	14.66 14.66	21.84 22.41
23/02/2016	13:21:00	31.32	5.18	182.45	188.19	4.02	241.43	14.66	22.56
23/02/2016	13:22:00	31.53	5.18	183.03	188.33	4.16	249.53	14.66	22.26
23/02/2016	13:23:00	31.04	4.79	179.38	187.11	4.21	252.83	14.66	22.05
23/02/2016	13:24:00	31.20	4.86	180.99	187.70	4.24	254.10	14.66	22.08
23/02/2016	13:25:00	31.13	5.08	181.80	187.07	4.27	256.20	14.66	22.23
23/02/2016	13:26:00	31.52	5.11	180.71	187.88	3.99	239.40	14.66	22.25
23/02/2016	13:27:00	31.28	4.90	182.88	186.80	3.90	234.15	14.66	22.31
23/02/2016	13:28:00	31.56	5.05	181.61	187.34	4.26	255.83	14.66	21.84
23/02/2016	13:29:00	31.59	5.15	183.26	187.88	4.26	255.38	14.66	22.31
23/02/2016	13:30:00	31.76	5.20	182.36	187.88	4.31	258.83	14.66	21.79
23/02/2016	13:31:00	31.76	5.24	182.75	187.97	4.30	257.78	14.66	21.95
23/02/2016	13:32:00	31.55	5.31	183.07	187.65	3.96	237.38	14.66	22.57
23/02/2016	13:33:00	31.68	5.26	182.75	188.19	4.22	253.28	14.66	22.60
23/02/2016	13:34:00	31.88	5.43	183.45	188.24	4.26	255.53	14.66	22.28
23/02/2016	13:35:00 13:36:00	31.32	5.30 5.40	182.45	188.24	4.25	255.00	14.66	22.54
23/02/2016 23/02/2016	13:37:00	31.65 31.52	5.40	182.27 181.94	188.24 187.70	4.25 4.10	255.00 245.78	14.66 14.66	21.94 22.33
23/02/2016	13:38:00	31.71	5.12	183.45	187.70	4.10	245.63	14.66	21.97
23/02/2016	13:39:00	31.19	5.20	180.09	187.70	3.90	234.23	14.66	21.82
23/02/2016	13:40:00	31.44	5.08	180.75	188.24	3.79	227.18	14.66	22.12
23/02/2016		31.73	5.29	183.88	187.65	4.26	255.53	14.66	21.91
23/02/2016	13:42:00	31.65	4.94	182.51	187.65	4.09	245.63	14.66	21.79
23/02/2016	13:43:00	31.68	4.90	184.31	188.19	4.24	254.25	14.66	22.62
23/02/2016	13:44:00	31.95	5.08	182.13	188.19	4.14	248.40	14.66	21.79
23/02/2016	13:45:00	31.59	4.94	184.31	188.33	4.24	254.18	14.66	22.21
23/02/2016	13:46:00	31.85	4.76	183.03	188.46	4.19	251.48	14.66	21.95
23/02/2016	13:47:00	31.56	4.48	182.64	188.19	4.15	249.08	14.66	22.04
23/02/2016		31.40	4.75	182.79	188.19	4.23	254.03	14.66	21.81
23/02/2016	13:49:00	31.47	4.38	183.41	188.06	4.11	246.75	14.66	22.62
23/02/2016	13:50:00	31.86	4.43	180.84	187.52	4.13	247.50	14.66	21.81
23/02/2016		31.82	4.37	184.59	187.52	4.14	248.48	14.66	22.39
23/02/2016 23/02/2016	13:52:00 13:53:00	31.76 31.88	4.25 4.28	182.84 183.17	187.47 188.10	3.88 4.19	232.80 251.40	14.66 14.66	22.46 22.57
23/02/2016	13:54:00	31.85	8.85	183.41	188.64	4.13	247.65	14.66	22.51
23/02/2016		31.91	8.86	183.84	188.64	3.86	231.60	14.66	22.46
23/02/2016		32.48	8.78	183.12	188.64	4.16	249.38	14.66	22.34
23/02/2016			9.22	143.38	188.64	4.22	253.13	14.66	21.79
23/02/2016		32.54	9.07	157.64	188.10	4.28	256.58	14.66	22.39
23/02/2016	13:59:00	32.37	8.95	154.18	188.01	4.26	255.83	15.75	22.43
23/02/2016	14:00:00	32.31	7.01	160.29	187.97	4.00	239.93	15.75	22.26
23/02/2016	14:01:00	32.07	6.72	177.86	187.97	4.31	258.53	15.34	22.08
23/02/2016	14:02:00	31.85	6.58	175.25	187.83	3.91	234.75	15.34	22.57
23/02/2016			6.74	177.48	187.83	4.28	256.73	15.34	22.44
23/02/2016			6.13	177.11	187.83	3.90	234.00	15.34	21.79
23/02/2016		31.67	6.26	176.54	187.25	4.24	254.48	15.34	22.52
23/02/2016		31.65	6.09	174.07	187.79	3.89	233.48	15.34	21.81
			6.28	172.46	186.66	3.93	235.58	14.33	22.44
23/02/2016		31.82	6.21 5.05	173.17	186.98	3.84	230.18	15.38	22.44
23/02/2016 23/02/2016		31.73 31.43	5.95 6.03	171.90 171.61	186.98 186.44	4.26 4.12	255.68 246.98	15.38 15.38	22.28 22.60
23/02/2016		31.43 31.86	6.16	171.61	186.44	4.12 4.19	246.98 251.33	15.38	22.60
23/02/2016			6.27	174.45	186.62	4.19	251.33	15.38	21.76
20,02,2020		020	- 1 to /	_,	250102	.123		23.30	

February 23/2016	Waste Flow	Waste Flows											
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow					
Test1	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT					
Max	32.54	9.22	184.59	188.73	4.31	258.83	15.75	22.62					
Min	31.04	4.25	143.38	186.44	3.79	227.18	14.33	21.73					
Average	31.66	5.68	179.12	187.86	4.14	248.19	14.82	22.17					
Variance	0.11	1.57	59.88	0.32	0.02	74.13	0.10	0.09					

	ſ	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
\$Date	\$Time	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
23/02/2016		23935.2	15488.8	93799.0	1330.6	710.9	489.5	192.0	191.0	-5.35	-23.45	-126.94	234.44
23/02/2016		24197.9	15573.1	94779.0	1331.4	708.5	489.4	192.0	189.9	-9.20	-29.05	-146.21	221.25
23/02/2016 23/02/2016		23852.3 24114.9	15455.1 15449.5	94588.0 96075.0	1332.0 1330.5	709.9 710.2	489.5 489.2	192.0 192.0	189.9 191.0	-5.25 -9.10	-24.25 -30.30	-132.60 -139.35	222.69 201.31
23/02/2016		23845.3	15449.5	94837.0	1328.6	708.4	489.2	192.0	189.9	-6.65	-24.55	-133.16	207.25
23/02/2016		24204.8	15466.4	94772.0	1329.8	711.6	489.0	192.0	189.9	-7.65	-25.10	-132.56	226.06
23/02/2016		24025.1	15466.4	95368.0	1333.5	708.1	488.6	192.0	189.9	-5.35	-23.55	-126.15	225.81
23/02/2016	13:19:00	24025.1	15398.9	94180.0	1335.4	708.3	488.7	191.5	189.9	-5.55	-26.40	-133.39	224.44
23/02/2016	13:20:00	23852.3	15500.1	93827.0	1334.8	710.3	488.2	191.5	189.9	-4.40	-21.80	-124.50	228.31
23/02/2016		24197.9	15539.4	95706.0	1333.3	707.9	488.3	191.5	189.9	-7.30	-28.45	-140.70	217.31
23/02/2016		23845.3	15421.4	94248.0	1332.4	708.8	488.5	191.5	189.9	-6.30	-24.35	-130.61	222.88
23/02/2016		24197.9 23935.2	15410.2	96107.0	1328.1	710.4	488.3	191.5	189.8	-8.15	-28.75	-138.08	200.81
23/02/2016 23/02/2016		23935.2	15421.4 15432.7	94847.0 93709.0	1327.5 1327.6	709.3 710.9	488.5 488.1	192.0 192.0	189.8 189.8	-6.50 -5.75	-26.05 -24.80	-133.35 -134.21	202.69 222.44
23/02/2016		23942.1	15286.6	95557.0	1331.9	709.9	488.3	191.5	189.8	-5.60	-24.80	-134.21	228.13
23/02/2016		24025.1	15415.8	94721.0	1328.9	708.9	488.3	191.5	189.8	-6.15	-24.90	-132.08	220.31
23/02/2016		23762.4	15415.8	94162.0	1330.6	710.5	488.4	191.5	189.8	-4.50	-23.55	-127.46	228.25
23/02/2016	13:29:00	24114.9	15455.1	95749.0	1328.4	709.4	488.2	191.5	189.8	-8.25	-28.90	-136.76	211.13
23/02/2016	13:30:00	23935.2	15427.0	95277.0	1331.6	708.1	488.2	192.0	189.8	-4.60	-25.40	-130.69	219.19
23/02/2016		24025.1	15427.0	95063.0	1329.6	708.7	488.3	192.0	189.8	-6.20	-25.75	-135.75	199.63
23/02/2016		23852.3	15415.8	95473.0	1331.9	708.4	488.1	192.0	189.8	-5.25	-26.55	-130.28	209.00
23/02/2016		23942.1	15438.3	94066.0	1330.3	707.6	488.3	192.0	189.8	-4.95 3.80	-23.20	-130.46	231.38
23/02/2016 23/02/2016		23679.4 23852.3	15438.3 15438.3	94210.0 94714.0	1334.1 1331.9	708.3 709.5	488.2 488.3	192.0 192.0	189.8 189.8	-3.80 -5.95	-20.55 -23.50	-125.93 -130.39	238.31 233.56
23/02/2016		23852.3	15376.5	92769.0	1331.0	706.2	488.5	192.0	189.8	-4.05	-23.30	-130.39	242.94
23/02/2016		24204.8	15505.7	94438.0	1328.6	708.3	488.5	192.0	189.8	-6.15	-25.95	-135.04	226.75
23/02/2016		24025.1	15292.2	94292.0	1333.8	709.6	488.4	192.0	189.8	-4.55	-24.55	-129.49	232.19
23/02/2016	13:39:00	24197.9	15455.1	95141.0	1331.1	707.5	488.8	192.5	189.8	-7.30	-27.30	-135.53	209.31
23/02/2016	13:40:00	23935.2	15488.8	94612.0	1332.6	709.1	488.5	192.0	189.8	-7.45	-26.65	-131.36	214.19
23/02/2016		23935.2	15331.5	94459.0	1329.0	708.5	488.7	192.0	189.8	-4.50	-24.45	-129.68	232.19
23/02/2016		23672.5	15443.9	94264.0	1331.4	708.8	488.5	192.0	189.8	-4.15	-23.25	-129.68	214.88
23/02/2016		23845.3	15472.0	93885.0	1329.8	710.1	488.5	192.0	189.8	-4.40	-21.70	-128.51	235.81
23/02/2016 23/02/2016		23672.5 23942.1	15455.1 15443.9	96878.0 96195.0	1333.1 1331.4	708.0 709.4	488.3 488.4	191.5 192.0	189.8 189.8	-8.50 -4.95	-31.40 -23.60	-132.94 -135.26	193.19 227.50
23/02/2010		23935.2	15410.2	99184.0	1333.5	707.9	488.4	192.0	189.8	-10.45	-31.85	-137.44	185.00
23/02/2016		24114.9	15477.6	95226.0	1328.8	707.7	488.3	192.0	189.8	-6.30	-26.10	-133.84	208.13
23/02/2016		24287.7	15578.7	99510.0	1330.3	708.5	488.4	192.0	189.8	-12.30	-34.05	-145.05	195.88
23/02/2016	13:49:00	23942.1	15443.9	93857.0	1329.0	707.1	488.4	192.0	189.8	-4.95	-22.95	-129.00	239.75
23/02/2016		23942.1	15443.9	97511.0	1330.4	709.7	488.2	191.5	189.8	-12.75	-35.90	-145.31	196.94
23/02/2016		23845.3	15550.6	93603.0	1328.8	708.2	488.0	191.5	189.8	-4.00	-23.35	-128.14	249.75
23/02/2016		24032.0	15550.6	98818.0	1335.4	708.4	488.1	191.5	189.8	-12.15	-37.60	-146.48	202.44
23/02/2016		24204.8	15449.5	95507.0	1328.1	707.1	488.0	191.5	189.8	-6.55 0.75	-26.60	-134.48	242.25
23/02/2016 23/02/2016		24197.9 23852.3	15354.0 15472.0	98898.0 94473.0	1330.8 1336.5	709.1 709.2	488.1 488.6	191.5 192.5	189.8 189.8	-9.75 -5.00	-32.15 -24.50	-147.38 -134.70	199.69 228.75
23/02/2016		24032.0	15573.1	97788.0	1345.5	710.4	489.2	193.5	189.8	-10.10	-34.10	-151.99	218.13
23/02/2016		24287.7	15466.4	93596.0	1345.0	710.1	490.3	194.5	189.8	-10.00	-26.90	-132.41	259.50
23/02/2016		24460.6	15427.0	98344.0	1344.5	710.0	490.2	193.5	190.9	-16.65	-39.25	-154.43	219.81
23/02/2016	13:59:00	23935.2	15539.4	95737.0	1348.0	709.3	489.2	192.0	190.9	-8.10	-24.05	-129.38	268.25
23/02/2016		24377.6	15533.8	97674.0	1348.6	707.6	488.3	190.5	189.6	-17.40	-38.95	-155.51	229.81
23/02/2016		24025.1	15337.1	95172.0	1344.9	710.0	487.0	190.0	189.6	-6.45	-26.15	-132.15	252.50
23/02/2016		24377.6	15578.7	95439.0	1344.4	710.6	486.8	190.5	189.6	-9.50	-29.50	-147.04	225.00
23/02/2016		24032.0	15460.7	95023.0	1344.6	709.7	487.3	191.0	189.6	-6.85	-26.25	-132.64	225.13
23/02/2016		24294.7	15612.4	94932.0	1344.5	711.4	487.4	191.0	189.6	-8.45 2.05	-25.80	-138.68	245.81
23/02/2016 23/02/2016		23942.1 24287.7	15494.4 15505.7	92770.0 94864.0	1342.9 1340.8	707.9 709.2	487.4 487.8	191.0 191.0	189.6 189.6	-3.85 -9.00	-23.50 -28.60	-127.69 -142.16	253.56 258.38
23/02/2016		24287.7	15466.4	94199.0	1340.8	710.6	486.9	191.0	189.6	-6.20	-24.25	-142.16 -127.31	258.38 277.13
23/02/2016		24287.7	15466.4	95353.0	1340.6	709.8	487.1	190.5	189.6	-13.70	-33.85	-148.01	277.13
23/02/2016		23935.2	15477.6	95125.0	1340.1	709.6	486.9	190.5	189.6	-7.85	-27.40	-133.91	276.44
23/02/2016		24032.0	15601.2	95061.0	1338.9	708.1	486.4	190.0	189.6	-10.45	-30.15	-143.44	250.63
23/02/2016	14:11:00	23942.1	15606.8	95244.0	1337.0	709.3	486.1	190.0	189.7	-8.25	-26.85	-133.91	251.56
23/02/2016	14:12:00	24204.8	15477.6	95687.0	1335.5	709.9	485.8	190.0	188.5	-8.15	-26.50	-133.69	267.63

February 23/2016	Air Flows			Temperatures					Pressures		TO THE PERSON NAMED IN THE	CANDONINA OF FRANCE
	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test1	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	24460.6	15612.4	99510.0	1348.6	711.6	490.3	194.5	191.0	-3.80	-20.55	-124.50	277.13
Min	23672.5	15286.6	92769.0	1327.5	706.2	485.8	190.0	188.5	-17.40	-39.25	-155.51	185.00
Average	24021.7	15463.1	95268.2	1334.3	709.1	488.3	191.7	189.8	-7.36	-26.96	-135.05	227.93
Variance	33719.9	4914.6	2235390.3	34.4	1.3	0.7	0.6	0.1	8.86	18.10	54.96	463.35

		со	HCI	CO2	H2O	THC	02	Opacity	SO2
		PPM	PPM	%	% %	PPM	%	%	PPM
\$Date	\$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
23/02/2016	13:12:00	69.0	28.42	9.16	40.06	28.4	13.05	1.31	611.9
23/02/2016	13:13:00	70.0	28.21	9.10	40.06	29.0	13.00	1.50	608.9
23/02/2016	13:14:00	70.3	28.15	9.21	40.06	25.5	13.04	1.32	615.8
23/02/2016	13:15:00	62.1	28.48	9.18	40.06	25.8	13.02	1.40	614.4
23/02/2016	13:16:00	56.4	28.54	9.03	40.06	25.3	12.88	1.33	601.9
23/02/2016	13:17:00	53.0	28.15	8.97	40.06	26.0	12.91	1.41	599.0
23/02/2016	13:18:00	55.5	28.76	9.14	40.06	27.6	13.05	1.38	612.6
23/02/2016	13:19:00	57.2	28.63	9.20	40.06	27.6	13.07	1.36	615.9
23/02/2016	13:20:00	63.5	28.95	9.18	40.06	28.4	13.02	1.31	612.0
23/02/2016	13:21:00	65.7	28.48	9.24	40.06	28.3	13.06	1.40	617.8
23/02/2016	13:22:00	69.9	28.33	9.25	40.06	28.9	13.04	1.33	617.8
23/02/2016	13:23:00	71.1	28.86	9.23	40.06	25.0	12.97	1.36	617.8
23/02/2016	13:24:00	62.6	28.48	8.97	40.06	24.5	12.78	1.33	596.1
23/02/2016	13:25:00	56.5	27.66	8.92	40.06	22.4	12.79	1.36	593.1
23/02/2016		51.6	27.85	9.05	40.06	26.5	12.98	1.42	604.8
23/02/2016	13:27:00	55.1	28.75	9.15	40.06	24.1	13.07	1.36	618.0
23/02/2016	13:28:00	57.2	28.87	9.10	40.06	28.1	13.02	1.30	615.5
23/02/2016		58.7	29.25	9.13	40.06	24.3	13.02	1.40	621.3
23/02/2016	13:30:00	53.7	29.05	9.19	40.06 40.06	26.9	13.04	1.33	623.4
23/02/2016 23/02/2016		49.8 47.5	29.06 28.75	9.22 9.06	40.06 40.06	23.4 25.9	13.05 12.90	1.36 1.36	626.9 609.4
23/02/2016		47.3 52.2	28.73	9.06	40.06	23.9	12.96	1.35	615.6
23/02/2016		52.2	28.66	9.12	40.06	28.5	12.98	1.46	619.6
23/02/2016		57.2	29.61	9.22	40.06	23.8	13.04	1.31	632.5
23/02/2016		56.4	28.66	9.21	40.06	27.1	12.98	1.35	628.9
23/02/2016		54.6	29.37	9.22	40.06	23.1	12.98	1.35	634.3
23/02/2016		52.8	29.71	9.23	40.06	27.0	12.94	1.36	634.3
23/02/2016		52.4	29.95	9.19	40.06	22.1	12.86	1.31	628.8
23/02/2016	13:40:00	47.4	28.64	8.91	40.06	27.3	12.76	1.36	607.0
23/02/2016	13:41:00	49.5	28.77	8.97	40.06	23.6	12.87	1.37	610.9
23/02/2016	13:42:00	53.3	29.67	9.10	40.06	26.6	12.98	1.42	620.1
23/02/2016	13:43:00	56.5	29.89	9.15	40.06	24.2	13.02	1.28	630.2
23/02/2016	13:44:00	53.9	29.56	9.13	40.06	29.9	12.98	1.30	626.5
23/02/2016		64.2	30.35	9.22	40.06	24.6	13.05	1.33	636.9
23/02/2016		57.0	30.89	9.20	40.06	28.5	12.97	1.37	635.0
23/02/2016		56.3	30.84	9.21	40.06	23.8	12.96	1.31	637.2
23/02/2016		53.1	29.40	9.01	40.06	24.8	12.78	1.40	617.3
23/02/2016		45.6	28.29	9.07	40.06	24.3	12.91	1.33	623.4
23/02/2016		43.8	29.92	9.10	40.06	25.4	12.97	1.38	629.3
23/02/2016		46.4	30.22	9.17	40.06	25.3	13.02	1.27	636.6
23/02/2016 23/02/2016		48.5 52.3	29.09 29.66	9.11 9.20	40.06 40.06	27.1 23.9	12.96 13.00	1.40 1.33	632.2 639.4
23/02/2016		49.5	29.70	9.18	40.06	27.0	12.98	1.36	636.4
23/02/2016			29.99	9.12	40.06	35.7	12.92	1.31	629.8
23/02/2016			29.87	9.14	40.06	52.9	12.83	1.40	632.2
23/02/2016			31.10	9.53	40.06	46.8	12.98	1.42	669.9
23/02/2016			31.28	9.45	40.06	23.3	12.85	1.52	649.8
23/02/2016		69.4	30.31	8.91	40.06	18.8	12.54	1.25	556.0
23/02/2016			30.15	8.42	40.06	20.4	12.68	1.42	530.5
23/02/2016		29.3	29.51	8.06	40.06	23.8	12.81	1.33	522.4
23/02/2016	14:02:00		29.04	8.57	40.06	25.8	13.12	1.40	561.0
23/02/2016	14:03:00	46.3	30.09	9.03	40.06	25.4	13.17	1.36	601.8
23/02/2016	14:04:00	46.8	30.15	8.96	40.06	25.4	13.12	1.46	601.8
23/02/2016			31.01	9.11	40.06	25.6	13.26	1.40	614.5
23/02/2016			31.26	9.17	40.06	25.1	13.26	1.55	618.0
23/02/2016			30.42	9.14	40.06	24.4	13.24	1.27	618.0
23/02/2016			30.01	8.97	40.06	24.8	13.11	1.56	602.5
23/02/2016			30.35	9.04	40.06	23.5	13.19	1.32	604.0
23/02/2016			31.20	9.02	40.06	22.5	13.20	1.36	601.7
23/02/2016			31.15	8.54	40.06	22.5	13.10	1.35	586.2
23/02/2016	14:12:00	31.9	30.40	8.05	40.06	23.4	13.06	1.42	570.3

February 23/2016	Analyzers			***************************************	annava monocunyá ytodayánan anná érony		XXXIII XXXII	nama) sua consensa y submense y consuma
	СО	HCI	CO2	H2O	THC	O2	Opacity	SO2
Test1	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	201.9	31.28	9.53	40.06	52.9	13.26	1.56	669.9
Min	29.3	27.66	8.05	40.06	18.8	12.54	1.25	522.4
Average	58.0	29.44	9.06	40.06	26.3	12.99	1.37	613.7
Variance	786.6	0.92	0.07	0.00	25.9	0.02	0.00	625.7

	I	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h
\$Date	\$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT
23/02/2016	14:28:00	31.56	6.91	181.23	185.94	4.03	241.80	15.34	22.59
23/02/2016	14:29:00	31.50	6.69	179.62	186.48	3.99	239.55	15.34	22.46
23/02/2016	14:30:00	31.50	6.45	180.18	185.94	4.11	246.83	15.34	21.86
23/02/2016	14:31:00	31.80	6.49	180.56	185.36	4.13	247.88	15.34	21.82
23/02/2016	14:32:00	31.56	6.44	179.19	184.82	4.20	252.23	15.34	22.39
23/02/2016	14:33:00	31.71	6.39	180.24	185.36	4.16	249.75	15.34	22.07
23/02/2016	14:34:00	31.46	6.34	182.17	184.68	4.22	253.28	15.34	21.91
23/02/2016	14:35:00	31.68	6.54	181.27	185.94	4.07	243.90	15.34	22.39
23/02/2016	14:36:00	31.65	6.67	179.62	185.90	4.27	256.35	15.34	22.08
23/02/2016	14:37:00	31.86	6.91	179.52	185.99	4.33	259.65	15.34	21.91
23/02/2016	14:38:00	31.62	6.90	182.04	185.45	4.20	252.00	15.34	22.54
23/02/2016	14:39:00	31.77	6.74	178.85	186.89	4.27	255.98	15.34	21.81
23/02/2016	14:40:00	31.77	6.90	181.32	186.35	4.26	255.68	15.34	21.82
23/02/2016	14:41:00	31.85	6.83	178.72	186.62	4.13	247.73	15.34	22.59
23/02/2016	14:42:00	31.91	6.84	180.33	186.62	3.99	239.33	15.34	22.62
23/02/2016	14:43:00	31.82	6.69	179.04	186.62	4.09	245.25	15.34	22.62
23/02/2016	14:44:00	31.97	6.52	179.19	186.62	4.26	255.53	15.34	21.87
23/02/2016	14:45:00	31.77	6.59	181.14	186.62	4.22	253.28	15.34	21.82
23/02/2016	14:46:00	31.79	6.85	182.51	186.62	3.98	239.03	15.34	21.79
23/02/2016	14:47:00	31.55	6.25	178.53	186.80	4.25	254.85	15.34	22.44
23/02/2016	14:48:00	31.23	6.25	180.84	186.30	4.16	249.60	15.34	21.81
23/02/2016	14:49:00	31.29	6.09	178.72	186.30	4.00	240.08	15.34	22.52
23/02/2016	14:50:00	31.55	6.22	179.38	185.72	4.08	244.73	15.34	22.54 21.89
23/02/2016	14:51:00	31.32	5.96	179.47	185.72	4.27 4.07	255.98 244.13	15.34 15.34	
23/02/2016 23/02/2016	14:52:00 14:53:00	31.82 31.53	6.08	180.14	185.18	4.14	244.13	15.34	22.12 21.95
23/02/2016	14:54:00	31.79	6.24 6.23	180.05 179.90	185.85 186.39	4.14	246.25	15.34	21.81
23/02/2016	14:55:00	31.82	6.45	179.10	186.39	4.28	256.80	15.34	21.82
23/02/2016	14:56:00	32.16	6.22	181.61	186.44	4.27	255.90	15.34	22.54
23/02/2016	14:57:00	31.70	6.34	181.18	186.84	4.11	246.83	15.34	21.79
23/02/2016	14:58:00	31.88	6.36	181.23	186.84	4.02	240.98	15.34	22.62
23/02/2016	14:59:00	31.91	6.36	178.95	186.21	4.10	246.00	15.34	21.97
23/02/2016	15:00:00	32.06	6.37	180.09	186.21	4.11	246.83	15.34	22.43
23/02/2016	15:01:00	31.91	6.31	181.32	186.80	4.15	248.70	15.34	22.60
23/02/2016	15:02:00	31.65	6.30	180.56	185.67	4.22	253.13	15.34	22.56
23/02/2016	15:03:00	31.37	6.05	179.62	186.30	3.79	227.10	15.34	22.41
23/02/2016	15:04:00	31.74	6.15	180.90	186.30	3.86	231.45	15.34	21.92
23/02/2016	15:05:00	31.20	6.00	179.47	185.81	4.16	249.45	15.34	21.81
23/02/2016	15:06:00	31.80	5.90	179.34	186.08	4.25	255.08	15.34	22.23
23/02/2016	15:07:00	31.52	6.00	179.81	186.08	4.21	252.38	15.34	21.87
23/02/2016	15:08:00	31.85	6.25	181.08	186.08	4.11	246.30	15.34	22.10
23/02/2016	15:09:00	31.79	5.85	179.90	185.72	3.73	223.73	15.34	22.08
23/02/2016	15:10:00	31.74	5.21	180.90	186.26	3.97	238.35	15.34	22.26
23/02/2016			5.09	179.15	185.81	4.01	240.30	15.34	21.95
23/02/2016		32.19	5.39	179.38	186.62	3.73	223.80	15.34	21.78
23/02/2016			5.44	180.80	186.08	4.15	248.93	15.34	22.25
23/02/2016	15:14:00	32.34	5.35	181.32	186.03	4.18	250.95	15.34	22.05
23/02/2016	15:15:00	32.31	5.26	180.33	186.03	4.14	248.40	15.34	22.47
23/02/2016		32.49	5.50	141.39	186.62	3.88	232.80	16.58	22.57
23/02/2016	15:17:00	32.37	5.18	140.21	186.03	3.85	231.15	15.41	22.49
23/02/2016		32.24	5.22	160.57	186.03	4.15	248.78	15.41	22.60
23/02/2016 23/02/2016	15:19:00	32.24	5.05	165.88	186.08	4.03	241.88	15.41	21.87
23/02/2016	15:20:00 15:21:00	31.91 32.07	5.04 40.00	166.87	185.49 185.45	4.22 4.22	253.35 253.43	15.41 15.41	21.84 22.60
23/02/2016	15:21:00	32.07 31.88	40.00 5.75	143.10 169.57	185.45 185.45	4.22 4.12	253.43 247.05	15.41 15.49	22.60
23/02/2016			5.75 5.36	170.24	185.45	3.63	247.03	15.49	21.79
23/02/2016	15:24:00	31.82	5.91	170.24	186.17	3.63	217.50	15.49	22.21
23/02/2016			6.33	170.81	186.17	3.92	235.20	15.49	21.82
23/02/2016	15:26:00	32.34	6.14	170.43	186.21	3.51	210.68	15.49	22.21
23/02/2016	15:27:00		6.16	171.37	186.21	4.14	248.48	15.49	22.46
23/02/2016	15:28:00		5.91	172.61	186.21	4.10	245.93	15.49	22.26
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February 23/2016	Waste Flow	Waste Flows											
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow					
Test1	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT					
Max	32.49	40.00	182.51	186.89	4.33	259.65	16.58	22.62					
Min	31.20	5.04	140.21	184.68	3.51	210.68	15.34	21.78					
Average	31.83	6.62	176.21	186.06	4.07	244.47	15.39	22.15					
Variance	0.08	17.67	79.05	0.23	0.03	116.37	0.03	0.10					

	[	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Iniet	BH Inlet	BH dP
PH-101-104-104-104-104-104-104-104-104-104		m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
\$Date	\$Time	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
23/02/2016		23935.2	15404.6	94759.0	1341.4	709.5	487.4	194.0	189.7	-6.50	-23.40	-133.01	236.75
23/02/2016 23/02/2016		23852.3 23935.2	15427.0 15533.8	93558.0 95012.0	1345.9 1342.6	710.1 709.7	487.9 488.2	194.0 194.5	190.7 190.7	-4.00 -4.25	-22.35 -25.00	-124.91 -127.95	243.13 246.00
23/02/2016		23672.5	15297.8	93313.0	1345.5	709.7	488.4	194.5	190.7	-3.45	-23.00	-124.88	246.00
23/02/2016		24025.1	15303.4	95411.0	1342.9	709.6	488.6	194.5	190.7	-6.40	-26.25	-134.96	224.31
23/02/2016		23762.4	15365.2	93763.0	1342.9	708.4	488.8	194.5	191.7	-5.30	-24.45	-130.39	223.69
23/02/2016		23762.4	15320.3	93331.0	1340.9	709.0	489.3	195.0	191.7	-5.50	-25.75	-133.84	197.13
23/02/2016	14:35:00	23935.2	15511.3	94544.0	1342.3	708.9	489.3	195.0	191.7	-4.50	-23.35	-129.75	208.69
23/02/2016	14:36:00	23852.3	15528.2	93845.0	1343.8	711.7	489.5	195.5	191.7	-3.65	-22.90	-126.30	240.56
23/02/2016		23852.3	15410.2	94429.0	1347.0	709.9	489.6	195.0	191.7	-3.80	-21.65	-124.20	242.25
23/02/2016		23762.4	15511.3	93736.0	1345.6	709.7	489.9	195.5	191.7	-3.90	-23.75	-124.95	234.56
23/02/2016		23672.5	15281.0	92687.0	1346.6	710.3	489.8	195.5	191.7	-4.15	-20.70	-122.85	237.25
23/02/2016		23762.4	15286.6	95021.0	1344.6	711.5	490.1	195.5	191.7	-5.00	-23.70	-132.83	220.06
23/02/2016		23582.7	15258.5	93916.0	1347.5	711.1	490.5	195.5	192.7	-5.00	-23.65 -24.25	-127.01 -130.69	212.94 195.38
23/02/2016 23/02/2016		23762.4 23942.1	15393.3 15477.6	94548.0 97981.0	1345.9 1346.3	711.2 710.9	490.7 491.1	196.0 196.0	192.7 192.7	-4.55 -8.50	-24.25	-135.38	179.88
23/02/2016		23942.1	15370.9	93363.0	1345.6	710.3	491.3	196.0	192.7	-5.10	-25.35	-126.75	221.75
23/02/2016		23935.2	15472.0	97659.0	1346.0	714.1	491.4	196.0	192.7	-8.80	-31.75	-138.08	175.19
23/02/2016		23935.2	15466.4	93457.0	1348.6	711.6	491.4	196.0	192.7	-3.50	-22.30	-128.21	227.50
23/02/2016		24032.0	15449.5	99028.0	1350.3	711.3	491.5	195.5	192.7	-10.55	-31.80	-138.30	177.06
23/02/2016		23852.3	15393.3	94571.0	1349.1	710.5	491.5	196.0	192.7	-5.55	-24.45	-129.30	227.50
23/02/2016		24204.8	15393.3	97466.0	1347.6	710.2	492.0	196.0	193.7	-9.00	-34.90	-142.88	195.13
23/02/2016	14:50:00	24032.0	15511.3	94757.0	1347.1	711.8	491.7	196.0	192.4	-4.40	-24.40	-131.03	222.81
23/02/2016	14:51:00	24114.9	15511.3	97426.0	1346.5	710.3	491.7	196.0	192.4	-11.70	-34.70	-146.40	208.88
23/02/2016	14:52:00	23679.4	15286.6	93223.0	1345.8	709.5	492.0	196.5	193.5	-4.15	-22.50	-128.59	244.63
23/02/2016		24025.1	15393.3	98729.0	1347.8	711.6	492.0	196.0	193.5	-12.30	-34.35	-148.95	197.81
23/02/2016		23762.4	15477.6	94375.0	1349.3	711.8	492.2	196.0	193.4	-3.70	-21.75	-126.23	249.56
23/02/2016		23935.2	15438.3	97608.0	1351.5	709.7	491.8	196.0	193.4	-11.85	-34.70	-152.33	202.56
23/02/2016		23762.4	15472.0	94450.0	1348.0	710.7	492.1	196.0	193.6	-5.55	-25.65	-131.74	240.94
23/02/2016		24114.9	15337.1	98299.0	1351.4	710.5	492.2	196.5	193.6	-12.05	-34.30	-148.69	198.13
23/02/2016		23845.3 24114.9	15460.7 15472.0	94680.0 97186.0	1353.4 1351.1	710.9 710.8	492.1 492.1	196.5 196.5	193.6 193.6	-3.95 -5.55	-24.05 -25.25	-130.95 -142.58	222.81 249.44
23/02/2016 23/02/2016		23762.4	15472.6	93157.0	1352.8	710.8	492.1	196.5	193.6	-3.40	-21.60	-125.33	260.00
23/02/2016		24025.1	15522.5	97466.0	1352.1	710.5	492.2	196.5	193.6	-11.45	-31,20	-143.66	252.13
23/02/2016		23672.5	15404.6	94056.0	1352.8	711.1	492.1	196.5	193.6	-4.05	-22.05	-124.80	262.81
23/02/2016		24204.8	15241.6	96652.0	1355.0	712.0	492.1	196.0	193.6	-10.95	-31.95	-145.65	235.31
23/02/2016		23942.1	15545.0	93494.0	1353.9	710.5	492.5	196.5	193.6	-3.00	-21.75	-127.50	247.13
23/02/2016		24025.1	15539.4	95455.0	1353.0	710.0	492.1	196.5	193.6	-8.40	-28.20	-138.45	227.94
23/02/2016	15:06:00	23935.2	15494.4	93862.0	1351.8	710.0	492.6	196.5	193.6	-4.80	-24.45	-130.35	235.94
23/02/2016	15:07:00	23845.3	15505.7	94649.0	1348.8	708.9	492.3	196.5	193.6	-5.55	-23.75	-132.90	264.75
23/02/2016	15:08:00	23679.4	15382.1	94690.0	1350.8	713.3	492.4	196.5	193.6	-2.75	-20.30	-123.71	265.69
23/02/2016		24204.8	15606.8	95436.0	1351.3	712.0	492.2	196.0	193.6	-5.05	-25.40	-133.09	269.75
23/02/2016		23582.7	15477.6	93964.0	1350.4	710.4	492.6	196.0	193.6	-3.35	-21.90	-124.99	274.25
23/02/2016		24108.0	15584.3	95144.0	1350.9	710.5	492.3	196.0	192.6	-8.25	-29.50	-141.45	263.06
23/02/2016		24114.9	15281.0	93121.0	1351.3	711.8	492.4	196.0	193.8	-4.45 6.20	-23.10	-126.86	255.38
23/02/2016		23935.2	15432.7	96198.0	1350.5	711.2	492.4	196.0	193.8	-6.20 -5.35	-25.25 -24.45	-133.99 -128.59	223.00
23/02/2016 23/02/2016		23845.3 24114.9	15443.9 15550.6	93631.0 93747.0	1352.9 1350.3	712.1 710.5	492.1 492.1	196.0 196.0	193.8 192.8	-5.35 -4.45	-24.45 -23.15	-128.59 -128.66	222.81 244.25
23/02/2016		24204.8	15325.9	94538.0	1351.3	710.3	492.1	195.5	192.8	-9.20	-25.15	-131.63	245.50
23/02/2016		24557.3	15325.5	95411.0	1344.8	711.5	490.0	193.0	192.8	-12.45	-30.55	-136.73	233.69
23/02/2016		24730.1	15663.0	94612.0	1337.9	711.4	487.5	189.5	191.8	-7.40	-19.45	-134.70	230.50
23/02/2016		24204.8	15528.2	95245.0	1338.6	711.8	484.8	187.0	190.8	-10.30	-31.70	-143.93	219.81
23/02/2016		24204.8	15410.2	95741.0	1340.5	711.8	483.5	186.5	190.8	-9.40	-28.15	-134.55	222.81
23/02/2016		25082.7	15460.7	96330.0	1334.0	710.7	482.3	186.0	189.8	-15.70	-32.75	-146.06	201.25
23/02/2016		24114.9	15359.6	95776.0	1341.0	712.1	480.4	184.0	188.7	-9.00	-28.75	-135.90	203.56
23/02/2016		24287.7	15370.9	95209.0	1340.4	712.1	479.3	184.0	187.3	-9.00	-27.75	-135.04	222.31
23/02/2016	15:24:00	23762.4	15449.5	94300.0	1346.9	713.7	478.9	184.5	187.3	-6.85	-25.50	-130.28	226.31
23/02/2016	15:25:00	24114.9	15472.0	95614.0	1345.8	711.1	479.2	185.0	187.3	-8.95	-28.80	-135.15	221.56
23/02/2016		23935.2	15460.7	94039.0	1352.0	714.4	479.3	185.5	187.3	-4.55	-24.50	-130.54	222.63
23/02/2016			15438.3	96527.0	1350.4	712.3	479.4	186.0	186.3	-9.40	-29.40	-139.61	213.44
23/02/2016	15:28:00	23845.3	15393.3	94920.0	1354.1	712.6	479.7	187.0	187.5	-6.90	-25.15	-131.44	221.44

February 23/2016	Air Flows			Temperatures	The state of the s	***************************************		CHARLES AND	Pressures	NACONIC DE LA CONTRACTION DEL CONTRACTION DE LA		kihini hinin ilikinya kuomini dana ilinin kalanana
	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test1	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	25082.7	15663.0	99028.0	1355.8	714.4	492.6	196.5	193.8	-2.75	-19.45	-122.85	274.25
Min	23582.7	15241.6	92687.0	1334.0	708.4	478.9	184.0	186.3	-15.70	-34.90	-152.33	175.19
Average	23983.5	15427.8	95062.2	1347.7	711.1	488.7	193.5	191.6	-6.67	-26.13	-133.26	227.31
Variance	64467.4	8224.4	2285417.8	20.5	1.5	22.3	16.6	5.1	8.62	16.12	48.62	509.66

		со	HCI	CO2	H2O	THC	02	Opacity	SO2
		PPM	PPM	%	%	PPM	%	%	PPM
\$Date	\$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
23/02/2016	14:28:00	77.9	32.84	9.16	40.06	27.6	13.07	1.40	634.1
23/02/2016	14:29:00	85.5	34.51	9.32	40.06	37.2	13.16	1.46	647.0
23/02/2016		94.2	34.58	9.34	40.06	26.5	13.06	1.36	649.6
23/02/2016	14:31:00	86.8	34.52	9.26	40.06	30.8	12.96	1.36	643.8
23/02/2016	14:32:00	70.0	35.16	9.27	40.06	25.4	12.93	1.42	646.0
23/02/2016	14:33:00	72.2	34.51	9.28	40.06	29.5	12.91	1.36	645.8
23/02/2016	14:34:00	67.4	34.24	9.28	40.06	24.8	12.88	1.40	645.8
23/02/2016	14:35:00	65.2	33.72	9.06	40.06	29.8	12.68	1.40	622.6
23/02/2016	14:36:00	71.2	33.24	9.19	40.06	27.2	12.84	1.36	635.0
23/02/2016	14:37:00	76.7	33.27	9.26	40.06	33.9	12.91	1.50	642.4
23/02/2016	14:38:00	91.5	36.04	9.39	40.06	27.8	12.96	1.33	656.4
23/02/2016	14:39:00	81.0	34.50	9.35	40.06	35.6	12.84	1.36	655.8
23/02/2016	14:40:00	79.8	34.77	9.42	40.06	27.6	12.80	1.40	664.2
23/02/2016	14:41:00	82.8	34.89	9.43	40.06	30.3	12.74	1.40	662.4
23/02/2016	14:42:00	79.3	34.70	9.38	40.06	25.8	12.62	1.36	656.0
23/02/2016	14:43:00	70.8	33.90	9.17	40.06	28.5	12.42	1.42	632.5
23/02/2016	14:44:00	68.0	34.67	9.26	40.06	25.2	12.53	1.42	642.4
23/02/2016		57.9	34.30	9.37	40.06	29.3	12.61	1.52	652.2
23/02/2016		57.6	34.99	9.38	40.06	25.4	12.57	1.33	659.1
23/02/2016		55.3	34.31	9.33	40.06	31.9	12.52	1.40	653.9
23/02/2016		62.4	34.56	9.40	40.06	23.8	12.56	1.36	656.9
23/02/2016		52.6	34.27	9.37	40.06	25.4	12.51	1.40	654.4
23/02/2016		39.8	33.66	9.15	40.06	22.7	12.39	1.35	638.5
23/02/2016		37.2	33.22	9.04	40.06	24.3	12.35	1.42	628.0
23/02/2016		39.0	34.24	9.18	40.06	25.0	12.51	1.40	635.3
23/02/2016		47.4	35.26	9.24	40.06	28.1	12.65	1.48	644.8
23/02/2016		53.1 51.0	35.54	9.28	40.06	24.7	12.67	1.31	650.6
23/02/2016 23/02/2016	14:55:00	51.0 55.4	35.68 35.28	9.23	40.06	29.1	12.60	1.40	644.3
23/02/2016		53.5	35.28 35.36	9.35 9.38	40.06 40.06	25.3	12.67	1.33	653.2
23/02/2016		48.6	36.06	9.31	40.06	27.6 26.1	12.65 12.57	1.37	651.7 647.6
23/02/2016		52.0	34.73	9.18	40.06	27.9	12.50	1.31 1.38	631.8
23/02/2016		55.2	35.96	9.34	40.06	27.6	12.67	1.46	645.7
23/02/2016		54.0	36.24	9.36	40.06	29.8	12.69	1.56	649.9
23/02/2016		58.5	35.48	9.35	40.06	27.0	12.63	1.31	654.7
23/02/2016		59.9	34.67	9.33	40.06	31.3	12.57	1.46	653.0
23/02/2016		65.6	34.76	9.40	40.06	26.7	12.59	1.33	657.4
23/02/2016		61.2	34.41	9.40	40.06	27.5	12.54	1.40	654.8
23/02/2016		56.0	35.07	9.25	40.06	25.4	12.44	1.33	636.5
23/02/2016		46.7	34.04	9.14	40.06	25.5	12.41	1.46	625.8
23/02/2016		47.6	34.64	9.23	40.06	28.1	12.52	1.46	632.8
23/02/2016		58.3	35.09	9.35	40.06	27.5	12.61	1.56	643.3
23/02/2016	15:10:00	55.6	33.41	9.29	40.06	26.4	12.55	1.27	640.8
23/02/2016	15:11:00	51.5	33.20	9.25	40.06	27.9	12.54	1.52	637.8
23/02/2016		49.9	34.48	9.32	40.06	26.1	12.58	1.33	644.0
23/02/2016	15:13:00	45.0	33.93	9.28	40.06	25.7	12.54	1.36	638.0
23/02/2016	15:14:00	43.6	33.48	9.20	40.06	26.2	12.47	1.32	627.6
23/02/2016		44.9	33.17	9.15	40.06	25.8	12.45	1.38	618.7
23/02/2016		44.4	34.11	9.24	40.06	21.7	12.58	1.37	625.7
23/02/2016		38.2	32.95	8.66	40.06	17.9	12.48	1.37	583.5
23/02/2016		26.5	28.28	7.17	40.06	17.0	12.26	1.20	453.2
23/02/2016		24.8	26.42	6.85	40.06	21.4	12.66	1.46	403.7
23/02/2016		27.6	26.72	7.09	40.06	21.7	13.06	1.31	427.0
23/02/2016		31.4	28.26	8.33	40.06	21.3	13.72	1.27	514.8
23/02/2016		27.8	27.25	7.32	40.06	21.6	13.45	1.31	458.9
23/02/2016		29.8	25.31	6.96	40.06	23.4	13.76	1.33	445.4
23/02/2016		33.4	26.65	7.47	40.06	28.2	14.18	1.33	505.1
23/02/2016		39.1	28.45	8.57	40.06	27.0	14.44	1.27	562.2
23/02/2016			28.50	8.54	40.06	29.7	14.27	1.25	569.6
23/02/2016		39.7	28.86	8.60	40.06	27.7	14.25	1.30	575.7
23/02/2016	15:28:00	41.4	30.54	9.08	40.06	29.2	14.17	1.31	582.5

February 23/2016	Analyzers		Production and the Control of the Co					
	CO	HCI	CO2	H2O	THC	02	Opacity	SO2
Test1	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	94.2	36.24	9.43	40.06	37.2	14.44	1.56	664.2
Min	24.8	25.31	6.85	40.06	17.0	12.26	1.20	403.7
Average	54.0	33.09	8.99	40.06	26.7	12.91	1.37	614.1
Variance	300.1	7.64	0.41	0.00	12.0	0.32	0.01	3777.9

		Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h
\$Date	\$Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT
23/02/2016	A	32.30	5.94	175.64	186.08	3.96	237.38	15.79	22.47
23/02/2016		32.67	5.46	176.82	185.36	4.02	241.28	15.68	22.08
23/02/2016		32.70	5.58	176.15	185.99	3.90	233.93	15.68	22.51
23/02/2016		32.57	5.88	175.83	187.25	4.02	240.90	15.68	21.94
23/02/2016	15:50:00	32.39	5.89	175.21	187.52	4.09	245.10	15.68	22.21
23/02/2016	15:51:00	32.45	6.20	176.34	187.34	3.76	225.53	15.68	22.18
23/02/2016	15:52:00	32.34	5.49	175.44	187.88	3.52	211.20	15.68	22.26
23/02/2016	15:53:00	32.16	5.63	175.21	186.62	4.02	240.90	15.68	21.87
23/02/2016	15:54:00	31.97	5.61	179.00	187.25	3.82	229.43	14.59	22.30
23/02/2016	15:55:00	31.83	5.46	180.61	186.57	3.80	228.00	15.64	22.25
23/02/2016		31.76	5.85	178.29	186.66	3.43	205.58	15.64	22.25
23/02/2016		31.80	5.82	179.90	186.21	4.13	247.58	15.56	22.60
23/02/2016		31.88	5.66	179.62	186.48	4.18	250.65	15.56	21.87
23/02/2016		32.06	5.69	180.99	187.20	4.26	255.45	15.56	22.41
23/02/2016		32.28	5.63	178.85	187.11	3.87	232.35	15.56	21.92
23/02/2016		32.37	6.12	180.28	187.56	4.05	243.08	15.56	22.57
23/02/2016		32.46	5.64	178.05	186.93	3.63	217.88	15.56	22.44
23/02/2016		32.48	6.30	180.00	187.29	3.97	238.43	15.56	22.08
23/02/2016		32.31	5.58	179.04	186.84	4.18	250.88	15.56	22.05
23/02/2016		32.39	6.02	179.85	187.11	4.26 3.86	255.68 231.53	15.56	21.87 21.76
23/02/2016 23/02/2016		32.22 32.52	5.86 5.28	179.19 180.00	186.98 187.38	4.24	254.33	15.56 15.56	22.39
23/02/2016		31.97	5.65	179.28	187.11	3.87	234.33	15.56	22.33
23/02/2016		32.40	5.79	179.24	186.84	4.05	242.70	15.56	22.18
23/02/2016		32.40	5.49	178.95	186.66	4.23	253.65	15.56	22.52
23/02/2016		31.94	5.58	180.90	187.29	3.88	232.65	15.56	21.78
23/02/2016		31.94	5.31	179.94	187.29	3.78	226.73	15.56	21.78
23/02/2016		31.91	5.42	180.33	188.01	4.17	250.28	15.56	22.28
23/02/2016		31.73	4.98	178.53	186.80	4.25	255.15	15.56	21.82
23/02/2016		31.80	5.18	180.75	187.20	3.72	223.35	15.56	22.12
23/02/2016		31.89	5.46	179.57	187.29	3.97	237.90	15.56	21.86
23/02/2016	16:17:00	31.83	5.13	178.72	187.97	4.26	255.45	15.56	21.94
23/02/2016	16:18:00	31.47	4.67	179.43	187.29	4.26	255.68	15.56	22.26
23/02/2016	16:19:00	32.00	5.07	179.00	187.34	4.22	253.20	15.56	22.56
23/02/2016	16:20:00	31.47	4.65	178.91	187.34	4.17	250.05	15.56	22.36
23/02/2016	16:21:00	31.86	4.77	180.56	187.92	3.64	218.48	15.56	22.41
23/02/2016		31.89	4.99	179.85	187.38	4.21	252.45	15.56	22.43
23/02/2016		31.98	4.43	179.75	187.02	4.05	243.15	15.56	21.89
23/02/2016			4.45	179.62	187.74	4.23	253.95	15.56	22.49
23/02/2016			4.42	180.24	188.06	4.07	244.13	15.56	21.82
23/02/2016			4.74	179.66	187.34	3.87	232.43	15.56	21.86
23/02/2016			3.90	180.24	188.15	3.87	232.43	15.56	22.38
23/02/2016		32.00	4.57	180.37	186.84	4.04	242.10	15.56	22.21
23/02/2016			4.94	179.62	187.47	4.20	252.15	15.56	22.31
23/02/2016			4.46	180.95	187.20	4.12	247.35	15.56	22.57
23/02/2016			4.53	180.00	187.83	4.15	248.78	15.56	21.94
23/02/2016 23/02/2016			4.50 4.91	180.95 179.38	187.38	3.87 4.15	231.98 249.08	15.56 15.56	21.79 21.74
23/02/2016			4.90	180.05	187.97 187.02	4.13	249.08	15.56	22.33
23/02/2016			4.45	179.90	187.74	3.82	229.35	15.56	21.81
23/02/2016			4.85	181.23	187.47	4.14	248.18	15.56	22.02
23/02/2016			4.87	179.34	187.07	3.91	234.75	15.56	22.05
23/02/2016			4.90	179.75	187.43	4.00	239.70	15.56	22.38
23/02/2016			4.54	184.50	187.20	3.89	233.55	15.56	21.76
23/02/2016			4.52	180.65	186.80	4.09	245.55	15.56	22.57
23/02/2016			4.41	181.70	186.80	3.84	230.63	15.56	21.86
23/02/2016			4.87	183.07	186.89	4.03	241.50	14.51	21.91
23/02/2016			4.53	182.51	186.62	3.98	238.88	15.53	22.44
23/02/2016			4.50	185.02	186.48	3.96	237.75	15.53	22.60
23/02/2016			4.71	183.12	187.70	3.90	233.93	15.53	21.91
23/02/2016	16:46:00	32.52	4.92	184.16	187.70	3.96	237.60	15.53	22.59

February 23/2016	Waste Flow	Waste Flows										
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow				
Test1	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT				
Max	32.70	6.30	185.02	188.15	4.26	255.68	15.79	22.60				
Min	31.26	3.90	175.21	185.36	3.43	205.58	14.51	21.74				
Average	32.01	5.17	179.67	187.17	4.00	239.76	15.55	22.16				
Variance	0.12	0.32	4.23	0.29	0.04	130.50	0.04	0.08				

	1	Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
\$Date	\$Time	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
23/02/2016	A	24204.8	15269.7	99132.0	1346.0	712.6	484.2	191.5	188.8	-11.35	-35.00	-144.56	179.06
23/02/2016		23672.5	15348.4	94912.0	1345.0	711.1	484.5	191.5	188.8	-5.55	-24.95	-129.23	223.25
23/02/2016	15:48:00	23935.2	15348.4	98447.0	1349.0	710.4	484.8	191.5	188.8	-10.90	-33.50	-146.66	174.31
23/02/2016	15:49:00	23762.4	15303.4	93418.0	1345.9	710.1	484.6	192.0	189.9	-4.40	-23.00	-127.09	224.00
23/02/2016	15:50:00	24114.9	15342.8	98179.0	1353.4	711.5	484.8	191.5	188.8	-10.70	-33.70	-146.59	176.31
23/02/2016	15:51:00	23935.2	15297.8	95268.0	1351.4	712.3	484.8	192.0	190.1	-6.10	-24.75	-131.63	214.38
23/02/2016	15:52:00	24114.9	15281.0	98863.0	1350.8	710.5	485.1	191.5	190.2	-12.05	-35.55	-148.13	173.25
23/02/2016	15:53:00	24114.9	15309.1	93973.0	1347.0	711.8	485.1	192.0	190.2	-6.20	-25.55	-130.95	199.63
23/02/2016		24025.1	15337.1	97769.0	1345.4	710.7	485.5	192.0	190.2	-12.50	-35.60	-148.76	183.31
23/02/2016		23762.4	15387.7	94885.0	1346.3	711.7	486.0	192.0	189.1	-4.15	-26.30	-125.36	224.25
23/02/2016		24204.8	15421.4	97862.0	1350.1	711.4	486.2	192.0	190.2	-12.65	-34.20	-149.63	182.56
23/02/2016		23845.3	15292.2	93510.0	1345.9	711.1	486.4	192.5	190.2	-4.20	-23.00	-124.73	227.69
23/02/2016		24204.8	15460.7	97769.0	1349.8	710.4	486.7	192.5	190.2	-12.35	-34.95	-148.61	185.69
23/02/2016		23762.4	15303.4	94295.0	1348.4	712.0	487.4	193.0	190.3	-5.55	-24.00	-130.69	222.19
23/02/2016		24294.7	15314.7	96276.0	1348.0	711.1	487.3	193.0	190.3	-8.15	-27.10	-144.64	198.69
23/02/2016		23582.7	15415.8	95411.0	1348.9	712.3	487.6	193.5	190.3	-4.65	-24.05	-128.93	209.50
23/02/2016		24204.8	15415.8	94323.0	1348.4	712.0	488.0	194.0	190.3	-6.60	-28.30	-136.16	237.13
23/02/2016		23679.4	15415.8	93156.0	1349.6	711.4	488.2	194.0	190.3	-4.90	-24.65	-126.00	247.75
23/02/2016		24204.8	15483.2	94214.0	1348.1	711.2	488.6	194.0	190.3	-6.40	-26.55	-136.46	248.00
23/02/2016 23/02/2016		23762.4 24114.9	15483.2 15612.4	94227.0 93512.0	1348.3 1348.9	711.9	489.0	194.0	190.3 190.3	-2.95 -7.75	-20.75 -28.00	-123.23	256.31
23/02/2016		24114.5	15398.9	94704.0	1345.5	711.2 711.2	489.1 489.4	194.0 194.5	190.3	-7.75 -4.75	-23.70	-141.08 -129.79	247.75 257.13
23/02/2016		24032.0	15539.4	94670.0	1347.5	711.2	489.5	194.5	191.4	-6.20	-26.80	-137.03	239.13
23/02/2016		23679.4	15438.3	93499.0	1347.4	713.1	489.8	194.5	191.4	-4.55	-22.90	-127.95	241.63
23/02/2016		24032.0	15432.7	93551.0	1347.6	711.5	490.2	194.5	191.4	-4.50	-24.90	-128.14	258.13
23/02/2016		23672.5	15545.0	93753.0	1344.9	711.3	490.4	194.5	191.4	-3.20	-21.05	-122.44	261.94
23/02/2016		23935.2	15545.0	93287.0	1344.9	711.9	490.1	194.5	191.4	-5.75	-23.40	-130.13	260.50
23/02/2016		23942.1	15432.7	92556.0	1347.0	710.3	490.5	194.5	191.4	-2.80	-19.80	-122.63	264.69
23/02/2016	16:14:00	24287.7	15623.7	93729.0	1345.5	711.7	490.5	194.0	191.4	-6.20	-26.15	-136.84	251.50
23/02/2016		23762.4	15522.5	93785.0	1343.5	711.4	490.5	194.5	191.4	-4.15	-22.75	-126.00	253.44
23/02/2016	16:16:00	24294.7	15522.5	94045.0	1342.9	709.7	490.5	194.0	192.5	-6.50	-24.60	-132.86	232.25
23/02/2016	16:17:00	23852.3	15421.4	94051.0	1345.6	710.3	490.7	194.5	191.4	-4.45	-22.10	-127.65	235.06
23/02/2016	16:18:00	23942.1	15500.1	94544.0	1342.4	712.9	489.9	194.0	191.4	-5.35	-24.95	-128.93	256.31
23/02/2016	16:19:00	23762.4	15500.1	94582.0	1341.9	711.5	490.1	193.5	191.4	-3.90	-21.25	-123.41	262.44
23/02/2016	16:20:00	23935.2	15528.2	94914.0	1339.4	711.4	490.2	193.0	191.4	-4.00	-22.60	-127.46	259.25
23/02/2016	16:21:00	23672.5	15460.7	92991.0	1340.4	712.0	489.8	193.0	191.4	-2.30	-21.25	-122.06	265.13
23/02/2016	16:22:00	24025.1	15584.3	95519.0	1340.6	708.8	489.7	192.5	191.2	-6.85	-25.70	-134.70	250.81
23/02/2016	16:23:00	24101.1	15584.3	93999.0	1341.4	710.9	489.4	192.5	191.2	-5.60	-24.05	-126.75	250.50
23/02/2016		24204.8	15488.8	94945.0	1339.9	714.3	489.4	192.5	191.2	-6.75	-26.65	-132.49	227.25
23/02/2016		23852.3	15443.9	94578.0	1340.5	712.0	488.9	192.5	191.2	-5.95	-23.50	-128.33	228.56
23/02/2016		24032.0	15443.9	92997.0	1341.3	712.9	488.6	192.5	190.1	-5.05	-25.80	-128.33	246.19
23/02/2016		24025.1	15443.9	93337.0	1340.1	711.8	488.4	192.0	190.1	-4.55	-22.25	-124.61	253.38
23/02/2016		23859.2	15550.6	94217.0	1338.3	711.2	488.3	191.5	190.1	-5.65	-23.80	-127.84	253.63
23/02/2016		24025.1	15595.6	92974.0	1338.4	712.6	488.2	191.5	190.1	-3.75	-23.45	-123.64	258.13
23/02/2016		24025.1	15567.5	94684.0	1336.3	711.5	487.9	191.0	190.1	-7.20	-26.20	-131.93	244.56
23/02/2016		24025.1	15567.5	94605.0	1337.8	712.5	487.6	191.5	190.1	-5.70	-24.55	-128.70	251.75
23/02/2016		24025.1	15421.4	93868.0	1329.8	713.9	487.7	191.0	190.1	-7.30	-27.25	-133.24	225.06
23/02/2016		24025.1	15539.4	95091.0	1330.1	712.8	487.7	191.0	190.1	-6.50	-26.05	-129.64	230.31
23/02/2016 23/02/2016		24114.9	15376.5	94401.0	1330.5	711.3	487.4	191.5	189.1	-5.40	-26.40	-129.30	246.69
23/02/2016		23762.4 24114.9	15516.9 15415.8	94837.0 93645.0	1330.1	711.4 713.7	487.1	191.0 191.0	189.1 189.1	-4.05 -4.30	-21.90 -23.70	-125.96	247.38
23/02/2016		24114.9	15410.2	92678.0	1329.6 1333.0	713.7	487.2	191.0				-126.49 124.16	244.50
23/02/2016		24025.1	15528.2	94411.0	1333.0	711.2	486.5 486.8	191.0	189.1 189.1	-4.35 -6.25	-22.70 -26.50	-124.16 -131.63	253.81 235.88
23/02/2016		23672.5	15528.2	93956.0	1331.1	710.5	486.8 486.6	191.0	189.1	-6.25 -4.85	-24.25	-131.63	235.88
23/02/2016		24197.9	15573.1	95936.0 95534.0	1330.6	712.8	486.8 486.8	190.5	190.2	-4.85 -7.70	-24.23	-128.14	231.88
23/02/2016		24025.1	15373.1	96854.0	1327.8	712.3	486.7	191.5	189.0	-6.80	-30.35	-135.90	205.50
23/02/2016		23852.3	15488.8	94718.0	1332.5	710.9	486.9	191.5	189.0	-3.40	-23.75	-135.50	246.50
23/02/2016		24025.1	15488.8	96504.0	1336.9	710.5	487.0	192.0	189.1	-9.20	-29.75	-135.71	204.31
23/02/2016		23755.5	15488.8	94578.0	1332.5	712.3	487.7	192.0	189.1	-2.65	-20.80	-126.04	249.31
23/02/2016		24114.9	15483.2	98097.0	1338.3	711.6	487.7	192.5	189.1	-9.40	-31.50	-139.31	206.56
23/02/2016		23852.3	15539.4	94456.0	1335.8	710.1	488.4	193.0	190.2	-4.60	-21.90	-129.79	246.31
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February 23/2016	Air Flows			Temperatures				***************************************	Pressures		CONTRACTOR	Date of the second seco
	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test1	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	24294.7	15623.7	99132.0	1353.4	714.3	490.7	194.5	192.5	-2.30	-19.80	-122.06	265.13
Min	23582.7	15269.7	92556.0	1327.6	708.8	484.2	190.5	188.8	-12.65	-35.60	-149.63	173.25
Average	23970.2	15455.6	94812.2	1341.9	711.6	487.9	192.6	190.3	-6.11	-25.76	-131.68	232.68
Variance	33963.7	8540.0	2580435.8	46.9	1.0	3.3	1.5	0.9	6.50	15.89	55.06	664.89

		со	HCI	CO2	H2O	ТНС	02	Opacity	SO2
		PPM	PPM	%	%	PPM	%	%	PPM
\$Date	\$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
23/02/2016	15:46:00	31.1	31.14	8.51	40.06	24.6	12.98	1.30	596.0
23/02/2016	15:47:00	33.0	31.09	8.99	40.06	24.4	13.15	1.33	608.9
23/02/2016	15:48:00	35.1	32.41	9.12	40.06	28.1	13.26	1.48	619.6
23/02/2016	15:49:00	38.4	33.03	9.14	40.06	26.4	13.24	1.23	627.5
23/02/2016	15:50:00	39.0	32.58	9.10	40.06	28.5	13.19	1.33	624.1
23/02/2016	15:51:00	41.2	32.95	9.26	40.06	25.1	13.25	1.28	637.7
23/02/2016	15:52:00	36.9	33.20	9.22	40.06	27.2	13.14	1.30	633.3
23/02/2016	15:53:00	36.2	33.64	9.18	40.06	24.7	13.08	1.23	629.5
23/02/2016	15:54:00	34.2	31.79	8.96	40.06	25.1	12.92	1.37	608.8
23/02/2016	15:55:00 15:56:00	35.5	32.83	9.17	40.06	25.5	13.10	1.31	627.5
23/02/2016		37.8	34.05	9.24	40.06	28.0	13.14	1.43	646.0
23/02/2016	15:57:00 15:58:00	40.3	34.58	9.25	40.06	26.2	13.12	1.25	649.4
23/02/2016 23/02/2016	15:59:00	39.6 41.9	34.48 34.45	9.21 9.30	40.06 40.06	28.3 25.6	13.03 13.06	1.33 1.27	646.9 661.8
23/02/2016	16:00:00	41.2	34.43	9.28	40.06	25.6	13.00	1.33	659.1
23/02/2016	16:01:00	40.3	34.24	9.20	40.06	26.4	12.81	1.33	649.7
23/02/2016	16:02:00	42.4	34.51	9.11	40.06	27.3	12.75	1.33	641.5
23/02/2016	16:03:00	45.7	34.55	9.30	40.06	27.0	12.91	1.40	659.7
23/02/2016	16:04:00	44.0	34.12	9.31	40.06	27.9	12.88	1.50	659.7
23/02/2016	16:05:00	43.4	34.16	9.32	40.06	27.1	12.79	1.21	661.6
23/02/2016	16:06:00	42.2	35.23	9.30	40.06	27.0	12.73	1.42	665.1
23/02/2016	16:07:00	42.9	35.16	9.38	40.06	26.5	12.77	1.25	673.8
23/02/2016	16:08:00	40.9	34.36	9.39	40.06	25.4	12.70	1.31	672.5
23/02/2016	16:09:00	37.8	34.50	9.17	40.06	25.0	12.51	1.26	651.8
23/02/2016	16:10:00	35.8	33.62	9.08	40.06	24.8	12.48	1.38	644.5
23/02/2016	16:11:00	36.8	34.23	9.23	40.06	25.5	12.63	1.43	658.5
23/02/2016	16:12:00	38.0	35.40	9.36	40.06	26.5	12.71	1.48	673.5
23/02/2016	16:13:00	38.2	35.28	9.35	40.06	26.6	12.69	1.23	675.7
23/02/2016	16:14:00	37.2	34.03	9.31	40.06	26.8	12.64	1.50	675.0
23/02/2016	16:15:00	36.7	35.12	9.38	40.06	25.8	12.64	1.27	675.6
23/02/2016	16:16:00	33.4	33.90	9.27	40.06	24.6	12.55	1.32	665.3
23/02/2016	16:17:00	33.4	33.64	9.20	40.06	25.9	12.49	1.28	655.7
23/02/2016	16:18:00	37.3	34.19	9.17	40.06	23.9	12.54	1.35	653.3
23/02/2016	16:19:00	35.5	34.12	9.20	40.06	26.0	12.63	1.36	658.2
23/02/2016	16:20:00		33.62	9.21	40.06	24.0	12.66	1.36	661.0
23/02/2016			32.74	9.15	40.06	26.3	12.63	1.25	656.6
23/02/2016			33.14	9.15	40.06	25.2	12.64	1.33	657.6
23/02/2016	16:23:00		33.29	9.30	40.06	25.9	12.72	1.30	669.2
23/02/2016			32.77	9.23	40.06	22.6	12.68	1.30	663.0
23/02/2016			31.53	9.02	40.06	24.0	12.60	1.31	644.6
23/02/2016	16:26:00		31.53	9.00	40.06	23.5	12.66	1.32	643.0
23/02/2016			32.86	9.16	40.06	25.7	12.81	1.37	655.8
23/02/2016			32.66	9.20	40.06	23.1	12.83	1.27	660.9
23/02/2016 23/02/2016			32.24	9.16	40.06	26.4	12.78	1.25	652.6
23/02/2016			31.54	9.18 9.17	40.06 40.06	23.5	12.83	1.31	657.2 659.0
23/02/2016			32.06 32.49	9.17	40.06	25.2 22.5	12.83 12.86	1.27 1.25	662.0
23/02/2016			32.49	9.20 8.98	40.06	25.0	12.74	1.25	641.2
23/02/2016			32.26	9.05	40.06	24.0	12.74	1.27	645.1
23/02/2016			32.26	9.09	40.06	27.4	12.90	1.40	649.3
23/02/2016			33.70	9.17	40.06	24.7	13.04	1.20	662.2
23/02/2016			32.51	9.13	40.06	28.4	12.99	1.25	660.8
23/02/2016			32.95	9.23	40.06	25.0	13.05	1.30	671.3
23/02/2016			32.56	9.22	40.06	26.9	13.03	1.30	668.3
23/02/2016			32.00	9.14	40.06	24.8	12.91	1.30	660.6
23/02/2016			31.71	9.06	40.06	27.3	12.84	1.30	656.9
23/02/2016			32.22	9.15	40.06	25.6	12.93	1.31	669.9
23/02/2016			33.47	9.26	40.06	30.2	13.00	1.38	685.9
23/02/2016			33.90	9.34	40.06	26.1	12.98	1.27	701.8
23/02/2016	16:45:00	45.2	33.37	9.28	40.06	31.1	12.89	1.33	698.9
23/02/2016	16:46:00	51.8	34.95	9.41	40.06	26.4	12.90	1.30	714.3

February 23/2016	Analyzers	THE COLUMN SECURE AND ADDRESS OF	TO THE PERSON NAMED IN THE				<u> </u>	
	СО	HCI	CO2	H2O	THC	02	Opacity	SO2
Test1	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264
Max	51.8	35.40	9.41	40.06	31.1	13.26	1.50	714.3
Min	29.9	31.09	8.51	40.06	22.5	12.48	1.20	596.0
Average	36.8	33.33	9.19	40.06	25.9	12.86	1.32	655.3
Variance	22.0	1.28	0.02	0.00	2.8	0.04	0.00	439.9

	I	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PAC
		LPM	LPM	LPM	LPM	LPM	SCFM	LPM	Lbs/h
\$Date	Time	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT
23/02/2016	17:02:00	32.22	5.30	182.13	187.38	4.17	250.35	15.53	22.56
23/02/2016	17:03:00	32.19	5.04	183.22	187.29	4.08	244.50	15.53	22.49
23/02/2016	17:04:00	32.00	5.58	183.22	186.30	3.87	232.13	15.53	21.84
23/02/2016	17:05:00	31.67	5.54	182.70	187.07	4.12	247.35	15.53	22.10
23/02/2016	17:06:00	32.21	5.47	183.84	187.29	4.11	246.45	15.53	22.41
23/02/2016	17:07:00	32.12	5.28	182.70	187.47	4.10	245.70	15.53	22.59
23/02/2016	17:08:00	32.31	5.70	184.12	187.65	4.17	250.35	15.53	21.78
23/02/2016	17:09:00 17:10:00	32.27 32.34	5.19 5.92	182.79 183.35	186.89 187.43	4.06 4.17	243.68 249.90	15.53 15.53	22.44 22.43
23/02/2016 23/02/2016	17:11:00	32.34	5.92	182.51	187.43	4.17	249.30	15.53	22.45
23/02/2016	17:12:00	32.54	5.64	183.65	187.56	4.00	239.78	15.53	22.12
23/02/2016	17:13:00	32.13	5.34	181.80	187.16	4.10	245.70	15.53	21.89
23/02/2016	17:14:00	32.45	5.42	182.41	187.83	3.94	236.48	15.53	22.49
23/02/2016	17:15:00	32.25	4.75	182.94	186.89	4.08	244.58	15.53	22.20
23/02/2016	17:16:00	32.25	5.37	183.31	187.43	4.05	243.15	15.53	21.97
23/02/2016	17:17:00	31.76	5.37	182.27	186.89	4.08	244.65	15.53	21.79
23/02/2016	17:18:00	32.40	5.03	183.41	187.61	3.99	239.33	15.53	22.64
23/02/2016	17:19:00	31.83	5.68	183.54	186.80	4.06	243.38	15.53	21.97
23/02/2016	17:20:00	32.15	5.25	181.89	186.80	4.03	241.50	15.60	21.92
23/02/2016	17:21:00	31.79	5.34	182.84	187.34	4.07	243.90	15.60	21.78
23/02/2016	17:22:00	31.86	5.24	183.26	187.56	4.02	241.43	15.60	22.54
23/02/2016	17:23:00	31.80	5.08	182.45	186.84	4.11	246.53	15.60	22.18
23/02/2016	17:24:00	31.68	5.14	182.75	187.83	4.00	240.08	15.60	22.57
23/02/2016	17:25:00	31.56	5.08	182.88	187.79	4.05	242.70	15.60	22.38
23/02/2016	17:26:00 17:27:00	31.74 31.13	5.11 4.74	182.94 182.41	187.79 187.02	4.03 3.99	241.58 239.33	15.60 15.60	22.43 22.26
23/02/2016 23/02/2016	17:27:00	31.38	4.74	182.41	187.02	4.00	239.33	15.60	22.47
23/02/2016	17:29:00	31.52	4.88	183.07	187.02	4.08	244.65	15.60	21.76
23/02/2016	17:30:00	31.65	5.21	182.88	187.56	3.97	238.28	15.60	21.89
23/02/2016	17:31:00	31.76	5.24	184.40	187.02	4.04	242.48	15.60	22.02
23/02/2016	17:32:00	31.80	4.69	182.41	187.02	4.03	241.80	15.60	22.31
23/02/2016	17:33:00	31.85	5.24	184.64	187.02	4.00	240.15	15.60	22.12
23/02/2016	17:34:00	32.52	4.95	182.75	187.61	4.13	247.73	15.60	22.59
23/02/2016	17:35:00	32.37	5.18	183.60	187.16	4.09	245.63	15.60	22.57
23/02/2016	17:36:00	32.64	5.13	183.17	188.33	4.08	244.73	15.60	21.81
23/02/2016	17:37:00	32.37	5.24	183.65	187.79	3.94	236.55	15.60	21.78
23/02/2016	17:38:00	32.69	5.29	181.80	188.33	3.99	239.10	15.60	22.51
23/02/2016	17:39:00	32.93	5.10	182.17	187.38	4.16	249.45	15.60	22.38
23/02/2016	17:40:00	32.46	4.94	181.80	186.71	4.22	253.28	15.60	22.13
23/02/2016	17:41:00	32.31	4.73	183.60	186.62	3.98	238.58	15.60	22.31 22.60
23/02/2016	17:42:00 17:43:00	32.30 32.09	4.71 5.06	182.27 182.79	186.62 186.62	4.05 4.07	243.00 243.90	15.60 14.51	22.50
23/02/2016 23/02/2016	17:43:00	32.40	5.06	182.04	187.16	3.85	230.93	15.64	22.37
23/02/2016	17:45:00	32.58	5.26	183.65	186.62	3.23	193.58	15.64	22.38
23/02/2016	17:46:00	32.60	4.92	182.55	187.29	3.98	238.80	15.64	21.79
23/02/2016			5.22	183.41	187.25	4.21	252.38	15.64	21.73
23/02/2016	17:48:00		5.30	183.45	187.38	4.16	249.60	15.64	22.07
23/02/2016			5.34	182.75	186.80	3.98	238.65	15.64	21.74
23/02/2016	17:50:00	32.57	4.91	181.89	187.56	3.92	234.98	15.64	22.20
23/02/2016	17:51:00	32.99	4.71	183.22	185.85	4.12	247.05	15.64	21.87
23/02/2016	17:52:00	32.30	4.58	180.95	186.53	4.24	254.40	15.64	22.52
23/02/2016	17:53:00	32.57	4.88	182.36	186.53	4.15	248.70	15.64	22.51
23/02/2016			4.58	180.99	186.53	4.18	250.95	15.64	22.25
23/02/2016	17:55:00		4.92	182.88	186.98	3.75	224.70	15.64	22.30
23/02/2016			4.57	181.18	186.89	4.12	247.05	15.64	22.57
23/02/2016			5.01	183.69	186.89	4.09	245.25	15.64	21.84
23/02/2016			4.79	183.03	187.43	3.92	235.43	15.64	21.89
23/02/2016			4.81	182.70	187.52	3.86	231.38	15.64 15.64	22.34
23/02/2016 23/02/2016			4.70 4.98	181.89 182.79	186.98 187.02	3.94 4.15	236.55 249.15	15.64 15.64	22.47 21.84
23/02/2016	18:02:00		5.04	181.46	186.84	4.13	254.03	15.64	22.60
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February 23/2016	Waste Flow	Waste Flows										
	Rich	Emulsion	Lean	Alkaline	TDU Flow	TDU Flow	Leachate	PACFlow				
Test1	FT-229	FT-219C	FT-223	PV-207	FT-313B	FT-313	PV-211	SC-PAC-FT				
Max	33.21	5.92	184.64	188.33	4.24	254.40	15.64	22.64				
Min	31.13	4.57	180.95	185.85	3.23	193.58	14.51	21.73				
Average	32.24	5.11	182.76	187.16	4.04	242.35	15.57	22.22				
Variance	0.19	0.09	0.63	0.22	0.02	75.59	0.02	0.09				

		Primary	Secondary	Stack	Primary	Secondary	Quench	SDA	Stack	Incinerator	SDA Inlet	BH Inlet	BH dP
		m3/h	m3/h	m3/h	Degrees C	Degrees C	Degrees C	Degrees C	Degrees C	mmH2O	mmH2O	mmH2O	mmH2O
\$Date \$	Time	PV-236	PV-209	FT-260C	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
23/02/2016	17:02:00	23762.4	15539.4	92405.0	1347.9	713.5	497.5	199.5	193.7	-2.95	-20.10	-126.75	244.38
	17:03:00	24287.7	15533.8	94109.0	1346.6	711.2	498.2	199.5	194.9	-4.15	-24.55	-137.10	221.13
	17:04:00	23852.3	15516.9	93153.0	1343.8	710.6	498.9	200.0	194.9	-3.55	-21.00	-125.48	224.25
23/02/2016		24025.1	15421.4	93753.0	1338.9	712.5	499.5	200.5	194.9	-4.40	-22.25	-132.08	244.31
23/02/2016		23755.5	15404.6	92840.0	1343.1	712.5	499.5	200.5	194.9	-2.15	-19.85	-121.20	244.88
23/02/2016		23935.2	15516.9	92749.0	1342.8	713.4	499.7	200.0	194.9	-4.40	-22.70	-131.14	241.56
	17:08:00	23755.5 24197.9	15398.9	93123.0 94810.0	1343.1 1343.0	713.7 712.3	499.9 500.1	200.0 199.5	194.9 194.9	-1.55 -4.20	-19.90 -23.00	-119.14 -135.53	247.8 <u>1</u> 236.19
23/02/2016 23/02/2016		23672.5	15618.0 15494.4	93101.0	1343.0	714.1	500.2	200.0	196.1	-1.90	-19.80	-133.33	241.19
23/02/2016		23935.2	15494.4	94457.0	1341.6	711.8	500.3	199.5	196.1	-4.45	-23.20	-131.14	224.75
23/02/2016		23845.3	15460.7	93753.0	1341.8	713.2	499.9	199.5	196.2	-4.25	-22.35	-126.56	233.56
23/02/2016		23935.2	15460.7	93862.0	1340.5	712.4	499.8	199.5	196.2	-2.70	-21.10	-127.28	256.81
23/02/2016		23762.4	15460.7	93201.0	1340.6	713.5	499.7	199.0	195.1	-2.75	-22.05	-121.99	259.31
23/02/2016		24025.1	15365.2	93662.0	1341.0	714.0	499.5	199.0	195.1	-4.40	-24.00	-128.36	252.00
23/02/2016	17:16:00	23762.4	15494.4	93159.0	1339.4	713.4	499.6	198.5	195.1	-2.55	-20.90	-121.58	254.06
23/02/2016	17:17:00	24294.7	15494.4	94474.0	1338.6	712.6	499.0	198.0	195.1	-5.20	-25.30	-133.99	241.75
23/02/2016	17:18:00	23935.2	15494.4	92744.0	1337.4	713.9	498.7	198.0	195.1	-3.10	-22.10	-125.93	245.75
23/02/2016	17:19:00	24114.9	15494.4	95921.0	1331.1	714.2	498.3	197.5	195.1	-7.45	-26.15	-132.38	220.50
23/02/2016	17:20:00	23935.2	15494.4	93702.0	1332.0	715.2	497.6	197.5	195.1	-5.20	-22.95	-127.95	225.44
23/02/2016		23852.3	15494.4	93275.0	1331.9	714.9	497.2	197.0	194.0	-5.60	-24.45	-128.78	244.75
23/02/2016		23852.3	15494.4	94105.0	1335.3	712.0	496.6	196.5	194.0	-3.80	-20.10	-123.38	249.31
	17:23:00	23935.2	15494.4	93639.0	1333.6	713.9	496.0	196.0	194.0	-4.20	-21.90	-127.61	246.88
23/02/2016		23845.3	15376.5	92449.0	1335.4	713.5	495.5	195.5	194.0	-2.95	-19.60	-122.36	256.19
23/02/2016		24377.6	15354.0	94247.0	1331.9	713.5	495.0	195.0	194.0	-6.50	-25.05	-134.18	238.94
23/02/2016 23/02/2016		24114.9	15505.7	94067.0	1330.8	715.1	494.2 493.8	194.5 194.5	194.1 194.1	-3.90 -5.20	-22.80 -24.55	-129.94 -133.80	242.94
23/02/2016		24108.0 24025.1	15505.7 15505.7	95279.0 94144.0	1330.8 1332.6	712.7 713.6	493.4	194.0	194.1	-5.20 -5.15	-24.33	-133.80	223.56 227.25
23/02/2016		23935.2	15511.3	94619.0	1326.9	713.3	492.8	194.0	192.8	-5.55	-25.00	-128.66	244.06
23/02/2016		24108.0	15466.4	93827.0	1328.0	713.1	492.2	193.5	192.8	-6.20	-26.40	-126.56	250.75
23/02/2016		24114.9	15483.2	94045.0	1327.8	713.1	491.6	193.5	192.9	-5.15	-23.65	-128.89	242.50
23/02/2016		23935.2	15590.0	93130.0	1326.3	712.2	491.5	193.0	191.6	-3.70	-21.40	-124.61	252.50
23/02/2016		24025.1	15713.6	94880.0	1322.1	713.9	491.1	193.5	191.6	-7.05	-28.00	-135.75	239.75
23/02/2016		23935.2	15539.4	95018.0	1323.4	713.6	490.8	193.5	192.7	-6.85	-26.60	-130.09	242.81
23/02/2016	17:35:00	24025.1	15539.4	95648.0	1322.8	713.9	490.4	193.5	192.7	-7.70	-26.85	-135.23	217.31
23/02/2016	17:36:00	24197.9	15539.4	93734.0	1322.3	712.7	490.3	193.5	191.5	-6.60	-24.85	-130.61	219.31
23/02/2016	17:37:00	24025.1	15567.5	93791.0	1324.5	711.7	490.2	193.5	191.5	-5.80	-25.00	-129.83	239.69
23/02/2016		23935.2	15590.0	93297.0	1327.4	711.9	489.5	193.5	191.5	-8.20	-30.70	-129.45	219.44
23/02/2016		23935.2	15590.0	95180.0	1327.8	711.2	489.9	193.5	191.5	-5.20	-24.30	-128.10	244.25
23/02/2016		23845.3	15595.6	97953.0	1328.3	714.2	489.6	193.5	191.5	-12.25	-35.25	-134.51	208.56
23/02/2016		24108.0	15488.8	94748.0	1325.5	712.3	489.4	194.0	191.5	-7.35	-26.65	-133.50	242.75
23/02/2016		24032.0	15668.6	97481.0	1326.6	714.4	489.8	194.0	191.5	-10.50	-34.40	-136.91	204.31
23/02/2016		24287.7	15449.5	95065.0	1324.0	712.5	489.8	194.5	191.6	-6.40	-26.20	-132.79	226.00
23/02/2016		24108.0	15567.5	98785.0 92283.0	1327.8 1330.5	714.0 714.2	489.8 489.8	194.5 195.0	191.6 191.6	-12.90 -4.70	-35.30 -24.30	-144.83 -127.28	206.38 247.38
23/02/2016 23/02/2016	17:45:00	24025.1 24197.9	15415.8 15488.8	99027.0	1333.5	714.2	490.2	194.5	191.6	-12.20	-35.95	-127.28	204.75
23/02/2016	17:47:00	23845.3	15533.8	92871.0	1332.0	711.8	490.4	195.0	191.6	-4.65	-23.05	-127.28	251.69
23/02/2016		24025.1	15522.5	98591.0	1336.6	712.4	490.2	195.0	191.6	-12.50	-36.35	-146.85	202.19
23/02/2016			15415.8	93679.0	1332.6	712.1	490.4	195.5	191.6	-5.65	-23.65	-130.76	237.75
23/02/2016			15410.2	98497.0	1337.4	713.3	490.8	195.5	192.8	-12.60	-34.80	-146.51	197.25
23/02/2016			15449.5	94947.0	1334.0	713.7	491.1	196.0	192.8	-6.15	-25.35	-130.80	224.88
23/02/2016	17:52:00		15545.0	98383.0	1334.4	710.4	490.8	196.0	192.8	-13.85	-36.45	-149.10	210.13
23/02/2016	17:53:00	24197.9	15646.1	92980.0	1333.5	712.6	490.8	196.0	192.8	-4.55	-24.15	-126.64	250.38
23/02/2016	17:54:00	24460.6	15533.8	98383.0	1334.5	711.5	491.3	195.5	192.8	-14.45	-37.95	-151.69	208.50
23/02/2016			15550.6	93841.0	1333.4	713.4	490.7	196.0	192.8	-4.90	-22.35	-127.13	249.38
23/02/2016			15651.8	98212.0	1333.0	712.8	490.8	195.5	192.8	-13.15	-37.15	-151.09	196.94
23/02/2016			15460.7	94026.0	1330.3	714.3	490.9	196.0	192.8	-5.90	-25.75	-130.24	231.50
23/02/2016			15584.3	98208.0	1331.3	714.1	491.1	196.0	192.8	-9.45	-29.50	-145.09	209.00
23/02/2016			15584.3	95105.0	1332.6	711.2	490.6	196.0	192.5	-6.15	-24.20	-130.76	217.31
23/02/2016			15578.7	95587.0	1330.8	712.9	490.9	196.0	192.5	-7.00	-27.00	-137.63	242.13
23/02/2016 23/02/2016			15477.6 15590.0	94500.0 95296.0	1331.8 1328.8	712.4 713.0	491.0 490.6	196.0 195.5	192.5 192.5	-5.05 -8.45	-24.10 -27.00	-126.26 -138.41	246.56 246.31
23/02/2010	10.02.00	243/1.0	13330.0	33230.0	1320.0	, 13.0	U.UC+	د.رر	134.3	··	-27.00	-130.41	240.31

February 23/2016	Air Flows			Temperatures	VI.	***************************************	DANNERS AND THE STREET STREET,		Pressures	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SAGSHIDHERREEDENHAMINING
	Primary	Secondary	Stack	Primary	Secondary	Quench	SprayDryer	Stack	Incinerator	SDA Inlet	SD Outlet	Baghouse
Test1	PV-236	PV-209c	FT-260c	TE-240	TE-241	TE-203	TE-204	TE-258	PT-242A	PT-249	PT-615	PDT-622
Max	24460.6	15713.6	99027.0	1347.9	715.2	500.3	200.5	196.2	-1.55	-19.60	-119.14	259.31
Min	23672.5	15354.0	92283.0	1322.1	710.4	489.4	193.0	191.5	-14.45	-37.95	-151.69	196.94
Average	24050.0	15511.9	94685.2	1333.4	713.0	493.9	196.2	193.3	-6.19	-25.65	-131.72	233.83
Variance	38819.2	5440.4	3406529.6	41.5	1.1	16.2	5.3	2.2	10.24	24.22	56.42	282.72

			1101	603	1120	Tuc	^2	0	603
		CO PPM	HCI PPM	CO2 %	H2O %	THC PPM	02 %	Opacity %	SO2 PPM
\$Date	\$Time	AT-205CORR	AT-213A	AT-213B	AT-213C	AT-259CORR	AT-261	AT-263	AT-264
23/02/2016	17:02:00	95.0	W	9.70	40.06	29.7	Manager Committee of the Committee of th	1.27	779.1
23/02/2016	17:02:00	95.0 77.0	38.96	9.70	40.06	29.7	12.12		779.1 770.9
23/02/2016	17:03:00	65.7	38.88 39.39	9.53	40.06	26.6	12.00 11.87	1.36 1.26	770.9 756.4
23/02/2016	17:04:00	54.4	40.15	9.31	40.06	27.4	11.77	1.36	735.8
23/02/2016	17:06:00	58.3	40.13	9.46	40.06	27.5	11.77	1.42	733.8
23/02/2016	17:07:00	60.6	40.50	9.52	40.06	28.6	12.00	1.58	747.7
23/02/2016	17:08:00	60.9	39.69	9.55	40.06	28.9	11.98	1.27	743.1 752.7
23/02/2016	17:09:00	61.6	39.40	9.51	40.06	30.7	11.94	1.50	746.0
23/02/2016		67.3	38.91	9.62	40.06	29.5	11.99	1.33	751.8
23/02/2016	17:11:00	65.3	37.85	9.61	40.06	23.5 27.5	11.97	1.40	748.9
23/02/2016	17:11:00	58.9	36.98	9.46	40.06	26.8	11.82	1.36	748.9
23/02/2016	17:12:00	50.5	36.25	9.33	40.06	26.6	11.82	1.42	728.4
23/02/2016	17:14:00	54.2	36.23	9.45	40.06	28.6	12.00	1.45	717.9
23/02/2016	17:14:00	53.5	35.51	9.49	40.06	25.8	12.03	1.43	717.9
23/02/2016	17:15:00	49.1	33.74	9.41	40.06	27.0	11.98	1.31	720.2
23/02/2016	17:17:00	46.8	33.01	9.40	40.06	25.8	12.05	1.43	713.6
23/02/2016	17:17:00	44.8	31.92	9.38	40.06	26.1	12.03	1.43	706.3
23/02/2016	17:19:00	39.7	32.77	9.37	40.06	23.9	12.04	1.36	697.0
23/02/2016	17:19:00	37.9	31.67	9.13	40.06	25.4	12.00	1.36	669.7
23/02/2016	17:20:00	37.9 37.9		9.13	40.06	23.4	12.03		
23/02/2016	17:21:00	37.9 37.7	30.62 30.50	9.06	40.06	26.3	12.03	1.37 1.42	663.1 673.8
23/02/2016	17:23:00	39.2	30.84	9.31	40.06	24.4	12.40	1.33	679.9
23/02/2016	17:24:00	38.4	28.53	9.22	40.06	26.9	12.40	1.33	668.9
23/02/2016	17:24:00	37.6	28.82	9.26	40.06	24.5	12.39	1.45	673.4
23/02/2016	17:26:00	37.6 37.7	28.50	9.29	40.06	26.9	12.39	1.43	674.8
23/02/2016	17:27:00	35.7	28.33	9.20	40.06	23.2	12.43	1.27	661.8
23/02/2016	17:27:00	34.6	28.05	9.08	40.06	25.2	12.41	1.33	650.7
23/02/2016	17:29:00	31.7	26.72	9.03	40.06	23.4	12.57	1.33	645.9
23/02/2016	17:30:00	33.6	27.43	9.15	40.06	27.0	12.63	1.36	655.2
23/02/2016	17:30:00		27.33	9.22	40.06	23.8	12.71	1.27	665.6
23/02/2016	17:31:00		26.98	9.19	40.06	27.6	12.71	1.27	661.6
23/02/2016	17:32:00	36.2	27.75	9.24	40.06	24.3	12.74	1.33	668.4
23/02/2016	17:34:00	35.2	27.52	9.24	40.06	28.1	12.72	1.33	667.2
23/02/2016	17:35:00	36.8	27.64	9.29	40.06	24.4	12.75	1.31	670.9
23/02/2016	17:36:00		26.73	9.07	40.06	26.2	12.59	1.33	651.5
23/02/2016	17:37:00		26.86	9.14	40.06	25.4	12.73	1.36	657.7
23/02/2016	17:38:00		27.43	9.20	40.06	28.9	12.79	1.38	663.2
23/02/2016	17:39:00	44.4	28.51	9.27	40.06	25.7	12.82	1.27	674.5
23/02/2016	17:40:00	42.9	27.02	9.21	40.06	28.4	12.73	1.27	671.7
23/02/2016	17:41:00		26.69	9.26	40.06	23.8	12.75	1.30	679.4
23/02/2016	17:42:00		26.87	9.28	40.06	26.8	12.74	1.35	679.0
23/02/2016	17:43:00		27.55	9.21	40.06	23.9	12.64	1.30	673.2
23/02/2016	17:44:00	34.1	26.90	9.02	40.06	26.0	12.55	1.36	655.3
23/02/2016		37.9	27.22	9.14	40.06	25.8	12.68	1.33	666.3
23/02/2016			28.31	9.31	40.06	29.8	12.83	1.48	687.4
23/02/2016			27.90	9.39	40.06	27.7	12.80	1.23	700.0
23/02/2016			27.18	9.39	40.06	29.7	12.75	1.40	700.0
23/02/2016			28.61	9.45	40.06	26.7	12.72	1.31	708.7
23/02/2016			28.02	9.43	40.06	28.6	12.62	1.30	703.3
23/02/2016			28.14	9.38	40.06	24.2	12.54	1.26	698.0
23/02/2016			27.03	9.16	40.06	25.7	12.36	1.35	672.1
23/02/2016			28.37	9.23	40.06	25.4	12.51	1.30	679.2
23/02/2016			29.20	9.26	40.06	26.3	12.55	1.52	683.8
23/02/2016			29.45	9.30	40.06	25.1	12.54	1.20	689.6
23/02/2016			28.89	9.25	40.06	26.7	12.52	1.36	687.4
23/02/2016			28.66	9.32	40.06	25.0	12.58	1.27	695.6
23/02/2016			28.02	9.29	40.06	26.1	12.54	1.33	687.9
23/02/2016			28.44	9.19	40.06	25.6	12.44	1.27	676.0
23/02/2016			27.82	9.13	40.06	25.6	12.42	1.36	669.4
23/02/2016			28.70	9.27	40.06	26.4	12.61	1.33	683.1
23/02/2016			29.46	9.33	40.06	27.6	12.64	1.38	691.9

February 23/2016	Analyzers										
	со	HCI	CO2	H2O	THC	02	Opacity	SO2			
Test1	AT-205	AT-213A	AT-213B	AT-213C	AT-259	AT-261	AT-263	AT-264			
Max	95.0	40.30	9.70	40.06	30.7	12.83	1.58	779.1			
Min	31.7	26.69	9.02	40.06	23.2	11.77	1.20	645.9			
Average	44.8	30.84	9.31	40.06	26.4	12.39	1.35	693.1			
Variance	146.0	20.54	0.02	0.00	3.2	0.10	0.01	1089.3			