



## Report:

# Mercury Emission Testing at the Clean Harbors Sarnia Facility (March 2017)

Date: April 5, 2017



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## Mercury Emission Testing at the Clean Harbors Sarnia Facility (March 2017)

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# Table of Contents

|  | Page |
|--|------|
| EXECUTIVE SUMMARY .....                            | 4    |
| 1. INTRODUCTION .....                              | 5    |
| 2. SAMPLING LOCATION .....                         | 5    |
| 3. SAMPLING METHODOLOGY .....                      | 6    |
| 4. ANALYSIS METHODOLOGY .....                      | 7    |
| 5. QUALITY ASSURANCE/QUALITY CONTROL PROGRAM ..... | 8    |
| 6. RESULTS.....                                    | 9    |
| 7. FACILITY PROCESS DATA .....                     | 10   |
| APPENDIX 1     Data Tables                         |      |
| APPENDIX 2     Mercury Field Data Sheets           |      |
| APPENDIX 3     ORTECH Equipment Calibration Data   |      |
| APPENDIX 4     Mercury Analytical Report           |      |
| APPENDIX 5     Clean Harbors Process Data          |      |

## 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 March 9, 2017. 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 2600 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 ( $\mu\text{g}/\text{Rm}^3$ )* | 5.85    |
| Dry Adjusted Concentration ( $\mu\text{g}/\text{Rm}^3$ )** | 4.82    |

\* 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 23.1 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 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 March 9, 2017. The spike tubes from each test pair were spiked with increasing amounts of mercury, ranging from 100 ng to 2600 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. Stack gas was drawn through the traps and into the sampling probe and 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 approximately 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,  $R^2 \geq 0.99$ , 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  $\pm 10\%$  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  $\pm 10\%$  of the expected value.

Six unspiked mercury traps and six pre-spiked mercury traps were ordered approximately two weeks before the field testing program from Ohio Lumex. The pre-spiked mercury traps were spiked with known quantities of mercury ranging from 100 ng to 2600 ng in order to ensure that at least one of the traps met 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 2016. The pre-spiked mercury trap for Test No. 2 (250 ng) was used for spike recovery determination as the concentrations best fit the requirements of the QA/QC criteria (within  $\pm 50\%$  of the expected concentration). The concentration in the Test No. 2 spiked tube (250 ng) was 68% of the average mercury collected for Test No. 1, Test No. 2 and Test No. 3 (365.3 ng).

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 concentration for Test No. 2 fell within the spike range criterion stated in the test method. The spike recovery for Test No. 2 was 100.7%. US EPA Method 30B requires the spike recovery 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  $1 \mu\text{g}/\text{Rm}^3$  or  $\leq 20\%$  relative deviation for mercury concentrations less than  $1 \mu\text{g}/\text{Rm}^3$ . 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  $1 \mu\text{g}/\text{Rm}^3$ . The average dry adjusted mercury concentration ranged from a low of  $3.16 \mu\text{g}/\text{Rm}^3$  (Tube Pair No.4, not reported) to a high of  $5.11 \mu\text{g}/\text{Rm}^3$  for the six tests performed. The paired trap agreement was 1.4% for Test No. 1, 0.2% for Test No. 2, and 1.6% for Test No. 3.

## 6. RESULTS

Six mercury runs were collected during one day of sampling on March 9, 2017. 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 2600 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. 1, Test No. 2 and Test No. 3 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. 1, Test No. 2 and Test No. 3 are provided in Table 3. Mercury was detected in Section 1 of each trap in quantities greater than the method detection limit (1.1 ng) in all of the traps. Mercury was also collected in Section 2 in five of the six traps in quantities greater than or equal to the method detection limit. However, the amount detected in Section 2 was less than 0.5% 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  $1 \mu\text{g}/\text{Rm}^3$  or  $\leq 20\%$  of the total mercury collected should be collected in Section 2 for mercury concentrations less than  $1 \mu\text{g}/\text{Rm}^3$ .

Included in Table 2 are the mercury concentration calculations for Test No. 1, Test No. 2 and Test No. 3. 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.

Six unspiked mercury traps and six pre-spiked mercury traps were ordered approximately two weeks before the field testing program from Ohio Lumex. The pre-spiked mercury traps were spiked with known quantities of mercury ranging from 100 ng to 2600 ng in order to ensure that at least one of the traps met the spiking criterion stated in the test method. The pre-spiked mercury trap for Test No. 2 (250 ng) was used for spike recovery determination as the concentration best fit the requirements of the QA/QC criteria (within  $\pm 50\%$  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 1.4% for Test No. 1, 0.2% for Test No. 2, and 1.6% for Test No. 3. The mercury emission data from the total vapour phase mercury tests is provided below:

| Mercury Parameter                                  | Test 1 | Test 2 | Test 4 | Average |
|--|--------|--------|--------|---------|
| Dry Reference Conc. ( $\mu\text{g}/\text{Rm}^3$ )* | 6.22   | 5.65   | 5.67   | 5.85    |
| Dry Adjusted Conc. ( $\mu\text{g}/\text{Rm}^3$ **) | 5.11   | 4.66   | 4.70   | 4.82    |

\* 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  $\mu\text{g}/\text{Rm}^3$  adjusted to 11% oxygen. The mercury concentrations were below this limit during the test program.

The spiked mercury trap recovery calculation for Test No. 2 is shown in Table 3; the spike recovery for Test No. 2 was 100.7%. US EPA Method 30B requires the spike recovery 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 average powdered activated carbon (PAC) injection rate was 23.1 lb/hr.

**APPENDIX 1**

**Data Tables  
(2 pages)**

**Table 1: Mercury Test Schedule**

| Test Number | Test Date     | Sampling Period |        | Sampling Time |
|-------------|---------------|-----------------|--------|---------------|
|             |               | Start           | Finish | min           |
| 1           | March 9, 2017 | 9:27            | 10:27  | 60            |
| 2           | March 9, 2017 | 10:41           | 11:41  | 60            |
| 3           | March 9, 2017 | 11:53           | 12:53  | 60            |
| 4           | March 9, 2017 | 13:07           | 14:07  | 60            |
| 5           | March 9, 2017 | 14:20           | 15:20  | 60            |
| 6           | March 9, 2017 | 15:34           | 16:34  | 60            |

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

**Table 2: Mercury Emission Data**

| Test/Run No. | Tube ID | Mercury Collected |                 |             | Dry Gas Volume Sampled<br>Rm <sup>3*</sup> | Mercury Concentration                |                                      | Paired Trap Agreement<br>% |
|--------------|---------|-------------------|-----------------|-------------|--|--------------------------------------|--------------------------------------|----------------------------|
|              |         | Section 1<br>ng   | Section 2<br>ng | Total<br>ng |  | Dry Reference<br>µg/Rm <sup>3*</sup> | Dry Adjusted<br>µg/Rm <sup>3**</sup> |                            |
| 1            | A ***   | 394.6             | <1.1            | 396         | 0.0645                                     | 6.13                                 | 5.04                                 | -                          |
|              | B       | 371.5             | 1.8             | 373         | 0.0592                                     | 6.31                                 | 5.19                                 | -                          |
|              | Average |                   |                 |             |  | 6.22                                 | 5.11                                 | 1.4                        |
| 2            | A       | 362.9             | 1.4             | 364         | 0.0646                                     | 5.64                                 | 4.65                                 | -                          |
|              | B ***   | 348.3             | 2.3             | 351         | 0.0619                                     | 5.66                                 | 4.67                                 | -                          |
|              | Average |                   |                 |             |  | 5.65                                 | 4.66                                 | 0.2                        |
| 3            | A       | 356.5             | 1.1             | 358         | 0.0641                                     | 5.58                                 | 4.62                                 | -                          |
|              | B***    | 348.2             | 2.3             | 351         | 0.0609                                     | 5.76                                 | 4.77                                 | -                          |
|              | Average |                   |                 |             |  | 5.67                                 | 4.70                                 | 1.6                        |
| Average      |         |                   |                 | 365         |  | 5.85                                 | 4.82                                 |                            |

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

\* At 25°C and 1 atmosphere

\*\* At 25°C and 1 atmosphere, adjusted to 11% oxygen

\*\*\* Spiked tube, mercury collected corrected for the original spike (100 ng for Test No. 1, 250 ng for Test No. 2, 500 ng for Test No. 3).

**Table 3: Mercury Spike Tube Recovery**

| Test No. | Total Collected | Spike Tube Volume Sampled | Mercury Concentration | Total Collected | Unspike Tube Volume Sampled | Mercury Concentration | Spike Concentration | Spike Recovery |
|----------|-----------------|---------------------------|-----------------------|-----------------|-----------------------------|-----------------------|---------------------|----------------|
|          | ng              | Rm <sup>3*</sup>          | ng/Rm <sup>3*</sup>   | ng              | Rm <sup>3*</sup>            | ng/Rm <sup>3*</sup>   | ng/Rm <sup>3*</sup> | %              |
| 1        | 496             | 0.0645                    | 7682                  | 373.3           | 0.0592                      | 6307                  | 1375                | NA             |
| 2        | 601             | 0.0619                    | 9700                  | 364.3           | 0.0646                      | 5635                  | 4065                | 100.7          |
| 3        | 851             | 0.0641                    | 13264                 | 357.6           | 0.0609                      | 5874                  | 7390                | NA             |
| Average  |                 |                           |                       |                 |                             |                       |                     | 100.7          |

Note: The spike tubes were spiked with mercury by the analytical laboratory prior to sampling. The original spike concentrations were 100 ng for Test No. 1, 250 ng for Test No. 2 and 500 ng for Test No. 3.

"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<br>(tube pair field ID) | DGMCF | Initial DGM<br>Reading<br>(L) | Final DGM<br>Reading<br>(L) | Actual Vol.<br>Sampled<br>(L) | Barometric<br>Pressure<br>(in Hg) | Average DGM<br>Pressure<br>del H (in H <sub>2</sub> O) | Average DGM<br>Temperature<br>(°C) | Corrected<br>Volume<br>(L)* | Corrected<br>Volume<br>(Rm <sup>3</sup> )* |
|---------------------------------------|-------|-------------------------------|-----------------------------|-------------------------------|-----------------------------------|--|------------------------------------|-----------------------------|--|
| T1A OL376102 Spiked                   | 1.021 | 1.40                          | 62.80                       | 61.40                         | 29.5                              | 0.9  | 13.1                               | 64.52                       | 0.0645                                     |
| T1B OLC033962                         | 1.001 | 70.10                         | 126.70                      | 56.60                         | 29.5                              | 1.5  | 9.3                                | 59.19                       | 0.0592                                     |
| T2A OLC033918                         | 1.021 | 64.40                         | 127.40                      | 63.00                         | 29.5                              | 0.9  | 20.1                               | 64.65                       | 0.0646                                     |
| T2B OLC331424 Spiked                  | 1.001 | 28.40                         | 88.70                       | 60.30                         | 29.5                              | 1.5  | 14.6                               | 61.92                       | 0.0619                                     |
| T3A OLC033947                         | 1.021 | 28.60                         | 91.30                       | 62.70                         | 29.5                              | 0.9  | 20.9                               | 64.12                       | 0.0641                                     |
| T3B OL313733 Spiked                   | 1.001 | 90.30                         | 150.00                      | 59.70                         | 29.5                              | 1.5  | 16.4                               | 60.88                       | 0.0609                                     |
| T4A OL331361 Spiked                   | 1.021 | 92.60                         | 151.00                      | 58.40                         | 29.5                              | 0.9  | 18.1                               | 60.26                       | 0.0603                                     |
| T4B OLC033931                         | 1.001 | 52.20                         | 114.30                      | 62.10                         | 29.5                              | 1.5  | 12.0                               | 64.26                       | 0.0643                                     |
| T5A OLC033567                         | 1.021 | 53.00                         | 110.40                      | 57.40                         | 29.5                              | 0.9  | 17.5                               | 59.31                       | 0.0593                                     |
| T5B OL338693 Spiked                   | 1.001 | 17.00                         | 72.40                       | 55.40                         | 29.5                              | 1.5  | 13.5                               | 56.99                       | 0.0570                                     |
| T6A OL331398 Spiked                   | 1.021 | 12.20                         | 71.40                       | 59.20                         | 29.5                              | 0.9  | 14.0                               | 61.91                       | 0.0619                                     |
| T6B OLC033938                         | 1.001 | 83.20                         | 140.10                      | 56.90                         | 29.5                              | 1.5  | 13.5                               | 58.53                       | 0.0585                                     |

\* dry at 25°C and 1 atmosphere

# ORTECH Environmental Mercury Tube Data Sheet

|                 |                  |
|-----------------|------------------|
| Plant:          | Clean Harbors    |
| Plant Location: | Corunna, Ontario |
| Test No.:       | 1                |

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | MARCH 9, 2017   |
| Project No.:   | 21742           |

**Train A**

|                      |          |        |                                      |                          |
|----------------------|----------|--------|--------------------------------------|--------------------------|
| Tube Identification: | 0L376102 | Spiked | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Spike Concentration  | 100      | ng     |                                      |                          |

|                  |          |
|------------------|----------|
| Measuring Device | MII      |
| Control Module   | A11542   |
| Barometer        | ENV. CAN |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.50 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>$\Delta H$<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 1.4                |                   | 3                  | 0.9  | 3                        |
| 5          | 6.5                |                   | 8                  | 0.9  | 8                        |
| 10         | 11.9               |                   | 10                 | 0.9  | 9                        |
| 15         | 17.2               |                   | 11                 | 0.9  | 10                       |
| 20         | 22.3               |                   | 12                 | 0.9  | 10                       |
| 25         | 27.4               |                   | 13                 | 0.9  | 10                       |
| 30         | 32.5               |                   | 14                 | 0.9  | 10                       |
| 35         | 37.6               |                   | 15                 | 0.9  | 10                       |
| 40         | 42.7               |                   | 16                 | 0.9  | 10                       |
| 45         | 47.8               |                   | 17                 | 0.9  | 10                       |
| 50         | 52.9               |                   | 17                 | 0.9  | 10                       |
| 55         | 57.8               |                   | 17                 | 0.9  | 10                       |
| 60         | 62.8               |                   | 17                 | 0.9  | 10                       |

|              |       |                    |                  |                          |       |
|--------------|-------|--------------------|------------------|--------------------------|-------|
| Start Time:  | 9:27  | Initial Leak Check | <.01 Lpm@ 22" Hg | DGMCF:                   | 1.021 |
| Finish Time: | 10:27 | Final Leak Check   | <.01 Lpm@ 15" Hg | Sample Volume:           | 61.4  |
|              |       |                    |                  | Average DGM Temp:        | 13.1  |
|              |       |                    |                  | Average DGM $\Delta H$ : | 0.9   |

**Train B**

|                      |           |        |                           |                                     |
|----------------------|-----------|--------|---------------------------|-------------------------------------|
| Tube Identification: | 0LC033962 | Spiked | <input type="radio"/> Yes | <input checked="" type="radio"/> No |
| Spike Concentration  | —         | ng     |                           |                                     |

|                  |           |
|------------------|-----------|
| Measuring Device | MII       |
| Control Module   | ENV 200FB |

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>$\Delta H$<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 70.1               |                   | 4                  | 1.5  | 3                        |
| 5          | 75.0               |                   | 6                  | 1.5  | 8                        |
| 10         | 79.7               |                   | 7                  | 1.5  | 9                        |
| 15         | 84.2               |                   | 7                  | 1.5  | 9                        |
| 20         | 88.7               |                   | 8                  | 1.5  | 9                        |
| 25         | 93.2               |                   | 8                  | 1.5  | 9                        |
| 30         | 97.7               |                   | 9                  | 1.5  | 9                        |
| 35         | 102.2              |                   | 10                 | 1.5  | 9                        |
| 40         | 106.7              |                   | 11                 | 1.5  | 9                        |
| 45         | 111.2              |                   | 12                 | 1.5  | 9                        |
| 50         | 115.7              |                   | 13                 | 1.5  | 9                        |
| 55         | 120.2              |                   | 13                 | 1.5  | 9                        |
| 60         | 126.7              |                   | 13                 | 1.5  | 9                        |

|              |       |                    |                  |                          |       |
|--------------|-------|--------------------|------------------|--------------------------|-------|
| Start Time:  | 9:29  | Initial Leak Check | <.01 Lpm@ 24" Hg | DGMCF:                   | 1.001 |
| Finish Time: | 10:27 | Final Leak Check   | <.01 Lpm@ 15" Hg | Sample Volume:           | 56.6  |
|              |       |                    |                  | Average DGM Temp:        | 9.3   |
|              |       |                    |                  | Average DGM $\Delta H$ : | 1.5   |

|           |          |
|-----------|----------|
| Operator: | D. J. W. |
|-----------|----------|



## ORTECH Environmental Mercury Tube Data Sheet

|                 |                  |
|-----------------|------------------|
| Plant:          | Clean Harbors    |
| Plant Location: | Corunna, Ontario |
| Test No.:       | 2                |

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | MARCH 9 2017    |
| Project No.:   | 21742           |

Train A

|                      |           |        |     |    |
|----------------------|-----------|--------|-----|----|
| Tube Identification: | 0LC033918 | Spiked | Yes | No |
| Spike Concentration  |           | ng     |     |    |

|                  |         |
|------------------|---------|
| Measuring Device | MII     |
| Control Module   | A11512  |
| Barometer        | ENV CAN |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.51 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>$\Delta H$<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 64.4               |                   | 13                 | 0.9  | 5                        |
| 5          | 69.2               |                   | 16                 | 0.9  | 9.5                      |
| 10         | 74.6               |                   | 17                 | 0.9  | 10.5                     |
| 15         | 79.8               |                   | 18                 | 0.9  | 11                       |
| 20         | 84.9               |                   | 19                 | 0.9  | 12                       |
| 25         | 90.3               |                   | 20                 | 0.9  | 12                       |
| 30         | 95.7               |                   | 21                 | 0.9  | 12                       |
| 35         | 100.9              |                   | 22                 | 0.9  | 12                       |
| 40         | 106.3              |                   | 23                 | 0.9  | 12                       |
| 45         | 111.6              |                   | 23                 | 0.9  | 12                       |
| 50         | 116.9              |                   | 23                 | 0.9  | 12                       |
| 55         | 122.2              |                   | 23                 | 0.9  | 12                       |
| 60         | 127.4              |                   | 23                 | 0.9  | 12                       |

|              |      |                    |                  |                          |       |
|--------------|------|--------------------|------------------|--------------------------|-------|
| Start Time:  | 1041 | Initial Leak Check | 2.01 Lpm@ 15 "Hg | DGMCF:                   | 1.021 |
| Finish Time: | 1141 | Final Leak Check   | 2.01 Lpm@ 16 "Hg | Sample Volume:           | 63.0  |
|              |      |                    |                  | Average DGM Temp:        | 20.1  |
|              |      |                    |                  | Average DGM $\Delta H$ : | 0.9   |

Train B

|                      |          |        |     |    |
|----------------------|----------|--------|-----|----|
| Tube Identification: | 0L331424 | Spiked | Yes | No |
| Spike Concentration  | 250      | ng     |     |    |

|                  |          |
|------------------|----------|
| Measuring Device | MII      |
| Control Module   | COE 2015 |

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>$\Delta H$<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 28.4               |                   | 12                 | 1.5  | 5                        |
| 5          | 33.7               |                   | 12                 | 1.5  | 9                        |
| 10         | 38.9               |                   | 12                 | 1.5  | 9                        |
| 15         | 43.9               |                   | 13                 | 1.5  | 10                       |
| 20         | 48.9               |                   | 14                 | 1.5  | 10                       |
| 25         | 53.8               |                   | 15                 | 1.5  | 10                       |
| 30         | 58.8               |                   | 16                 | 1.5  | 10                       |
| 35         | 63.8               |                   | 16                 | 1.5  | 10                       |
| 40         | 68.7               |                   | 16                 | 1.5  | 10                       |
| 45         | 73.8               |                   | 16                 | 1.5  | 10                       |
| 50         | 78.7               |                   | 16                 | 1.5  | 10                       |
| 55         | 83.7               |                   | 16                 | 1.5  | 10                       |
| 60         | 88.7               |                   | 16                 | 1.5  | 10                       |

|              |      |                    |                  |                          |       |
|--------------|------|--------------------|------------------|--------------------------|-------|
| Start Time:  | 1041 | Initial Leak Check | 2.01 Lpm@ 15 "Hg | DGMCF:                   | 1.001 |
| Finish Time: | 1141 | Final Leak Check   | 2.01 Lpm@ 15 "Hg | Sample Volume:           | 60.3  |
|              |      |                    |                  | Average DGM Temp:        | 14.6  |
|              |      |                    |                  | Average DGM $\Delta H$ : | 1.5   |

|           |          |
|-----------|----------|
| Operator: | D. J. W. |
|-----------|----------|

# ORTECH Environmental Mercury Tube Data Sheet

|                 |                  |
|-----------------|------------------|
| Plant:          | Clean Harbors    |
| Plant Location: | Corunna, Ontario |
| Test No.:       | 3                |

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breeching |
| Date:          | MARCH 9, 2017   |
| Project No.:   | 21742           |

Train A

|                      |           |        |     |    |
|----------------------|-----------|--------|-----|----|
| Tube Identification: | OLC033947 | Spiked | Yes | No |
| Spike Concentration  |           | ng     |     |    |

|                  |         |
|------------------|---------|
| Measuring Device | MII     |
| Control Module   | A11542  |
| Barometer        | ENV-CAN |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.49 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>$\Delta H$<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|---|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |   |                          |
| 0          | 28.6               |                   | 19                 | 0.9   | 5                        |
| 5          | 29.7               |                   | 21                 |   | 9                        |
| 10         | 30.9               |                   | 21                 |   | 10                       |
| 15         | 30.9               |                   | 21                 |   | 13                       |
| 20         | 45.3               |                   | 21                 |   | 14                       |
| 25         | 50.5               |                   | 21                 |   | 14                       |
| 30         | 55.7               |                   | 21                 |   | 14                       |
| 35         | 60.9               |                   | 21                 |   | 14                       |
| 40         | 66.1               |                   | 21                 |   | 14                       |
| 45         | 71.3               |                   | 21                 |   | 14                       |
| 50         | 76.5               |                   | 21                 |   | 14                       |
| 55         | 81.7               | 86.9              | 22                 |   | 14                       |
| 60         | 91.3               |                   | 21                 |   | 14                       |

|              |       |                    |                   |                          |       |
|--------------|-------|--------------------|-------------------|--------------------------|-------|
| Start Time:  | 11:53 | Initial Leak Check | 2.01 Lpm @ 16" Hg | DGMCF:                   | 1.021 |
| Finish Time: | 12:53 | Final Leak Check   | 2.01 Lpm @ 16" Hg | Sample Volume:           | 62.7  |
|              |       |                    |                   | Average DGM Temp:        | 20.9  |
|              |       |                    |                   | Average DGM $\Delta H$ : | 0.9   |

5.2 1.05

Train B

|                      |          |        |     |    |
|----------------------|----------|--------|-----|----|
| Tube Identification: | OL313733 | Spiked | Yes | No |
| Spike Concentration  | 500      | ng     |     |    |

|                  |          |
|------------------|----------|
| Measuring Device | MII      |
| Control Module   | COE20019 |

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>$\Delta H$<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|---|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |   |                          |
| 0          | 90.3               |                   | 16                 | 1.5   | 5                        |
| 5          | 95.3               |                   | 16                 |   | 10                       |
| 10         | 100.3              |                   | 16                 |   | 12                       |
| 15         | 105.2              |                   | 16                 |   | 13                       |
| 20         | 110.2              |                   | 16                 |   | 13                       |
| 25         | 115.2              |                   | 16                 |   | 13                       |
| 30         | 120.2              |                   | 16                 |   | 13                       |
| 35         | 125.1              |                   | 16                 |   | 13                       |
| 40         | 130.1              |                   | 16                 |   | 13                       |
| 45         | 135.1              |                   | 16                 |   | 13                       |
| 50         | 140.0              |                   | 16                 |   | 13                       |
| 55         | 145.0              |                   | 16                 |   | 13                       |
| 60         | 150.0              |                   | 16                 |   | 13                       |

|              |       |                    |                   |                          |       |
|--------------|-------|--------------------|-------------------|--------------------------|-------|
| Start Time:  | 11:53 | Initial Leak Check | 2.01 Lpm @ 15" Hg | DGMCF:                   | 1.001 |
| Finish Time: | 12:53 | Final Leak Check   | 2.01 Lpm @ 16" Hg | Sample Volume:           | 39.7  |
|              |       |                    |                   | Average DGM Temp:        | 16.4  |
|              |       |                    |                   | Average DGM $\Delta H$ : | 1.5   |

|           |          |
|-----------|----------|
| Operator: | D. J. W. |
|-----------|----------|

# ORTECH Environmental Mercury Tube Data Sheet

|                 |                  |
|-----------------|------------------|
| Plant:          | Clean Haboris    |
| Plant Location: | Corunna, Ontario |
| Test No.:       | 4                |

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breeching |
| Date:          | MARCH 9 2017    |
| Project No.:   | 21742           |

**Train A**

|                      |          |        |                                      |                          |
|----------------------|----------|--------|--------------------------------------|--------------------------|
| Tube Identification: | 0L331361 | Spiked | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Spike Concentration  | 300      | ng     |                                      |                          |

|                  |        |
|------------------|--------|
| Measuring Device | MII    |
| Control Module   | A11542 |
| Barometer        |        |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.47 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 92.6               |                   | 16                 | 0.9  | 4                        |
| 5          | 97.5               |                   | 16                 |  | 4                        |
| 10         | 102.9              |                   | 17                 |  | 10                       |
| 15         | 107.3              |                   | 17                 |  | 10                       |
| 20         | 112.2              |                   | 18                 |  | 10                       |
| 25         | 117.1              |                   | 18                 |  | 10                       |
| 30         | 122.1              |                   | 19                 |  | 10                       |
| 35         | 126.9              |                   | 19                 |  | 10                       |
| 40         | 131.9              |                   | 19                 |  | 10                       |
| 45         | 136.7              |                   | 19                 |  | 10                       |
| 50         | 141.6              |                   | 19                 |  | 10                       |
| 55         | 146.5              |                   | 19                 |  | 10                       |
| 60         | 151.0              |                   | 19                 |  | 10                       |

|              |      |                    |                  |                   |       |
|--------------|------|--------------------|------------------|-------------------|-------|
| Start Time:  | 1307 | Initial Leak Check | 2.01 Lpm@ 15" Hg | DGMCF:            | 1.021 |
| Finish Time: | 1407 | Final Leak Check   | 2.01 Lpm@ 15" Hg | Sample Volume:    | 584   |
|              |      |                    |                  | Average DGM Temp: | 18.1  |
|              |      |                    |                  | Average DGM Δ H:  | 0.9   |

**Train B**

|                      |           |        |                           |                                     |
|----------------------|-----------|--------|---------------------------|-------------------------------------|
| Tube Identification: | 0LC033931 | Spiked | <input type="radio"/> Yes | <input checked="" type="radio"/> No |
| Spike Concentration  |           | ng     |                           |                                     |

|                  |            |
|------------------|------------|
| Measuring Device | MII        |
| Control Module   | COE 200198 |

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 52.2               |                   | 12                 | 1.5  | 4                        |
| 5          | 57.4               |                   | 12                 |  | 3                        |
| 10         | 62.6               |                   | 12                 |  | 13                       |
| 15         | 67.7               |                   | 12                 |  | 13                       |
| 20         | 72.9               |                   | 12                 |  | 13                       |
| 25         | 78.1               |                   | 12                 |  | 13                       |
| 30         | 83.2               |                   | 12                 |  | 13                       |
| 35         | 88.4               |                   | 12                 |  | 13                       |
| 40         | 93.6               |                   | 12                 |  | 13                       |
| 45         | 98.8               |                   | 12                 |  | 13                       |
| 50         | 103.9              |                   | 12                 |  | 13                       |
| 55         | 109.1              |                   | 12                 |  | 13                       |
| 60         | 114.3              |                   | 12                 |  | 13                       |

|              |          |                    |                  |                   |       |
|--------------|----------|--------------------|------------------|-------------------|-------|
| Start Time:  | 1307     | Initial Leak Check | 2.01 Lpm@ 16" Hg | DGMCF:            | 1.001 |
| Finish Time: | 1407     | Final Leak Check   | 2.01 Lpm@ 15" Hg | Sample Volume:    | 62.1  |
|              |          |                    |                  | Average DGM Temp: | 12    |
|              |          |                    |                  | Average DGM Δ H:  | 1.5   |
| Operator:    | D. J. W. |                    |                  |                   |       |

# ORTECH Environmental Mercury Tube Data Sheet

|                 |                  |
|-----------------|------------------|
| Plant:          | Clean Habor      |
| Plant Location: | Corunna, Ontario |
| Test No.:       | 5                |

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | MARCH 9 2017    |
| Project No.:   | 21742           |

Train A

|                      |           |        |     |    |
|----------------------|-----------|--------|-----|----|
| Tube Identification: | 0LC033561 | Spiked | Yes | No |
| Spike Concentration  |           | ng     |     |    |

|                  |         |
|------------------|---------|
| Measuring Device | MII     |
| Control Module   | A11542  |
| Barometer        | ENV CAN |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.45 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 53.0               |                   | 13                 | 0.9  | 4                        |
| 5          | 57.8               |                   | 14                 |  | 7                        |
| 10         | 62.6               |                   | 15                 |  | 10                       |
| 15         | 67.3               |                   | 16                 |  | 12                       |
| 20         | 72.1               |                   | 17                 |  | 14                       |
| 25         | 76.9               |                   | 19                 |  | 14                       |
| 30         | 81.7               |                   | 19                 |  | 14                       |
| 35         | 86.5               |                   | 19                 |  | 14                       |
| 40         | 91.3               |                   | 19                 |  | 14                       |
| 45         | 96.0               |                   | 19                 |  | 14                       |
| 50         | 100.8              |                   | 19                 |  | 14                       |
| 55         | 105.6              |                   | 19                 |  | 14                       |
| 60         | 110.4              |                   | 19                 |  | 14                       |

|              |      |                    |                 |                   |       |
|--------------|------|--------------------|-----------------|-------------------|-------|
| Start Time:  | 1420 | Initial Leak Check | 2.9 Lpm@ 15" Hg | DGMCF:            | 1.021 |
| Finish Time: | 1520 | Final Leak Check   | 2.0 Lpm@ 15" Hg | Sample Volume:    | 57.4  |
|              |      |                    |                 | Average DGM Temp: | 17.5  |
|              |      |                    |                 | Average DGM Δ H:  | 0.9   |

Train B

|                      |          |        |     |    |
|----------------------|----------|--------|-----|----|
| Tube Identification: | 0L338693 | Spiked | Yes | No |
| Spike Concentration  | 1400     | ng     |     |    |

|                  |          |
|------------------|----------|
| Measuring Device | MII      |
| Control Module   | COE 2019 |

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>Δ H<br>"H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 17.0               |                   | 11                 | 1.5  | 4                        |
| 5          | 21.6               |                   | 12                 |  | 7                        |
| 10         | 26.2               |                   | 13                 |  | 10                       |
| 15         | 30.8               |                   | 14                 |  | 12                       |
| 20         | 35.5               |                   | 14                 |  | 14                       |
| 25         | 40.1               |                   | 14                 |  | 14                       |
| 30         | 44.7               |                   | 14                 |  | 15                       |
| 35         | 49.3               |                   | 14                 |  | 15                       |
| 40         | 53.9               |                   | 14                 |  | 15                       |
| 45         | 58.5               |                   | 14                 |  | 15                       |
| 50         | 63.2               |                   | 14                 |  | 15                       |
| 55         | 67.8               |                   | 14                 |  | 15                       |
| 60         | 72.4               |                   | 14                 |  | 16                       |

|              |      |                    |                  |                   |       |
|--------------|------|--------------------|------------------|-------------------|-------|
| Start Time:  | 1420 | Initial Leak Check | 2.01 Lpm@ 15" Hg | DGMCF:            | 1.001 |
| Finish Time: | 1520 | Final Leak Check   | 2.01 Lpm@ 15" Hg | Sample Volume:    | 55.4  |
|              |      |                    |                  | Average DGM Temp: | 13.5  |
|              |      |                    |                  | Average DGM Δ H:  | 1.3   |

|           |                   |
|-----------|-------------------|
| Operator: | D. J. [Signature] |
|-----------|-------------------|

# ORTECH Environmental Mercury Tube Data Sheet

|                 |                  |
|-----------------|------------------|
| Plant:          | Clean Habors     |
| Plant Location: | Corunna, Ontario |
| Test No.:       | 6                |

|                |                 |
|----------------|-----------------|
| Test location: | Stack Breaching |
| Date:          | MARCH 9, 2017   |
| Project No.:   | 21742           |

Train A

|                      |           |        |                                      |                          |
|----------------------|-----------|--------|--------------------------------------|--------------------------|
| Tube Identification: | 0L3313998 | Spiked | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| Spike Concentration  | 2600      | ng     |                                      |                          |

|                  |         |
|------------------|---------|
| Measuring Device | MII     |
| Control Module   | A11542  |
| Barometer        | ENV-CAN |

|                     |       |
|---------------------|-------|
| Barometric Pressure | 29.45 |
|---------------------|-------|

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>$\Delta H$<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 12.2               |                   | 14                 | 0.9  | 4                        |
| 5          | 17.1               |                   | 14                 |  | 7                        |
| 10         | 22.1               |                   | 14                 |  | 9                        |
| 15         | 26.9               |                   | 14                 |  | 10                       |
| 20         | 31.9               |                   | 14                 |  | 12                       |
| 25         | 36.9               |                   | 14                 |  | 12                       |
| 30         | 41.3               |                   | 14                 |  | 12                       |
| 35         | 46.1               |                   | 14                 |  | 12                       |
| 40         | 51.6               |                   | 14                 |  | 12                       |
| 45         | 56.6               |                   | 14                 |  | 12                       |
| 50         | 61.5               |                   | 14                 |  | 12                       |
| 55         | 66.5               |                   | 14                 |  | 12                       |
| 60         | 71.4               |                   | 14                 |  | 12                       |

|              |       |                    |                  |                          |       |
|--------------|-------|--------------------|------------------|--------------------------|-------|
| Start Time:  | 15 34 | Initial Leak Check | 2.01 Lpm@ 15" Hg | DGMCF:                   | 1.021 |
| Finish Time: | 16 34 | Final Leak Check   | 2.01 Lpm@ 15" Hg | Sample Volume:           | 59.2  |
|              |       |                    |                  | Average DGM Temp:        | 14.0  |
|              |       |                    |                  | Average DGM $\Delta H$ : | 0.9   |

Train B

|                      |            |        |                           |                                     |
|----------------------|------------|--------|---------------------------|-------------------------------------|
| Tube Identification: | 0LC0391338 | Spiked | <input type="radio"/> Yes | <input checked="" type="radio"/> No |
| Spike Concentration  | -          | ng     |                           |                                     |

|                  |          |
|------------------|----------|
| Measuring Device | MII      |
| Control Module   | CVE 2019 |

| Clock Time | Dry Gas Meter<br>L | Meter Temperature |                    | Meter Pressure<br>$\Delta H$<br>H <sub>2</sub> O | Pump Vacuum<br>"Hg Gauge |
|------------|--------------------|-------------------|--------------------|--|--------------------------|
|            |                    | Outlet<br>°C      | Inlet<br>AVG<br>°C |  |                          |
| 0          | 83.2               |                   | 13                 | 1.5  | 5                        |
| 5          | 87.9               |                   | 13                 |  | 7                        |
| 10         | 92.7               |                   | 13                 |  | 8                        |
| 15         | 97.4               |                   | 13                 |  | 10                       |
| 20         | 102.2              |                   | 13                 |  | 10                       |
| 25         | 106.9              |                   | 13                 |  | 10                       |
| 30         | 111.6              |                   | 14                 |  | 10                       |
| 35         | 116.4              |                   | 14                 |  | 10                       |
| 40         | 121.1              |                   | 14                 |  | 10                       |
| 45         | 125.9              |                   | 14                 |  | 10                       |
| 50         | 130.6              |                   | 14                 |  | 10                       |
| 55         | 135.4              |                   | 14                 |  | 10                       |
| 60         | 140.1              |                   | 14                 |  | 10                       |

|              |       |                    |                  |                          |       |
|--------------|-------|--------------------|------------------|--------------------------|-------|
| Start Time:  | 15 34 | Initial Leak Check | 2.01 Lpm@ 15" Hg | DGMCF:                   | 1.001 |
| Finish Time: | 16 34 | Final Leak Check   | 2.01 Lpm@ 15" Hg | Sample Volume:           | 56.9  |
|              |       |                    |                  | Average DGM Temp:        | 13.5  |
|              |       |                    |                  | Average DGM $\Delta H$ : | 1.5   |

|           |     |
|-----------|-----|
| Operator: | DOL |
|-----------|-----|

### **APPENDIX 3**

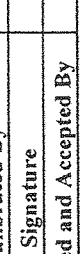
#### **ORTECH Equipment Calibration Data (4 pages)**

# ORTECH Environmental

Dry Gas Meter Calibration Data

|                       |                   |
|-----------------------|-------------------|
| Calibration Procedure | 03-J004           |
| Meter Number          | Vost 4            |
| Date                  | December 12, 2016 |
| Barometric Pressure   | 29.50             |
| System Leak Check     | 0.01 lpm @ 22 "Hg |

|           |             |
|-----------|-------------|
|           | MII NUMBERS |
| DGM       | A11542      |
| Gasometer | A01463      |
| Barometer | COE 20028   |

|                          |   |
|--------------------------|---|
| Calibrated By            | Andrew Saikaley   |
| Signature                |  |
| Reviewed and Accepted By |  |

$ft^3 = cm^3 \times 1.332$  litres per cm<sup>3</sup>/28.3168 litres per ft<sup>3</sup>

$DGMCF = \frac{V_{std} ft^3}{V_{dgm} ft^3} \times \frac{T_{dgm} \text{ } ^\circ F + 460}{T_{std} \text{ } ^\circ F + 460} \times \frac{P_{bar} \text{ (in. Hg)}}{(P_{bar} \text{ in. Hg} + DGM \text{ Pressure}/13.6)}$

| Gasometer Reading |       | Gasometer Volume |                 | Gasometer Temperature |      | DGM Reading |         | DGM Volume |                 | DGM Average Temperature |      | DGM Pressure         |                      | DGM Outlet |        | DGM Calibration |     | Flow Rate |  |
|-------------------|-------|------------------|-----------------|-----------------------|------|-------------|---------|------------|-----------------|-------------------------|------|----------------------|----------------------|------------|--------|-----------------|-----|-----------|--|
| Initial           | Final | cm               | ft <sup>3</sup> | °C                    | °C   | Initial     | Final   | L          | ft <sup>3</sup> | °C                      | °C   | in. H <sub>2</sub> O | in. H <sub>2</sub> O | °C         | Factor | min.            | lpm |           |  |
| 82.10             | 45.60 | 36.50            | 1.717           | 22.0                  | 22.0 | 2744.14     | 2793.43 | 1.741      | 1.741           | 34.0                    | 34.0 | 2.3                  | 2.3                  | 34.0       | 1.021  | 25              | 2.0 |           |  |
| 81.90             | 46.40 | 35.50            | 1.670           | 22.0                  | 22.0 | 2793.43     | 2842.54 | 1.734      | 1.734           | 37.0                    | 37.0 | 2.3                  | 2.3                  | 37.0       | 1.006  | 25              | 2.0 |           |  |
| 83.40             | 46.00 | 37.40            | 1.759           | 22.0                  | 22.0 | 2842.54     | 2894.58 | 1.838      | 1.838           | 41.0                    | 41.0 | 2.3                  | 2.3                  | 41.0       | 1.013  | 25              | 2.1 |           |  |
| 64.60             | 45.80 | 18.80            | 0.884           | 23.0                  | 23.0 | 3002.38     | 3028.54 | 0.924      | 0.924           | 40.0                    | 40.0 | 0.9                  | 0.9                  | 40.0       | 1.010  | 25              | 1.0 |           |  |
| 60.90             | 40.90 | 20.00            | 0.941           | 23.0                  | 23.0 | 2923.75     | 2950.50 | 0.945      | 0.945           | 33.0                    | 33.0 | 0.9                  | 0.9                  | 33.0       | 1.027  | 25              | 1.1 |           |  |
| 40.90             | 21.80 | 19.10            | 0.898           | 23.0                  | 23.0 | 2950.50     | 2976.46 | 0.917      | 0.917           | 38.0                    | 38.0 | 0.9                  | 0.9                  | 38.0       | 1.027  | 25              | 1.0 |           |  |
| 54.50             | 48.90 | 5.60             | 0.263           | 23.0                  | 23.0 | 3071.16     | 3078.95 | 0.275      | 0.275           | 43.0                    | 43.0 | 0.6                  | 0.6                  | 43.0       | 1.021  | 25              | 0.3 |           |  |
| 70.80             | 60.80 | 10.00            | 0.470           | 23.0                  | 23.0 | 3048.52     | 3062.51 | 0.494      | 0.494           | 43.0                    | 43.0 | 0.5                  | 0.5                  | 43.0       | 1.015  | 25              | 0.6 |           |  |
| 48.90             | 40.70 | 8.20             | 0.386           | 23.0                  | 23.0 | 3078.95     | 3090.30 | 0.401      | 0.401           | 43.0                    | 43.0 | 0.5                  | 0.5                  | 43.0       | 1.026  | 25              | 0.5 |           |  |

**DGMCF AVERAGE**  
 2Lpm 1.013  
 1Lpm 1.021  
 0.5Lpm 1.021

**Acceptance Criteria:**  
 Individual values of DGM calibration factor must be within  $\pm 1.5\%$  of the average value.  
 If not the calibration must be repeated. Also, the DGMCF average value must be  $1.00 \pm 0.05$ , 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                     | December 12, 2016      |
| Calibrated By            | Andrew Saikaley        |
| Signature                | <i>Andrew Saikaley</i> |
| Reviewed and Accepted By | <i>Angela Nolan</i>    |

| Fluke Calibrator Output<br>(COE 20024)<br>(°C) | Trendicator Display Value |                          | Percent<br>Difference<br>(%) |
|--|---------------------------|--------------------------|------------------------------|
|  | Before Adjustment<br>(°C) | After Adjustment<br>(°C) |                              |
| 0  | 0                         | NA                       | 0.0                          |
| 20   | 20                        |                          | 0.0                          |
| 50   | 50                        |                          | 0.0                          |
| 100  | 100                       |                          | 0.0                          |
| 150  | 151                       |                          | -0.7                         |
| 200  | 200                       |                          | 0.0                          |
| 300  | 300                       |                          | 0.0                          |
| 400  | 401                       |                          | -0.3                         |
| 500  | 501                       |                          | -0.2                         |
| 600  | 602                       |                          | -0.3                         |

$$\% \text{ Difference} = \frac{(\text{micromite} - \text{after adjustment reading}) \times 100}{\text{micromite}}$$

**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 | 03-J004              |
| Meter Number          | Vost 5               |
| Date                  | February 16, 2017    |
| Barometric Pressure   | 29.35                |
| System Leak Check     | <0.01 lpm @ 23.5 "Hg |

| MI NUMBERS               |   |
|--------------------------|---|
| DGM                      | COE 20018   |
| Gasometer                | A01463  |
| Barometer                | COE 20028   |
|                          |   |
| Calibrated By            | David Utley   |
| Signature                |  |
| Reviewed and Accepted By |   |

$\text{ft}^3 = \text{cm}^3 \times 1.332 \text{ litres per cm}^3 / 28.3168 \text{ litres per ft}^3$

$$\text{DGMCF} = \frac{V_{\text{std}} \text{ ft}^3}{V_{\text{dgm}} \text{ ft}^3} \times \frac{T_{\text{dgm}} \text{ } ^\circ\text{F} + 460}{T_{\text{std}} \text{ } ^\circ\text{F} + 460} \times \frac{\text{Pbar (in. Hg)}}{\text{(Pbar in. Hg} + \text{DGM Pressure/13.6)}}$$


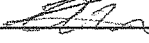
| Gasometer Reading |       | Gasometer Volume<br>$\text{ft}^3$ | Gasometer Temperature<br>$^\circ\text{C}$ | DGM Reading |        | DGM Volume<br>$\text{ft}^3$ | DGM Average Temperature<br>$^\circ\text{C}$ | DGM Pressure<br>in. H <sub>2</sub> O | DGM Outlet<br>$^\circ\text{C}$ | DGM Calibration<br>Factor | Time<br>min. | Flow<br>Rate<br>lpm |
|-------------------|-------|-----------------------------------|---|-------------|--------|-----------------------------|---|--------------------------------------|--------------------------------|---------------------------|--------------|---------------------|
| Initial           | Final |                                   |   | Initial     | Final  |                             |   |                                      |                                |                           |              |                     |
| 60.90             | 35.60 | 1.190                             | 22.0                                      | 33.36       | 66.90  | 1.184                       | 24.0  | 1.5                                  | 24.0                           | 1.008                     | 31           | 1.1                 |
| 68.60             | 46.20 | 1.054                             | 22.0                                      | 69.53       | 99.21  | 1.048                       | 23.0  | 1.4                                  | 22.0                           | 1.005                     | 32           | 0.9                 |
| 86.20             | 60.90 | 1.190                             | 22.0                                      | 99.21       | 133.36 | 1.206                       | 24.0  | 1.5                                  | 24.0                           | 0.990                     | 32           | 1.1                 |

**Acceptance Criteria:**

Individual values of DGM calibration factor must be within  $\pm 1.5\%$  of the average value. If not the calibration must be repeated. Also, the DGMCF average value must be  $1.00 \pm 0.05$ , 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)

DGMCF AVERAGE  
1 Lpm 1.001

## ORTECH Environmental Trendicator Calibration

|                          |  |
|--------------------------|--|
| Calibration Procedure    | 03-J005  |
| Trendicator Type         | Jenco 765  |
| MII                      | COE 20018  |
| Date                     | February 16, 2017  |
| Calibrated By            | David Utley  |
| Signature                |  |
| Reviewed and Accepted By |  |

| Fluke Calibrator Output<br>(COE 20024)<br>(°C) | Tredicator Display Value  |                          | Percent<br>Difference<br>(%) |
|--|---------------------------|--------------------------|------------------------------|
|  | Before Adjustment<br>(°C) | After Adjustment<br>(°C) |                              |
| 0  | 1                         | 0                        | 0.0                          |
| 10   | 11                        | 10                       | 0.0                          |
| 20   | 21                        | 20                       | 0.0                          |
| 50   | 51                        | 50                       | 0.0                          |
| 75   | 76                        | 75                       | 0.0                          |
| 100  | 101                       | 100                      | 0.0                          |
| 125  | 126                       | 125                      | 0.0                          |
| 150  | 151                       | 151                      | -0.7                         |
| 200  | 201                       | 200                      | 0.0                          |
| 300  | 301                       | 300                      | 0.0                          |
| 400  | 401                       | 400                      | 0.0                          |
| 500  | 501                       | 500                      | 0.0                          |
| 600  | 601                       | 600                      | 0.0                          |

$$\% \text{ Difference} = \frac{(\text{micromite} - \text{after adjustment reading}) \times 100}{\text{micromite}}$$

### 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 (1 page)**



## **APPENDIX 5**

### **Clean Harbors Process Data (12 pages)**

Test No. 1

| \$Date     | \$Time  | Rich  |       |          |        | Emulsion |         |         |          | Lean     |       |          |       | Alkaline |       |       |        | TDU Flow |          |     |       | Leachate |          |        |         | Primary |         |          |          | Secondary |           |           |           | Stack     |           |           |           | Quench    |           |           |           | SDA       |           |           |           | Stack     |           |           |           | Incinerator |           |           |           | SDA Inlet |           |           |           | BH Inlet  |           |           |           | BH dP |  |  |  |
|------------|---------|-------|-------|----------|--------|----------|---------|---------|----------|----------|-------|----------|-------|----------|-------|-------|--------|----------|----------|-----|-------|----------|----------|--------|---------|---------|---------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|--|--|--|
|            |         | LPM   | LPM   | LPM      | LPM    | LPM      | LPM     | LPM     | LPM      | LPM      | LPM   | LPM      | LPM   | LPM      | LPM   | LPM   | LPM    | LPM      | LPM      | LPM | LPM   | LPM      | LPM      | LPM    | LPM     | m3/h    | m3/h    | m3/h     | m3/h     | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C   | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C |       |  |  |  |
| 09/03/2017 | 9:27:00 | 26.16 | 13.19 | 188.4262 | 174.87 | 1.93375  | 116.025 | 19.5375 | 26299.27 | 15612.42 | 97306 | 1344.625 | 867.3 | 490.7    | 202.5 | 193.8 | -15.05 | -61.25   | -112.538 | 256 | 26.16 | 13.19    | 188.4262 | 174.87 | 1.93375 | 116.025 | 19.5375 | 26299.27 | 15612.42 | 97306     | 1344.625  | 867.3     | 490.7     | 202.5     | 193.8     | -15.05    | -61.25    | -112.538  | 256       |           |           |           |           |           |           |           |           |           |           |             |           |           |           |           |           |           |           |           |           |           |           |       |  |  |  |

| March 9/2017 | Waste Flows |          |          |          |          |          |          |          | Air Flows |          |         |           |          |            |          |             | Temperatures |           |          |  |  |  |  |  | Pressures |  |  |  |
|--------------|-------------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|---------|-----------|----------|------------|----------|-------------|--------------|-----------|----------|--|--|--|--|--|-----------|--|--|--|
|              | Rich        | Emulsion | Lean     | Alkaline | TDU Flow | TDU Flow | Leachate | Primary  | Secondary | Stack    | Primary | Secondary | Quench   | SprayDryer | Stack    | Incinerator | SDA Inlet    | SD Outlet | Baghouse |  |  |  |  |  |           |  |  |  |
| Test 1       | FT-229      | FT-219C  | FT-223   | PV-207   | FT-313B  | FT-313   | PV-211   | 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          | 26.7        | 13.7     | 190.1    | 177.7    | 3.4      | 202.8    | 20.6     | 26741.7  | 15696.7   | 101942.0 | 1372.8  | 875.9     | 497.5    | 206.0      | 198.8    | -2.0        | -45.0        | -91.5     | 295.1    |  |  |  |  |  |           |  |  |  |
| Min          | 24.9        | 12.4     | 187.6    | 173.1    | 1.9      | 113.9    | 19.4     | 25324.6  | 15179.8   | 93485.0  | 1344.6  | 865.5     | 489.5    | 202.0      | 193.8    | -35.0       | -86.8        | -138.0    | 234.7    |  |  |  |  |  |           |  |  |  |
| Average      | 25.9        | 13.1     | 188.8    | 175.2    | 2.9      | 173.5    | 19.6     | 25866.6  | 15450.9   | 96132.0  | 1358.8  | 870.2     | 493.2    | 204.0      | 196.6    | -12.9       | -59.5        | -107.5    | 270.2    |  |  |  |  |  |           |  |  |  |
| Variance     | 0.156687    | 0.120213 | 0.329957 | 0.768543 | 0.089067 | 320.6416 | 0.098383 | 122854.7 | 10158.35  | 3041335  | 39.0841 | 4.176907  | 5.262907 | 1.370765   | 1.601333 | 76.0287     | 128.195      | 154.1401  | 263.5774 |  |  |  |  |  |           |  |  |  |

Test No. 1

| \$Date     | \$Time   | CO         | HCl     | CO2     | H2O     | THC        | O2     | Opacity | SO3    | PAC       |
|------------|----------|------------|---------|---------|---------|------------|--------|---------|--------|-----------|
|            |          | PPM        | PPM     | %       | %       | PPM        | %      | %       | PPM    | Lbs/h     |
|            |          | AT-205CORR | AT-213A | AT-213B | AT-213C | AT-259CORR | AT-261 | AT-263  | AT-264 | SC-PAC-FT |
| 09/03/2017 | 9:27:00  | 39.9       | 61.97   | 9.2     | 47.17   | 10         | 9.02   | 0.27    | 354.2  | 23.1525   |
| 09/03/2017 | 9:28:00  | 39.9       | 61.76   | 9.16    | 47.2    | 10.3       | 9.12   | 0.33    | 352.5  | 23.59875  |
| 09/03/2017 | 9:29:00  | 40.1       | 61.73   | 9.23    | 47.48   | 10.1       | 9.14   | 0.88    | 352.5  | 22.4175   |
| 09/03/2017 | 9:30:00  | 40.3       | 61.3    | 9.3     | 47.51   | 10.7       | 9.01   | 0.86    | 352.5  | 23.415    |
| 09/03/2017 | 9:31:00  | 40.3       | 60.89   | 9.29    | 47.52   | 10.1       | 8.96   | 1.08    | 352.5  | 23.28375  |
| 09/03/2017 | 9:32:00  | 40.4       | 59.46   | 9.26    | 47.42   | 10.6       | 8.87   | 1.11    | 355.1  | 23.70375  |
| 09/03/2017 | 9:33:00  | 40         | 59.04   | 9.27    | 47.45   | 10.3       | 8.9    | 0.86    | 358.5  | 23.23125  |
| 09/03/2017 | 9:34:00  | 38.3       | 59.66   | 9.3     | 47.42   | 9.9        | 8.79   | 0.96    | 362.3  | 22.33875  |
| 09/03/2017 | 9:35:00  | 37.9       | 58.86   | 9.24    | 47.06   | 9.5        | 8.9    | 0.01    | 364.4  | 22.60125  |
| 09/03/2017 | 9:36:00  | 37.7       | 58.86   | 9.24    | 47.06   | 10.2       | 9      | 0.17    | 364.4  | 23.5725   |
| 09/03/2017 | 9:37:00  | 37.2       | 60.44   | 9.26    | 47.26   | 9.7        | 8.99   | 0.73    | 364.6  | 22.54875  |
| 09/03/2017 | 9:38:00  | 37.2       | 60.47   | 9.29    | 47.38   | 11         | 8.95   | 1.11    | 367    | 23.49375  |
| 09/03/2017 | 9:39:00  | 37.8       | 60.42   | 9.37    | 47.58   | 9.4        | 8.86   | 1.17    | 370.2  | 23.70375  |
| 09/03/2017 | 9:40:00  | 37.6       | 59.71   | 9.34    | 47.6    | 10.7       | 8.77   | 1.11    | 368.3  | 23.59875  |
| 09/03/2017 | 9:41:00  | 38.2       | 58.9    | 9.33    | 47.64   | 9.8        | 8.81   | 0.82    | 370.4  | 22.4175   |
| 09/03/2017 | 9:42:00  | 38.3       | 58.44   | 9.34    | 47.63   | 9.9        | 8.79   | 0.83    | 370.4  | 22.3125   |
| 09/03/2017 | 9:43:00  | 37.1       | 58.39   | 9.29    | 47.41   | 9          | 8.85   | 0.02    | 368.1  | 23.28375  |
| 09/03/2017 | 9:44:00  | 36.7       | 58.56   | 9.26    | 47.4    | 9.8        | 8.94   | 0.23    | 364.8  | 22.8375   |
| 09/03/2017 | 9:45:00  | 36.1       | 58.68   | 9.27    | 47.41   | 9.2        | 8.92   | 0.82    | 364.8  | 23.73     |
| 09/03/2017 | 9:46:00  | 35.9       | 59.29   | 9.3     | 47.54   | 10.6       | 8.87   | 0.88    | 366.5  | 22.49625  |
| 09/03/2017 | 9:47:00  | 36.5       | 59.3    | 9.35    | 47.66   | 9.3        | 8.77   | 1.11    | 371.9  | 23.2575   |
| 09/03/2017 | 9:48:00  | 35.6       | 58.64   | 9.32    | 47.52   | 11         | 8.8    | 1.28    | 371.9  | 22.4175   |
| 09/03/2017 | 9:49:00  | 37         | 58.29   | 9.34    | 47.69   | 9          | 8.79   | 0.71    | 376.8  | 22.75875  |
| 09/03/2017 | 9:50:00  | 37.7       | 58.34   | 9.34    | 47.6    | 10.3       | 8.67   | 0.8     | 374.9  | 23.625    |
| 09/03/2017 | 9:51:00  | 36.4       | 57.87   | 9.3     | 47.36   | 9.2        | 8.81   | 0.15    | 369.9  | 23.17875  |
| 09/03/2017 | 9:52:00  | 37.7       | 58.34   | 9.31    | 47.48   | 11         | 8.91   | 0.3     | 373.3  | 22.91625  |
| 09/03/2017 | 9:53:00  | 39.2       | 58.26   | 9.31    | 47.59   | 9.7        | 8.87   | 0.85    | 376    | 23.6775   |
| 09/03/2017 | 9:54:00  | 39.4       | 58.28   | 9.37    | 47.73   | 11.2       | 8.75   | 1.05    | 376.9  | 22.33875  |
| 09/03/2017 | 9:55:00  | 40.2       | 57.69   | 9.46    | 47.93   | 9.7        | 8.71   | 1.17    | 381.1  | 22.89     |
| 09/03/2017 | 9:56:00  | 39.8       | 58      | 9.43    | 47.84   | 11.5       | 8.64   | 1.66    | 380    | 23.73     |
| 09/03/2017 | 9:57:00  | 39.6       | 58.2    | 9.45    | 48.01   | 8.4        | 8.58   | 0.61    | 388.5  | 23.625    |
| 09/03/2017 | 9:58:00  | 39.2       | 57.53   | 9.41    | 47.93   | 9.9        | 8.67   | 1.08    | 384.1  | 23.6775   |
| 09/03/2017 | 9:59:00  | 37.9       | 57.31   | 9.3     | 47.64   | 9.4        | 8.87   | 0.07    | 373.5  | 23.28375  |
| 09/03/2017 | 10:00:00 | 38.3       | 57.05   | 9.31    | 47.63   | 10.1       | 8.88   | 1.05    | 374.6  | 23.12625  |
| 09/03/2017 | 10:01:00 | 37.8       | 57.53   | 9.38    | 47.78   | 9.5        | 8.82   | 0.9     | 377.7  | 23.2575   |
| 09/03/2017 | 10:02:00 | 37.8       | 57.29   | 9.38    | 47.75   | 10.5       | 8.8    | 1.3     | 376.4  | 23.28375  |
| 09/03/2017 | 10:03:00 | 37.8       | 57.2    | 9.38    | 47.88   | 9.5        | 8.73   | 1.18    | 377.6  | 22.8375   |
| 09/03/2017 | 10:04:00 | 39.1       | 56.95   | 9.35    | 47.81   | 10.8       | 8.81   | 1.57    | 376.4  | 23.6775   |
| 09/03/2017 | 10:05:00 | 39.5       | 56.67   | 9.4     | 47.91   | 9          | 8.81   | 0.9     | 378.1  | 23.59875  |
| 09/03/2017 | 10:06:00 | 38.7       | 56.21   | 9.35    | 47.68   | 9.9        | 8.7    | 1       | 377.8  | 22.33875  |
| 09/03/2017 | 10:07:00 | 38         | 56.02   | 9.33    | 47.58   | 9.4        | 8.77   | 0.12    | 376.3  | 23.65125  |
| 09/03/2017 | 10:08:00 | 38.1       | 55.86   | 9.31    | 47.68   | 10.3       | 8.9    | 0.9     | 371.9  | 23.1525   |
| 09/03/2017 | 10:09:00 | 37.8       | 55.76   | 9.32    | 47.81   | 9.7        | 8.89   | 0.8     | 374.9  | 22.28625  |
| 09/03/2017 | 10:10:00 | 38.2       | 55.42   | 9.33    | 47.85   | 10.4       | 8.87   | 0.85    | 372.6  | 22.365    |
| 09/03/2017 | 10:11:00 | 38.7       | 54.72   | 9.33    | 47.84   | 9.8        | 8.78   | 1.15    | 370.3  | 23.07375  |
| 09/03/2017 | 10:12:00 | 38.2       | 54.31   | 9.3     | 47.68   | 10.5       | 8.81   | 1.12    | 371.9  | 22.365    |
| 09/03/2017 | 10:13:00 | 38.5       | 55.13   | 9.31    | 47.71   | 9.4        | 8.8    | 0.61    | 375.2  | 23.1      |
| 09/03/2017 | 10:14:00 | 38.8       | 54.54   | 9.28    | 47.59   | 9.8        | 8.85   | 1.23    | 371.7  | 22.65375  |
| 09/03/2017 | 10:15:00 | 39.2       | 54.5    | 9.23    | 47.42   | 10.3       | 9.03   | 0.2     | 369.2  | 23.02125  |
| 09/03/2017 | 10:16:00 | 40.4       | 54.48   | 9.23    | 47.45   | 10.2       | 9.01   | 1.38    | 372.3  | 23.12625  |
| 09/03/2017 | 10:17:00 | 41         | 53.69   | 9.25    | 47.46   | 10.4       | 8.97   | 0.88    | 372.3  | 22.47     |
| 09/03/2017 | 10:18:00 | 41         | 53.37   | 9.3     | 47.66   | 10.3       | 8.94   | 1.02    | 370.3  | 23.07375  |
| 09/03/2017 | 10:19:00 | 41         | 53.05   | 9.28    | 47.85   | 10.5       | 8.85   | 1.23    | 370.3  | 22.4175   |
| 09/03/2017 | 10:20:00 | 41.3       | 51.42   | 9.29    | 47.72   | 10.4       | 8.86   | 0.77    | 370.3  | 22.365    |
| 09/03/2017 | 10:21:00 | 42.1       | 50.44   | 9.31    | 47.74   | 9.6        | 8.73   | 0.67    | 370.3  | 22.4175   |
| 09/03/2017 | 10:22:00 | 41.5       | 50.38   | 9.26    | 47.55   | 9.7        | 8.81   | 0.48    | 370.3  | 23.44125  |
| 09/03/2017 | 10:23:00 | 40.5       | 50.6    | 9.23    | 47.55   | 9.9        | 9      | 0.3     | 367.9  | 23.2575   |
| 09/03/2017 | 10:24:00 | 40         | 49.9    | 9.26    | 47.68   | 10.5       | 8.98   | 0.98    | 367.9  | 22.60125  |
| 09/03/2017 | 10:25:00 | 40.8       | 50.12   | 9.28    | 47.61   | 10.5       | 8.9    | 0.88    | 369.3  | 22.4175   |
| 09/03/2017 | 10:26:00 | 41.2       | 49.85   | 9.32    | 47.66   | 10.3       | 8.85   | 0.91    | 374.3  | 23.5725   |
| 09/03/2017 | 10:27:00 | 41.4       | 49.68   | 9.31    | 47.6    | 10.7       | 8.81   | 1.2     | 374.3  | 22.365    |

| March 9/2017 | Analyzers |          |         |          |          |          |         |          |           | Flows |
|--------------|-----------|----------|---------|----------|----------|----------|---------|----------|-----------|-------|
|              | CO        | HCl      | CO2     | H2O      | THC      | O2       | Opacity | SO2      | PACFlow   |       |
| Test 1       | AT-205    | AT-213A  | AT-213B | AT-213C  | AT-259   | AT-261   | AT-263  | AT-264   | SC-PAC-FT |       |
| Max          | 42.1      | 62.0     | 9.5     | 48.0     | 11.5     | 9.1      | 1.7     | 388.5    | 23.7      |       |
| Min          | 35.6      | 49.7     | 9.2     | 47.1     | 8.4      | 8.6      | 0.0     | 352.5    | 22.3      |       |
| Average      | 38.8      | 56.8     | 9.3     | 47.6     | 10.0     | 8.9      | 0.8     | 370.2    | 23.0      |       |
| Variance     | 2.454208  | 10.83183 | 0.00335 | 0.042288 | 0.370721 | 0.012356 | 0.15164 | 58.65354 | 0.2483679 |       |

Test No. 2

| SDate      | \$Time   | Rich   | Emulsion | Lean     | Alkaline | TDU Flow | TDU Flow | Leachate | Primary  | Secondary | Stack  | Primary   | Secondary | Quench    | SDA       | Stack     | Incinerator | SDA Inlet | BH Inlet | BH dP    |
|------------|----------|--------|----------|----------|----------|----------|----------|----------|----------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|----------|----------|
|            |          | LPM    | LPM      | LPM      | LPM      | LPM      | SCFM     | LPM      | m3/h     | m3/h      | m3/h   | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | mmH2O       | mmH2O     | mmH2O    | mmH2O    |
| 09/03/2017 | 10:41:00 | 25.365 | 13.595   | 189.9    | 177.12   | 3.13125  | 187.875  | 19.6125  | 25594.2  | 15275.34  | 94319  | 1351.625  | 868.5     | 493.4     | 203.5     | 195.7     | -4.5        | -49.5     | -94.8    | 290      |
| 09/03/2017 | 10:42:00 | 25.875 | 13       | 189.4725 | 176.58   | 3.08     | 184.8    | 19.6125  | 25773.92 | 15179.84  | 94005  | 1349.125  | 868.4     | 493.8     | 203.5     | 196       | -7.3        | -51.15    | -100.125 | 285.6875 |
| 09/03/2017 | 10:43:00 | 25.275 | 13.015   | 187.335  | 174.105  | 2.9625   | 177.75   | 19.6125  | 25421.39 | 15297.81  | 94373  | 1355.875  | 872.6     | 493.3     | 203.5     | 196.9     | -3.3        | -47.6     | -92.7    | 297.25   |
| 09/03/2017 | 10:44:00 | 25.35  | 13.085   | 189.135  | 176.535  | 3.015    | 180.9    | 20.625   | 26119.55 | 15292.2   | 95994  | 1349.5    | 871.8     | 493.2     | 203.5     | 196.9     | -14.4       | -61.4     | -110.7   | 276.9375 |
| 09/03/2017 | 10:45:00 | 25.14  | 12.95    | 188.7075 | 175.59   | 3.07125  | 184.275  | 19.575   | 25773.92 | 15370.85  | 94531  | 1349.125  | 870.7     | 492.9     | 203.5     | 196.9     | -9.3        | -55.6     | -101.85  | 283.9375 |
| 09/03/2017 | 10:46:00 | 25.365 | 12.87    | 189.4162 | 176.4    | 3.05375  | 183.225  | 19.575   | 25684.06 | 15528.15  | 95527  | 1346.125  | 870.3     | 492.6     | 203.5     | 196.9     | -12         | -61.25    | -106.388 | 261.25   |
| 09/03/2017 | 10:47:00 | 25.38  | 13.105   | 187.9988 | 174.735  | 2.87125  | 172.275  | 19.575   | 25594.2  | 15258.49  | 94886  | 1349.125  | 871.8     | 491.7     | 203.5     | 196.9     | -9.55       | -56       | -100.425 | 271.0625 |
| 09/03/2017 | 10:48:00 | 25.35  | 12.605   | 189.909  | 174.87   | 2.82125  | 169.275  | 19.575   | 25856.88 | 15488.83  | 94006  | 1344.125  | 871       | 491.7     | 203.5     | 196.5     | -7.85       | -55.15    | -100.988 | 284.3125 |
| 09/03/2017 | 10:49:00 | 24.735 | 12.845   | 188.3363 | 175.365  | 2.95125  | 177.075  | 19.575   | 25511.25 | 15404.56  | 95094  | 1349.75   | 871.3     | 491.5     | 203       | 196.6     | -5.3        | -48.65    | -95.55   | 294.6875 |
| 09/03/2017 | 10:50:00 | 25.275 | 12.355   | 188.28   | 174.87   | 2.98     | 178.8    | 19.575   | 25504.34 | 15286.58  | 95023  | 1345.5    | 870.6     | 492.3     | 203.5     | 196.6     | -8.95       | -55.45    | -100.163 | 289.375  |
| 09/03/2017 | 10:51:00 | 25.8   | 12.87    | 188.4262 | 176.535  | 2.85125  | 171.075  | 19.575   | 25504.34 | 15280.96  | 93137  | 1349.125  | 872.3     | 492       | 203       | 196.6     | -4.3        | -48.83    | -92.3625 | 296.625  |
| 09/03/2017 | 10:52:00 | 25.455 | 12.74    | 190.1813 | 175.23   | 2.9925   | 179.55   | 19.575   | 25856.88 | 15595.57  | 96158  | 1344      | 870.3     | 492.2     | 203.5     | 196.6     | -13.3       | -60.05    | -106.65  | 275.0625 |
| 09/03/2017 | 10:53:00 | 25.095 | 13.01    | 188.0437 | 175.68   | 2.6875   | 161.25   | 19.575   | 25773.92 | 15404.56  | 98081  | 1346.75   | 872.1     | 492.3     | 203.5     | 197.6     | -17.3       | -68.8     | -108.45  | 246.375  |
| 09/03/2017 | 10:54:00 | 25.545 | 13.07    | 189.945  | 177.705  | 2.9925   | 179.55   | 19.575   | 25767.01 | 15584.33  | 95377  | 1343.75   | 871.3     | 492.5     | 203.5     | 196.9     | -9.55       | -56.65    | -103.463 | 259.6875 |
| 09/03/2017 | 10:55:00 | 25.71  | 12.755   | 189.5175 | 174.96   | 2.89125  | 173.475  | 19.575   | 25414.47 | 15516.92  | 99498  | 1350.875  | 869.6     | 491.9     | 203       | 196.9     | -25.25      | -78.35    | -122.25  | 246.1875 |
| 09/03/2017 | 10:56:00 | 25.23  | 12.935   | 188.8088 | 177.435  | 3.13375  | 188.025  | 19.575   | 25684.06 | 15455.12  | 95233  | 1349      | 870.5     | 491.6     | 203       | 196.9     | -6.85       | -51.15    | -98.7    | 280.1875 |
| 09/03/2017 | 10:57:00 | 25.635 | 12.975   | 189.045  | 175.905  | 3.1575   | 189.45   | 19.575   | 25677.15 | 15438.26  | 100396 | 1352.75   | 871.7     | 491.4     | 202.5     | 196.9     | -25.35      | -79.4     | -124.125 | 239.5625 |
| 09/03/2017 | 10:58:00 | 25.395 | 12.845   | 188.6175 | 175.77   | 3.1325   | 187.95   | 19.575   | 25504.34 | 15365.23  | 94114  | 1351.125  | 870.7     | 492       | 202.5     | 196.9     | -7.25       | -51       | -96.3375 | 282.0625 |
| 09/03/2017 | 10:59:00 | 25.68  | 13.14    | 188.7525 | 174.285  | 3.0225   | 181.35   | 19.575   | 26036.6  | 15427.03  | 100540 | 1353.625  | 867.9     | 491.4     | 202       | 196.9     | -30.3       | -83.55    | -130.763 | 238.625  |
| 09/03/2017 | 11:00:00 | 25.68  | 13.435   | 189.7087 | 175.905  | 3.2125   | 192.75   | 19.575   | 25773.92 | 15460.74  | 95354  | 1345.125  | 871.6     | 491.2     | 202.5     | 196.6     | -11.2       | -57.5     | -105.263 | 270.5625 |
| 09/03/2017 | 11:01:00 | 24.84  | 12.54    | 188.9437 | 173.835  | 3.085    | 185.1    | 19.575   | 26209.41 | 15623.66  | 100075 | 1346      | 870.3     | 490.5     | 202.5     | 196.8     | -32.15      | -86.05    | -133.35  | 233.9375 |
| 09/03/2017 | 11:02:00 | 25.56  | 12.765   | 189.5625 | 174.69   | 3.135    | 188.1    | 19.575   | 25684.06 | 15511.3   | 95790  | 1341.875  | 872.3     | 490.7     | 203       | 196.9     | -9.8        | -54.85    | -104.025 | 255.625  |
| 09/03/2017 | 11:03:00 | 25.26  | 12.88    | 188.3363 | 174.24   | 2.87375  | 172.425  | 19.575   | 26126.46 | 15511.3   | 100161 | 1345.375  | 870.8     | 490.2     | 202.5     | 197.2     | -32.7       | -85.5     | -134.25  | 244.25   |
| 09/03/2017 | 11:04:00 | 25.17  | 12.875   | 189.4725 | 173.79   | 2.765    | 165.9    | 19.575   | 25684.06 | 15314.67  | 94161  | 1345      | 868.8     | 490.7     | 203       | 196.1     | -5.65       | -50.7     | -98.7    | 277.5    |
| 09/03/2017 | 11:05:00 | 24.825 | 12.95    | 189.045  | 175.14   | 3.175    | 190.5    | 19.575   | 26209.69 | 15679.84  | 98913  | 1349.375  | 869.4     | 490.5     | 202.5     | 196.9     | -31.9       | -85.15    | -135.413 | 240.125  |
| 09/03/2017 | 11:06:00 | 25.125 | 13.13    | 188.0437 | 176.4    | 3.12625  | 187.575  | 19.575   | 25594.2  | 15376.47  | 95326  | 1347.375  | 870.2     | 490.5     | 203       | 197.9     | -4.1        | -48.85    | -94.575  | 285.75   |
| 09/03/2017 | 11:07:00 | 25.485 | 12.935   | 187.8525 | 175.32   | 3.235    | 194.1    | 19.575   | 26216.32 | 15505.68  | 99280  | 1354.875  | 870.5     | 490.6     | 202       | 196.7     | -33.55      | -86.25    | -136.463 | 241.375  |
| 09/03/2017 | 11:08:00 | 25.365 | 12.985   | 189.3262 | 175.95   | 2.77     | 166.2    | 19.575   | 25601.11 | 15449.5   | 96230  | 1347.75   | 870       | 491.4     | 203       | 196.7     | -11.7       | -58.8     | -105.338 | 273.0625 |
| 09/03/2017 | 11:09:00 | 25.71  | 12.8     | 188.4713 | 176.13   | 3.17875  | 190.725  | 19.575   | 26479    | 15578.71  | 98397  | 1350.375  | 870.6     | 491.7     | 203       | 196.7     | -33.15      | -85.8     | -134.55  | 240.875  |
| 09/03/2017 | 11:10:00 | 25.38  | 12.875   | 188.5725 | 176.85   | 3.235    | 194.1    | 19.575   | 25677.15 | 15449.5   | 94709  | 1348.125  | 869.6     | 491.9     | 203       | 197.9     | -11.35      | -56.1     | -103.013 | 260.0625 |
| 09/03/2017 | 11:11:00 | 25.74  | 12.395   | 189.4725 | 174.735  | 3.1875   | 191.25   | 19.575   | 26479    | 15691.07  | 99046  | 1348.75   | 870.8     | 491.9     | 203       | 196.4     | -30.3       | -79.5     | -118.35  | 276.875  |
| 09/03/2017 | 11:12:00 | 24.975 | 12.95    | 188.6175 | 174.285  | 3.27875  | 196.725  | 19.575   | 25594.2  | 15314.67  | 94145  | 1349.625  | 869.2     | 492.2     | 203       | 197.4     | -6.45       | -50.85    | -97.3875 | 283.375  |
| 09/03/2017 | 11:13:00 | 24.855 | 12.84    | 188.19   | 173.925  | 2.9025   | 174.15   | 19.575   | 26382.22 | 15640.51  | 99080  | 1354.875  | 870.6     | 492.1     | 203       | 196.9     | -34         | -86.6     | -127.8   | 270.75   |
| 09/03/2017 | 11:14:00 | 25.71  | 12.855   | 189.6075 | 174.735  | 3.26875  | 196.125  | 19.575   | 25504.34 | 15376.47  | 94134  | 1352      | 870.1     | 492.6     | 203.5     | 196.5     | -3.8        | -47.65    | -96.0375 | 291      |
| 09/03/2017 | 11:15:00 | 25.035 | 12.83    | 188.7525 | 174.15   | 3.195    | 191.7    | 19.575   | 26382.22 | 15578.71  | 98473  | 1354.25   | 871.2     | 492.3     | 203       | 196.5     | -34.25      | -88       | -136.088 | 253.0625 |
| 09/03/2017 | 11:16:00 | 25.26  | 13.11    | 189.135  | 175.275  | 3.26375  | 195.825  | 19.575   | 25946.74 | 15314.67  | 95610  | 1350.5    | 870.5     | 491.9     | 203.5     | 196.5     | -10.65      | -56.7     | -102.9   | 278      |
| 09/03/2017 | 11:17:00 | 25.395 | 12.885   | 189.18   | 175.77   | 3.2375   | 194.25   | 19.575   | 26299.27 | 15662.98  | 96166  | 1350      | 871.3     | 491.6     | 203       | 196.5     | -19.75      | -66.2     | -114.788 | 258.25   |
| 09/03/2017 | 11:18:00 | 25.71  | 12.73    | 189.6075 | 175.77   | 3.02125  | 181.275  | 19.575   | 25863.79 | 15401.17  | 96639  | 1352.25   | 871.1     | 491.3     | 203       | 196.6     | -7.4        | -53.35    | -99.825  | 263.125  |
| 09/03/2017 | 11:19:00 | 24.9   | 12.78    | 188.8537 | 174.33   | 3.2025   | 192.15   | 19.575   | 26209.41 | 15561.86  | 94755  | 1354.375  | 869.5     | 491.2     | 202.5     | 197.9     | -13.4       | -59       | -109.838 | 283.8125 |
| 09/03/2017 | 11:20:00 | 25.155 | 12.835   | 189      | 176.22   | 3.27     | 196.2    | 19.575   | 25594.2  | 15314.67  | 94036  | 1355.375  | 870.1     | 490.8     | 202.5     | 196.8     | -5.3        | -49.75    | -96.15   | 286.75   |
| 09/03/2017 | 11:21:00 | 25.5   | 13.01    | 189.4725 | 174.69   | 3.26375  | 195.825  | 19.575   | 26209.41 | 15539.39  | 94853  | 1356.625  | 868.3     | 491       | 202       | 196.8     | -14.2       | -60.55    | -109.538 | 283.9375 |
| 09/03/2017 | 11:22:00 | 25.125 | 12.645   | 188.6625 | 174.96   | 3.17375  | 190.425  | 19.575   | 25421.39 | 15314.67  | 94373  | 1358.875  | 871.1     | 491.1     | 202       | 196.9     | -3.9        | -46.65    | -91.725  | 290      |
| 09/03/2017 | 11:23:00 | 25.185 | 13.025   | 188.6625 | 173.79   | 3.24375  | 194.625  | 19.575   | 26209.41 | 15629.28  | 97700  | 1358.625  | 871.8     | 491.2     | 201.5     | 195.8     | -25         | -72.5     | -123.525 | 268.125  |
| 09/03/2017 | 11:24:00 | 25.44  | 12.87    | 188.4262 | 175.5    | 3.31     | 198.6    | 19.575   | 25497.42 | 15359.61  | 95646  | 1355.875  | 869.8     | 491.4     | 202.5     | 196.9     | -10.85      | -58.05    | -103.35  | 278.75   |
| 09/03/2017 | 11:25:00 | 24.855 | 12.215   | 188.6625 | 174.24   | 3.1375   | 188.25   | 19.575   | 25953.65 | 15421.41  | 95700  | 1351.875  | 870.7     | 491.4     | 202.5     | 197.4     | -16.1       | -63.9     | -112.05  | 257.625  |
| 09/03/2017 | 11:26:00 | 25.05  | 13.05    | 188.5725 | 175.905  | 3.27625  | 196.575  | 19.575   | 25504.34 | 15314.67  | 95381  | 1354.75   | 871.8     | 491.6     | 203       | 196.1     | -11.45      | -55.75    | -102     | 264.625  |
| 09/03/2017 | 11:27:00 | 25.62  | 12.56    | 189.4162 | 173.925  | 3.20875  | 192.525  | 19.575   | 26036.6  | 15314.67  | 96425  | 1351.875  | 869.8     | 491.5     | 203       | 196.1     | -11.05      | -57.1     | -105.113 | 280.75   |
| 09/03/2017 | 11:28:00 | 25.26  | 12.57    | 189.18   | 175.725  | 2.8875   | 173.25   | 19.575   | 25684.06 | 15303.43  | 95164  | 1354.375  | 869.6     | 491.6     | 203       | 197.3     | -7.35       | -52.55    | -97.575  | 287.25   |
| 09/03/2017 | 11:29:00 | 25.26  | 12.69    | 188.8537 | 174.915  | 2.66375  | 159.825  | 19.575   | 25946.74 | 15365.23  | 93948  | 1354.5    | 870.4     | 491.5     | 202.5     | 196.3     | -10.1       | -57.8     | -103.988 | 284.6875 |
| 09/03/2017 | 11:30:00 | 25.215 | 12.505   | 187.8075 | 176.265  | 3.2575   | 195.45   | 19.575   | 25421.39 | 15342.76  | 93352  | 1358      | 869.7     | 490.8     | 202.5     | 196.1     | -3.35       | -49.25    | -91.65   | 292.6875 |
|            |          |        |          |          |          |          |          |          |          |           |        |           |           |           |           |           |             |           |          |          |



Test No. 2

| \$Date     | \$Time   | CO         | HCl     | CO2     | H2O     | THC        | O2     | Opacity | SO3    | PAC       |
|------------|----------|------------|---------|---------|---------|------------|--------|---------|--------|-----------|
|            |          | PPM        | PPM     | %       | %       | PPM        | %      | %       | PPM    | Lbs/h     |
|            |          | AT-205CORR | AT-213A | AT-213B | AT-213C | AT-259CORR | AT-261 | AT-263  | AT-264 | SC-PAC-FT |
| 09/03/2017 | 10:41:00 | 42.9       | 50.87   | 9.25    | 47.41   | 11.1       | 8.96   | 0.9     | 376.8  | 22.44375  |
| 09/03/2017 | 10:42:00 | 45.6       | 50.99   | 9.32    | 47.81   | 9.4        | 8.94   | 0.98    | 382.1  | 23.70375  |
| 09/03/2017 | 10:43:00 | 45.2       | 51.63   | 9.29    | 47.58   | 11.3       | 8.92   | 1.2     | 380.9  | 22.44375  |
| 09/03/2017 | 10:44:00 | 44.5       | 51.07   | 9.3     | 47.64   | 9.7        | 8.92   | 0.86    | 383.1  | 23.17875  |
| 09/03/2017 | 10:45:00 | 42.7       | 50.21   | 9.29    | 47.66   | 11         | 8.85   | 0.86    | 380    | 22.49625  |
| 09/03/2017 | 10:46:00 | 43.2       | 50.6    | 9.25    | 47.57   | 9.5        | 8.95   | 0.15    | 380    | 22.96875  |
| 09/03/2017 | 10:47:00 | 44.6       | 51.01   | 9.26    | 47.61   | 11.1       | 9.02   | 0.11    | 376.8  | 23.205    |
| 09/03/2017 | 10:48:00 | 45.4       | 50.53   | 9.29    | 47.63   | 9.9        | 8.93   | 0.67    | 376.8  | 22.3125   |
| 09/03/2017 | 10:49:00 | 45         | 50.98   | 9.31    | 47.71   | 11.2       | 8.92   | 0.98    | 378    | 22.91625  |
| 09/03/2017 | 10:50:00 | 48         | 50.43   | 9.34    | 47.83   | 9.7        | 8.85   | 1.15    | 381.1  | 23.23125  |
| 09/03/2017 | 10:51:00 | 49.3       | 49.37   | 9.29    | 47.68   | 11.3       | 8.87   | 1.26    | 381.1  | 22.49625  |
| 09/03/2017 | 10:52:00 | 47.1       | 50.66   | 9.3     | 47.74   | 9.4        | 8.86   | 0.46    | 384.6  | 23.02125  |
| 09/03/2017 | 10:53:00 | 46.6       | 50.04   | 9.22    | 47.52   | 10.6       | 8.85   | 0.73    | 379.5  | 23.59875  |
| 09/03/2017 | 10:54:00 | 47         | 50.15   | 9.17    | 47.42   | 9.7        | 8.92   | 0.07    | 376.8  | 23.70375  |
| 09/03/2017 | 10:55:00 | 53.4       | 50.02   | 9.25    | 47.65   | 11.1       | 8.98   | 0.5     | 375.6  | 22.7325   |
| 09/03/2017 | 10:56:00 | 55.6       | 49.76   | 9.3     | 47.76   | 10.6       | 8.95   | 0.73    | 380.6  | 22.785    |
| 09/03/2017 | 10:57:00 | 50.3       | 49.66   | 9.31    | 47.65   | 11.2       | 8.82   | 1.11    | 383.8  | 23.59875  |
| 09/03/2017 | 10:58:00 | 49         | 49.02   | 9.34    | 47.77   | 10.3       | 8.81   | 1.11    | 386.5  | 23.54625  |
| 09/03/2017 | 10:59:00 | 46.2       | 48.8    | 9.29    | 47.7    | 11.2       | 8.84   | 1.42    | 384.9  | 23.5725   |
| 09/03/2017 | 11:00:00 | 43.7       | 48.93   | 9.37    | 47.96   | 9.4        | 8.84   | 0.51    | 389.6  | 23.205    |
| 09/03/2017 | 11:01:00 | 43.7       | 48.88   | 9.3     | 47.73   | 10.8       | 8.89   | 0.96    | 387.9  | 23.52     |
| 09/03/2017 | 11:02:00 | 44.1       | 49.59   | 9.21    | 47.41   | 10.3       | 9.08   | 0.05    | 383    | 23.31     |
| 09/03/2017 | 11:03:00 | 43.4       | 50.59   | 9.24    | 47.39   | 11.4       | 9.05   | 1.23    | 383    | 22.65375  |
| 09/03/2017 | 11:04:00 | 42.3       | 51.95   | 9.27    | 47.5    | 10.5       | 8.89   | 0.78    | 387.7  | 22.47     |
| 09/03/2017 | 11:05:00 | 42.3       | 52.83   | 9.31    | 47.7    | 11.6       | 8.88   | 1.17    | 390    | 22.39125  |
| 09/03/2017 | 11:06:00 | 43.9       | 53.28   | 9.31    | 47.75   | 10.6       | 8.82   | 1.23    | 390    | 22.39125  |
| 09/03/2017 | 11:07:00 | 45         | 52.27   | 9.31    | 47.79   | 11.7       | 8.87   | 1.45    | 390    | 23.12625  |
| 09/03/2017 | 11:08:00 | 46.8       | 52.11   | 9.4     | 48.04   | 9.7        | 8.85   | 0.57    | 391.6  | 22.785    |
| 09/03/2017 | 11:09:00 | 46.4       | 53.26   | 9.3     | 47.59   | 10.4       | 8.81   | 1.38    | 387.7  | 23.4675   |
| 09/03/2017 | 11:10:00 | 45         | 53.05   | 9.24    | 47.41   | 10.1       | 8.89   | 0.01    | 386.2  | 22.9425   |
| 09/03/2017 | 11:11:00 | 46.1       | 53.61   | 9.27    | 47.67   | 10         | 8.99   | 1.63    | 386.2  | 22.5225   |
| 09/03/2017 | 11:12:00 | 48.2       | 54.49   | 9.27    | 47.69   | 10.2       | 8.93   | 0.76    | 386.2  | 23.2575   |
| 09/03/2017 | 11:13:00 | 50.6       | 54.31   | 9.26    | 47.55   | 10.4       | 8.88   | 1.2     | 386.2  | 23.5725   |
| 09/03/2017 | 11:14:00 | 51.5       | 54      | 9.31    | 47.6    | 10.3       | 8.82   | 1.07    | 391.7  | 23.65125  |
| 09/03/2017 | 11:15:00 | 49.9       | 53.93   | 9.3     | 47.62   | 10.7       | 8.89   | 1.13    | 391.7  | 22.3125   |
| 09/03/2017 | 11:16:00 | 51.1       | 54.5    | 9.34    | 47.85   | 9.8        | 8.81   | 0.65    | 391.7  | 23.49375  |
| 09/03/2017 | 11:17:00 | 50.6       | 53.78   | 9.25    | 47.42   | 9.8        | 8.92   | 1.26    | 386.9  | 23.5725   |
| 09/03/2017 | 11:18:00 | 51.4       | 53.16   | 9.23    | 47.39   | 10.4       | 9      | 0.11    | 383.3  | 23.52     |
| 09/03/2017 | 11:19:00 | 52.8       | 53.93   | 9.32    | 47.69   | 10.3       | 8.91   | 1.02    | 384.5  | 22.5225   |
| 09/03/2017 | 11:20:00 | 52.1       | 54.78   | 9.31    | 47.7    | 10.4       | 8.82   | 0.86    | 384.5  | 22.89     |
| 09/03/2017 | 11:21:00 | 51.7       | 52.99   | 9.34    | 47.95   | 10.3       | 8.81   | 0.73    | 386.4  | 23.73     |
| 09/03/2017 | 11:22:00 | 49.5       | 53.14   | 9.32    | 47.89   | 10.2       | 8.78   | 0.67    | 387.4  | 23.49375  |
| 09/03/2017 | 11:23:00 | 49.2       | 52.9    | 9.32    | 47.83   | 10.8       | 8.81   | 0.17    | 388.4  | 22.33875  |
| 09/03/2017 | 11:24:00 | 47.3       | 52.74   | 9.31    | 47.77   | 9.4        | 8.74   | 1.43    | 390    | 23.1      |
| 09/03/2017 | 11:25:00 | 47.1       | 54.17   | 9.25    | 47.5    | 10.1       | 8.82   | 0.95    | 386.5  | 23.205    |
| 09/03/2017 | 11:26:00 | 47.2       | 54.19   | 9.22    | 47.51   | 10.5       | 9.01   | 0.86    | 386.5  | 22.5225   |
| 09/03/2017 | 11:27:00 | 45         | 54.67   | 9.24    | 47.55   | 10.3       | 8.95   | 1.3     | 389.6  | 22.6275   |
| 09/03/2017 | 11:28:00 | 45         | 54.89   | 9.26    | 47.6    | 10.8       | 8.89   | 1.36    | 391.1  | 22.70625  |
| 09/03/2017 | 11:29:00 | 46.7       | 56.47   | 9.34    | 47.89   | 10.1       | 8.89   | 1.42    | 394.3  | 23.02125  |
| 09/03/2017 | 11:30:00 | 46.4       | 56.36   | 9.3     | 47.71   | 11.2       | 8.81   | 0.07    | 390.3  | 23.31     |
| 09/03/2017 | 11:31:00 | 46.6       | 56.22   | 9.31    | 47.82   | 10.6       | 8.84   | 1.13    | 394    | 23.12625  |
| 09/03/2017 | 11:32:00 | 46.6       | 56.09   | 9.33    | 48.01   | 10.3       | 8.79   | 0.96    | 395.5  | 23.49375  |
| 09/03/2017 | 11:33:00 | 43.9       | 55.69   | 9.27    | 47.71   | 9.8        | 8.91   | 0.4     | 391.3  | 23.17875  |
| 09/03/2017 | 11:34:00 | 44.3       | 55.73   | 9.27    | 47.59   | 10.7       | 8.94   | 0.73    | 389    | 22.81125  |
| 09/03/2017 | 11:35:00 | 45.4       | 56.39   | 9.29    | 47.64   | 9.8        | 8.9    | 1.11    | 390.3  | 23.07375  |
| 09/03/2017 | 11:36:00 | 45.3       | 57.18   | 9.3     | 47.81   | 10.7       | 8.89   | 1.38    | 390.3  | 22.365    |
| 09/03/2017 | 11:37:00 | 45.3       | 57.42   | 9.28    | 47.76   | 9.7        | 8.89   | 0.11    | 388.7  | 23.31     |
| 09/03/2017 | 11:38:00 | 44.9       | 57.58   | 9.24    | 47.6    | 10.9       | 8.88   | 0.13    | 387.3  | 23.59875  |
| 09/03/2017 | 11:39:00 | 46.3       | 57.23   | 9.26    | 47.75   | 9.8        | 8.9    | 1.23    | 389.3  | 22.89     |
| 09/03/2017 | 11:40:00 | 46.7       | 56.57   | 9.24    | 47.66   | 10.8       | 8.81   | 1.23    | 387.7  | 23.59875  |
| 09/03/2017 | 11:41:00 | 44.3       | 56.71   | 9.18    | 47.41   | 9.7        | 8.96   | 0.55    | 383.5  | 22.91625  |

| March 9/2017 | Analyzers |          |          |          |          |          |          |          |            | Flows |  |
|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|------------|-------|--|
|              | CO        | HCl      | CO2      | H2O      | THC      | O2       | Opacity  | SO2      | PAC        | Flow  |  |
| Test 2       | AT-205    | AT-213A  | AT-213B  | AT-213C  | AT-259   | AT-261   | AT-263   | AT-264   | SC-PAC-FT  |       |  |
| Max          | 55.6      | 57.6     | 9.4      | 48.0     | 11.7     | 9.1      | 1.6      | 395.5    | 23.7       |       |  |
| Min          | 42.3      | 48.8     | 9.2      | 47.4     | 9.4      | 8.7      | 0.0      | 375.6    | 22.3       |       |  |
| Average      | 46.8      | 52.9     | 9.3      | 47.7     | 10.4     | 8.9      | 0.9      | 386.0    | 23.0       |       |  |
| Variance     | 9.107426  | 6.589938 | 0.001855 | 0.024669 | 0.364322 | 0.004787 | 0.190808 | 23.30067 | 0.19771425 |       |  |

Test No. 3

| SDate      | STime    | Rich   | Emulsion | Lean     | Alkaline | TDU Flow | TDU Flow | Leachate | Primary           | Secondary         | Stack             | Primary   | Secondary | Quench    | SDA       | Stack     | Incinerator | SDA Inlet | BH Inlet | BH dP    |
|------------|----------|--------|----------|----------|----------|----------|----------|----------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|----------|----------|
|            |          | LPM    | LPM      | LPM      | LPM      | LPM      | SCFM     | LPM      | m <sup>3</sup> /h | m <sup>3</sup> /h | m <sup>3</sup> /h | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | mmH2O       | mmH2O     | mmH2O    | mmH2O    |
|            |          | FT-229 | FT-219C  | FT-223   | PV-207   | FT-313B  | FT-313   | PV-211   | PV-236            | PV-209            | FT-260C           | TE-240    | TE-241    | TE-203    | TE-204    | TE-258    | PT-242A     | PT-249    | PT-615   | PDT-622  |
| 09/03/2017 | 11:53:00 | 25.395 | 12.91    | 189.4725 | 175.95   | 3.1975   | 191.85   | 19.575   | 25504.34          | 15314.67          | 94309             | 1352.625  | 871.8     | 489.9     | 201.5     | 195.8     | -7.1        | -53.25    | -97.95   | 286.1875 |
| 09/03/2017 | 11:54:00 | 25.11  | 12.775   | 187.4363 | 175.14   | 2.90375  | 174.225  | 20.5875  | 25391.52          | 15275.34          | 99800             | 1356.625  | 871.4     | 489.9     | 201       | 195.8     | -25.65      | -81.05    | -120.713 | 246.3125 |
| 09/03/2017 | 11:55:00 | 25.635 | 12.755   | 189.6075 | 175.86   | 2.94875  | 176.925  | 19.3875  | 26036.6           | 15494.44          | 96397             | 1351.875  | 871.7     | 490.6     | 201.5     | 195.8     | -13.3       | -59.3     | -108     | 276      |
| 09/03/2017 | 11:56:00 | 25.53  | 13.095   | 188.9437 | 176.76   | 3.29375  | 197.625  | 19.3875  | 25773.92          | 15455.12          | 99589             | 1353.875  | 870.5     | 490.8     | 201.5     | 195.8     | -28.7       | -82.6     | -128.25  | 235      |
| 09/03/2017 | 11:57:00 | 24.99  | 12.865   | 190.1362 | 177.075  | 3.25875  | 195.525  | 19.3875  | 26126.46          | 15455.12          | 95908             | 1350.375  | 868.6     | 491.3     | 202       | 195.8     | -11.75      | -58.85    | -104.663 | 257.8125 |
| 09/03/2017 | 11:58:00 | 25.53  | 12.925   | 189.2362 | 176.49   | 2.7675   | 166.05   | 20.4     | 26043.51          | 15550.62          | 100624            | 1355.75   | 871.8     | 491.6     | 201.5     | 196.1     | -32         | -85.2     | -133.313 | 246.375  |
| 09/03/2017 | 11:59:00 | 25.485 | 12.805   | 188.8988 | 175.23   | 3.3275   | 199.65   | 20.4     | 25863.79          | 15398.94          | 94383             | 1352.5    | 869.5     | 492.3     | 202       | 196.4     | -8.15       | -53.8     | -101.4   | 282.0625 |
| 09/03/2017 | 12:00:00 | 25.41  | 12.615   | 188.5725 | 173.655  | 3.085    | 185.1    | 20.4     | 25863.79          | 15427.03          | 99837             | 1357      | 869       | 491.1     | 201.5     | 196.3     | -33.15      | -85.05    | -133.613 | 243.625  |
| 09/03/2017 | 12:01:00 | 25.575 | 12.625   | 189.6525 | 176.22   | 2.7725   | 166.35   | 19.3875  | 25594.2           | 15415.79          | 95391             | 1354.5    | 870       | 491.1     | 201.5     | 196.6     | -4.55       | -50.5     | -94.5    | 285.4375 |
| 09/03/2017 | 12:02:00 | 25.44  | 12.725   | 188.4262 | 176.33   | 3.0525   | 183.15   | 19.3875  | 26036.6           | 15415.79          | 99016             | 1360.5    | 870.3     | 489.9     | 201       | 195.5     | -32.4       | -87.5     | -134.738 | 244      |
| 09/03/2017 | 12:03:00 | 25.38  | 13.07    | 189.2362 | 175.725  | 3.40375  | 204.225  | 19.3875  | 25690.97          | 15393.32          | 95776             | 1351      | 869.2     | 490.7     | 201       | 195.2     | -12.35      | -61.05    | -107.138 | 276      |
| 09/03/2017 | 12:04:00 | 25.44  | 12.98    | 188.6175 | 175.23   | 3.19125  | 191.475  | 19.3875  | 26216.32          | 15601.19          | 100356            | 1352.625  | 869.9     | 490.5     | 201       | 196.1     | -31.65      | -84.9     | -137.063 | 237.75   |
| 09/03/2017 | 12:05:00 | 25.755 | 12.705   | 188.235  | 176.94   | 3.28125  | 196.875  | 19.3875  | 25946.74          | 15314.67          | 96068             | 1352.625  | 869.9     | 491.4     | 201.5     | 196.2     | -10.95      | -58.65    | -103.463 | 260.125  |
| 09/03/2017 | 12:06:00 | 25.335 | 12.675   | 188.7525 | 176.58   | 3.23625  | 194.175  | 19.35    | 26389.14          | 15612.42          | 99463             | 1355.875  | 869.8     | 491       | 201.5     | 196.1     | -32.55      | -86.7     | -133.575 | 253.75   |
| 09/03/2017 | 12:07:00 | 25.095 | 13.015   | 189.5175 | 177.3    | 3.165    | 189.9    | 19.35    | 25684.06          | 15370.85          | 95524             | 1356      | 869.4     | 491.1     | 201.5     | 195.9     | -5.1        | -50.6     | -97.8    | 280.8125 |
| 09/03/2017 | 12:08:00 | 25.35  | 12.85    | 188.8537 | 176.76   | 2.43375  | 146.025  | 19.35    | 26389.14          | 15477.59          | 98622             | 1359.5    | 868.8     | 490.8     | 201       | 195.9     | -32.45      | -85.45    | -135.225 | 244.6875 |
| 09/03/2017 | 12:09:00 | 25.845 | 12.8     | 187.9088 | 178.245  | 3.06375  | 183.825  | 19.35    | 25601.11          | 15477.59          | 94712             | 1360.625  | 867.5     | 491.2     | 201       | 195.9     | -5.9        | -51.55    | -95.8125 | 288.5625 |
| 09/03/2017 | 12:10:00 | 25.305 | 12.72    | 188.235  | 175.86   | 2.9375   | 176.25   | 19.35    | 26479             | 15505.68          | 98874             | 1360.625  | 869.8     | 491       | 200.5     | 196.2     | -34.65      | -87.85    | -136.613 | 248.375  |
| 09/03/2017 | 12:11:00 | 25.515 | 12.815   | 188.6175 | 176.58   | 2.90625  | 174.375  | 19.35    | 25594.2           | 15455.12          | 95640             | 1357.25   | 870.5     | 491.7     | 201       | 195.3     | -10.9       | -58.55    | -104.85  | 278.25   |
| 09/03/2017 | 12:12:00 | 25.65  | 12.45    | 188.8988 | 175.23   | 3.1125   | 186.75   | 19.35    | 26479             | 15455.12          | 97110             | 1354.75   | 868.9     | 492.4     | 201       | 195.9     | -23.85      | -70.1     | -113.213 | 256.9375 |
| 09/03/2017 | 12:13:00 | 25.08  | 12.72    | 189.045  | 176.175  | 3.15625  | 189.375  | 19.35    | 25601.11          | 15275.34          | 94850             | 1351.875  | 869.7     | 492.5     | 202       | 195.9     | -9.3        | -55.4     | -101.925 | 263.125  |
| 09/03/2017 | 12:14:00 | 24.99  | 12.385   | 188.5725 | 176.67   | 2.93375  | 176.025  | 19.35    | 26209.41          | 15516.92          | 96824             | 1353.375  | 868.5     | 492.4     | 201.5     | 195.9     | -15.75      | -64.45    | -112.763 | 281.8125 |
| 09/03/2017 | 12:15:00 | 25.635 | 12.925   | 188.9437 | 179.01   | 3.34125  | 200.475  | 19.35    | 25594.2           | 15331.52          | 95228             | 1352.5    | 869.1     | 492.4     | 202       | 195.3     | -8.25       | -54.6     | -98.6625 | 283.3125 |
| 09/03/2017 | 12:16:00 | 25.08  | 12.72    | 187.7175 | 178.515  | 2.9425   | 176.55   | 19.35    | 26389.14          | 15595.57          | 95632             | 1354.375  | 867.8     | 492.2     | 201       | 195.5     | -17.85      | -64.25    | -113.225 | 283.375  |
| 09/03/2017 | 12:17:00 | 25.365 | 12.795   | 189.09   | 179.775  | 3.24625  | 194.775  | 19.35    | 25511.25          | 15320.29          | 94760             | 1356.125  | 869.3     | 491.9     | 200.5     | 194.8     | -2.95       | -47.3     | -92.225  | 290.25   |
| 09/03/2017 | 12:18:00 | 25.455 | 12.645   | 188.235  | 178.425  | 3.29125  | 197.475  | 20.735   | 26741.67          | 15696.69          | 97262             | 1356.875  | 871       | 491.7     | 200       | 195.2     | -29.8       | -80.95    | -130.35  | 261.1875 |
| 09/03/2017 | 12:19:00 | 25.485 | 12.865   | 188.8988 | 180.09   | 3.27375  | 196.425  | 19.6875  | 25594.2           | 15421.41          | 96294             | 1354.125  | 869.1     | 491.4     | 200       | 195.2     | -11         | -58.9     | -104.138 | 276.1875 |
| 09/03/2017 | 12:20:00 | 25.26  | 12.94    | 188.8537 | 179.595  | 3.08875  | 185.325  | 19.6875  | 26209.41          | 15522.53          | 96569             | 1354.25   | 869       | 491.2     | 199.5     | 195.1     | -16.8       | -62.2     | -112.613 | 252.5    |
| 09/03/2017 | 12:21:00 | 25.32  | 12.865   | 188.7525 | 180.81   | 3.045    | 182.7    | 19.6875  | 25504.34          | 15410.17          | 95179             | 1354.375  | 868.5     | 491.2     | 199.5     | 195.1     | -8.1        | -54.25    | -101.1   | 258.25   |
| 09/03/2017 | 12:22:00 | 25.92  | 12.56    | 187.9988 | 178.83   | 2.98     | 178.8    | 19.6875  | 26119.55          | 15516.92          | 96905             | 1355.625  | 869       | 491.2     | 199       | 195.3     | -12.15      | -61.1     | -107.963 | 275.375  |
| 09/03/2017 | 12:23:00 | 25.125 | 12.715   | 189.2362 | 175.14   | 3.08875  | 185.325  | 19.6875  | 25391.52          | 15252.87          | 95102             | 1354.875  | 869.1     | 491.6     | 199       | 194.4     | -8.25       | -53.5     | -101.1   | 284.8125 |
| 09/03/2017 | 12:24:00 | 25.335 | 12.69    | 188.6175 | 173.97   | 3.10125  | 186.075  | 19.6875  | 25953.65          | 15236.02          | 95370             | 1355      | 870.5     | 492.1     | 199.5     | 195       | -13.75      | -60.35    | -107.663 | 281      |
| 09/03/2017 | 12:25:00 | 25.035 | 12.79    | 188.9437 | 175.32   | 3.01875  | 181.125  | 19.6875  | 25594.2           | 15168.6           | 93456             | 1357.25   | 867.1     | 492       | 200.5     | 195       | -4.25       | -48.85    | -95.4375 | 290.3125 |
| 09/03/2017 | 12:26:00 | 25.44  | 12.57    | 189.5625 | 174.87   | 2.7475   | 164.85   | 19.6875  | 26568.86          | 15500.06          | 96780             | 1355.125  | 868       | 492       | 200.5     | 193.8     | -21.45      | -71.85    | -120.9   | 274.875  |
| 09/03/2017 | 12:27:00 | 25.41  | 12.61    | 188.8088 | 175.59   | 3.15875  | 189.525  | 19.6875  | 25773.92          | 15292.2           | 95440             | 1353.625  | 871.4     | 492       | 201.5     | 195       | -13.65      | -60       | -106.95  | 280.5625 |
| 09/03/2017 | 12:28:00 | 25.575 | 12.675   | 188.235  | 174.24   | 2.7475   | 164.85   | 19.6875  | 26299.27          | 15427.03          | 95420             | 1351.875  | 868.7     | 492.1     | 202       | 195.7     | -17.35      | -64.3     | -112.913 | 257.5625 |
| 09/03/2017 | 12:29:00 | 25.425 | 13.2     | 188.7525 | 177.165  | 3.025    | 181.5    | 19.6875  | 25594.2           | 15427.03          | 94602             | 1350.875  | 868       | 492       | 202       | 195.2     | -8.7        | -55.3     | -99.9375 | 263.125  |
| 09/03/2017 | 12:30:00 | 24.915 | 13.18    | 189.4725 | 174.825  | 2.99375  | 179.625  | 19.6875  | 25856.88          | 15545.01          | 97139             | 1350.875  | 869.5     | 492       | 202       | 195.1     | -11         | -59.05    | -104.925 | 280.125  |
| 09/03/2017 | 12:31:00 | 25.32  | 12.665   | 188.7525 | 175.725  | 2.82375  | 169.425  | 19.6875  | 25511.25          | 15275.34          | 95415             | 1355.25   | 868.5     | 492       | 202       | 195.1     | -8.2        | -54.6     | -99.075  | 288.5    |
| 09/03/2017 | 12:32:00 | 24.975 | 12.945   | 189.7538 | 176.805  | 2.825    | 169.5    | 19.6875  | 25863.79          | 15303.43          | 95068             | 1356.625  | 868.6     | 492       | 202       | 195.1     | -10.2       | -56       | -103.875 | 284.375  |
| 09/03/2017 | 12:33:00 | 25.71  | 12.955   | 189.09   | 176.67   | 2.79     | 167.4    | 19.6875  | 25331.52          | 15353.99          | 93834             | 1359.75   | 868.4     | 491.9     | 201.5     | 194.9     | -4.2        | -49.85    | -92.3625 | 291.5625 |
| 09/03/2017 | 12:34:00 | 25.2   | 13.025   | 188.9437 | 175.095  | 2.59     | 155.4    | 19.6875  | 25946.74          | 15528.15          | 95662             | 1357.625  | 869       | 492.1     | 201.5     | 195.1     | -17.15      | -64.4     | -114.45  | 274.6875 |
| 09/03/2017 | 12:35:00 | 25.215 | 12.555   | 187.7175 | 175.185  | 2.4      | 144      | 19.6875  | 25594.2           | 15353.99          | 94957             | 1355.75   | 867.8     | 492.6     | 202       | 195.9     | -9.45       | -55.45    | -104.325 | 278.0625 |
| 09/03/2017 | 12:36:00 | 25.545 | 12.67    | 188.5162 | 174.825  | 2.7475   | 164.85   | 19.6875  | 26029.69          | 15522.53          | 94810             | 1349.375  | 867.6     | 493.1     | 202.5     | 195.9     | -14.65      | -60.95    | -110.663 | 255.25   |
| 09/03/2017 | 12:37:00 | 25.29  | 13.115   | 189      | 177.03   | 2.68375  | 161.025  | 19.6875  | 25773.92          | 15348.38          | 94049             | 1349.625  | 866.9     | 493.3     | 202.5     | 195.8     | -10         | -55.35    | -101.438 | 263.75   |
| 09/03/2017 | 12:38:00 | 25.395 | 12.56    | 188.4713 | 175.41   | 2.84125  | 170.475  | 19.6875  | 25684.06          | 15488.83          | 94927             | 1349.125  | 871.6     | 493.1     | 202.5     | 195.8     | -11.6       | -57.9     | -104.138 | 276.625  |
| 09/03/2017 | 12:39:00 | 24.915 | 12.76    | 188.5725 | 174.87   | 2.95     | 177      | 19.6875  | 25504.34          | 15382.08          | 94930             | 1354.75   | 869.2     | 492.8     | 202.5     | 195.8     | -6.65       | -53.25    | -98.475  | 288.0625 |
| 09/03/2017 | 12:40:00 | 25.14  | 12.695   | 187.8075 | 175.455  | 2.7875   | 167.25   | 19.6875  | 25601.11          | 15269.72          | 95158             | 1352.125  | 869.1     | 493       | 203       | 196.7     | -10.6       | -56.85    | -103.125 | 284.8125 |
| 09/03/2017 | 12:41:00 | 25.065 | 12.89    | 188.6625 | 174.69   | 2.6875   | 161.25   | 19.6875  | 25248.57          | 15303.43          | 94346             | 1356.5    | 869       | 492.4     | 202.5     | 195.7     | -5.2        | -50       |          |          |

Test No. 3

| Date       | Time     | CO         | HCl     | CO2     | H2O     | THC        | O2     | Opacity | SO3    | PAC       |
|------------|----------|------------|---------|---------|---------|------------|--------|---------|--------|-----------|
|            |          | PPM        | PPM     | %       | %       | PPM        | %      | %       | PPM    | Lbs/h     |
| \$Date     | \$Time   | AT-205corr | AT-213A | AT-213B | AT-213C | AT-259corr | AT-261 | AT-263  | AT-264 | SC-PAC-FT |
| 09/03/2017 | 11:53:00 | 48.7       | 58.32   | 9.27    | 47.7    | 9.9        | 8.88   | 0.42    | 396.5  | 23.6775   |
| 09/03/2017 | 11:54:00 | 48.3       | 57.71   | 9.27    | 47.64   | 11.5       | 8.91   | 0.53    | 395.2  | 22.86375  |
| 09/03/2017 | 11:55:00 | 49.6       | 57.45   | 9.32    | 47.74   | 9.6        | 8.87   | 1.51    | 395.2  | 22.81125  |
| 09/03/2017 | 11:56:00 | 47.2       | 56.65   | 9.24    | 47.48   | 10.6       | 8.82   | 0.13    | 392.5  | 22.47     |
| 09/03/2017 | 11:57:00 | 47.8       | 56.34   | 9.21    | 47.43   | 10         | 8.91   | 1.05    | 392.5  | 23.5725   |
| 09/03/2017 | 11:58:00 | 48.2       | 56.94   | 9.26    | 47.54   | 10.9       | 8.94   | 1.5     | 392.5  | 23.54625  |
| 09/03/2017 | 11:59:00 | 46.6       | 57.63   | 9.28    | 47.54   | 9.7        | 8.89   | 0.2     | 394.3  | 23.12625  |
| 09/03/2017 | 12:00:00 | 48.5       | 57.82   | 9.3     | 47.81   | 10.9       | 8.91   | 0.48    | 396    | 22.4175   |
| 09/03/2017 | 12:01:00 | 49.5       | 56.72   | 9.25    | 47.83   | 10         | 8.9    | 0.55    | 396.5  | 22.47     |
| 09/03/2017 | 12:02:00 | 48.9       | 56.18   | 9.21    | 47.61   | 11.6       | 8.93   | 0.88    | 394.1  | 23.625    |
| 09/03/2017 | 12:03:00 | 50         | 55.87   | 9.28    | 47.71   | 9.7        | 8.82   | 1.55    | 395.2  | 22.86375  |
| 09/03/2017 | 12:04:00 | 49.8       | 54.77   | 9.26    | 47.58   | 10.3       | 8.87   | 0.51    | 395.2  | 23.70375  |
| 09/03/2017 | 12:05:00 | 49.2       | 54.27   | 9.2     | 47.43   | 10.3       | 9.07   | 1.1     | 392.4  | 23.205    |
| 09/03/2017 | 12:06:00 | 49.4       | 55.6    | 9.24    | 47.57   | 10.9       | 9.1    | 0.35    | 392.4  | 22.81125  |
| 09/03/2017 | 12:07:00 | 49         | 55.59   | 9.29    | 47.65   | 10.2       | 8.96   | 0.4     | 392.4  | 22.54875  |
| 09/03/2017 | 12:08:00 | 50.8       | 54.39   | 9.3     | 47.88   | 10.8       | 8.9    | 0.57    | 391.3  | 22.995    |
| 09/03/2017 | 12:09:00 | 51.1       | 54.54   | 9.33    | 48.01   | 10.4       | 8.83   | 0.63    | 393.4  | 22.39125  |
| 09/03/2017 | 12:10:00 | 49.5       | 54.58   | 9.26    | 47.83   | 11         | 8.85   | 0.73    | 395.2  | 23.4675   |
| 09/03/2017 | 12:11:00 | 50.8       | 54.3    | 9.29    | 47.86   | 9.8        | 8.84   | 0.26    | 395.2  | 22.4175   |
| 09/03/2017 | 12:12:00 | 49.5       | 53.37   | 9.24    | 47.47   | 9.9        | 8.83   | 0.83    | 389.8  | 22.4175   |
| 09/03/2017 | 12:13:00 | 47.5       | 53.7    | 9.18    | 47.42   | 10.5       | 9.06   | 1.17    | 391.9  | 22.60125  |
| 09/03/2017 | 12:14:00 | 47.8       | 52.99   | 9.22    | 47.46   | 10.4       | 9.05   | 1.3     | 395.4  | 23.1      |
| 09/03/2017 | 12:15:00 | 47.2       | 53.65   | 9.27    | 47.54   | 10.3       | 8.97   | 0.35    | 398.8  | 23.4675   |
| 09/03/2017 | 12:16:00 | 47.2       | 54.73   | 9.29    | 47.56   | 10.7       | 8.94   | 0.77    | 394.9  | 23.3625   |
| 09/03/2017 | 12:17:00 | 48.5       | 54.65   | 9.26    | 47.68   | 10.7       | 8.92   | 0.58    | 390.6  | 23.38875  |
| 09/03/2017 | 12:18:00 | 49.8       | 53.31   | 9.25    | 47.73   | 11.1       | 8.96   | 0.42    | 390.6  | 23.65125  |
| 09/03/2017 | 12:19:00 | 50.4       | 52.2    | 9.31    | 47.88   | 10.6       | 8.85   | 0.33    | 390.6  | 23.65125  |
| 09/03/2017 | 12:20:00 | 46.2       | 53.05   | 9.23    | 47.62   | 10.7       | 8.92   | 0.17    | 387.3  | 22.68     |
| 09/03/2017 | 12:21:00 | 45.3       | 53.7    | 9.22    | 47.61   | 11         | 9      | 1.36    | 387.3  | 23.33625  |
| 09/03/2017 | 12:22:00 | 45.6       | 51.72   | 9.3     | 47.87   | 10.9       | 8.99   | 0.61    | 390.6  | 22.3125   |
| 09/03/2017 | 12:23:00 | 47.1       | 51.73   | 9.28    | 47.81   | 11         | 8.9    | 1.05    | 390.6  | 23.6775   |
| 09/03/2017 | 12:24:00 | 46.3       | 51.8    | 9.28    | 47.69   | 10.7       | 8.9    | 1.36    | 391.7  | 22.575    |
| 09/03/2017 | 12:25:00 | 42.9       | 51.53   | 9.24    | 47.41   | 11.1       | 8.91   | 1.52    | 400.5  | 22.995    |
| 09/03/2017 | 12:26:00 | 43.6       | 52.5    | 9.23    | 47.46   | 10.8       | 8.99   | 1.55    | 405.6  | 23.5725   |
| 09/03/2017 | 12:27:00 | 44.3       | 53.68   | 9.23    | 47.5    | 10.7       | 8.88   | 1.23    | 405.3  | 22.9425   |
| 09/03/2017 | 12:28:00 | 43.6       | 53.91   | 9.16    | 47.21   | 9.9        | 8.92   | 0.8     | 400.7  | 22.575    |
| 09/03/2017 | 12:29:00 | 44.6       | 55.48   | 9.16    | 47.16   | 10.5       | 9.14   | 0.95    | 399.5  | 23.0475   |
| 09/03/2017 | 12:30:00 | 48.5       | 55.23   | 9.22    | 47.38   | 10         | 9.09   | 1.6     | 400.7  | 23.59875  |
| 09/03/2017 | 12:31:00 | 48.7       | 55.78   | 9.25    | 47.49   | 10.7       | 9.02   | 1.6     | 400.7  | 22.49625  |
| 09/03/2017 | 12:32:00 | 49.2       | 56.31   | 9.32    | 47.83   | 9.8        | 8.96   | 1.72    | 407.1  | 22.65375  |
| 09/03/2017 | 12:33:00 | 49.9       | 54.69   | 9.26    | 47.65   | 10.9       | 8.92   | 1.9     | 405    | 22.39125  |
| 09/03/2017 | 12:34:00 | 48.7       | 54.2    | 9.26    | 47.48   | 9.9        | 8.93   | 1.5     | 405    | 22.47     |
| 09/03/2017 | 12:35:00 | 47.6       | 54.98   | 9.26    | 47.63   | 10.1       | 8.9    | 1.33    | 403    | 23.65125  |
| 09/03/2017 | 12:36:00 | 46         | 55.01   | 9.22    | 47.31   | 9.3        | 9      | 0.57    | 401.7  | 23.6775   |
| 09/03/2017 | 12:37:00 | 46.3       | 54.4    | 9.15    | 47.11   | 10.6       | 9.14   | 0.93    | 401.7  | 22.785    |
| 09/03/2017 | 12:38:00 | 46.9       | 54.57   | 9.15    | 47.18   | 9.8        | 9.15   | 1.36    | 401.7  | 23.33625  |
| 09/03/2017 | 12:39:00 | 47.7       | 54.68   | 9.24    | 47.43   | 10.6       | 9.09   | 1.57    | 406.5  | 22.5225   |
| 09/03/2017 | 12:40:00 | 48.1       | 54.07   | 9.27    | 47.61   | 9.3        | 9.06   | 1.67    | 408.1  | 22.44375  |
| 09/03/2017 | 12:41:00 | 47.9       | 53.52   | 9.23    | 47.48   | 11.2       | 8.97   | 1.76    | 409    | 23.6775   |
| 09/03/2017 | 12:42:00 | 49.9       | 53.92   | 9.28    | 47.73   | 9.4        | 9      | 1.11    | 413.3  | 23.65125  |
| 09/03/2017 | 12:43:00 | 47.7       | 54.29   | 9.25    | 47.57   | 10.1       | 8.88   | 1.36    | 412.2  | 23.65125  |
| 09/03/2017 | 12:44:00 | 46.7       | 52.66   | 9.13    | 46.98   | 8.9        | 9      | 0.46    | 404.9  | 23.73     |
| 09/03/2017 | 12:45:00 | 50.9       | 52.64   | 9.2     | 47.28   | 10.2       | 9.09   | 0.67    | 404.9  | 22.785    |
| 09/03/2017 | 12:46:00 | 52.5       | 53.08   | 9.25    | 47.42   | 9.5        | 9.04   | 1.16    | 406.7  | 23.65125  |
| 09/03/2017 | 12:47:00 | 51.9       | 51.73   | 9.27    | 47.59   | 10.5       | 8.96   | 1.33    | 407.9  | 22.7325   |
| 09/03/2017 | 12:48:00 | 53.3       | 51.65   | 9.3     | 47.74   | 9.3        | 8.94   | 1.38    | 411.7  | 23.5725   |
| 09/03/2017 | 12:49:00 | 52.4       | 50.63   | 9.23    | 47.43   | 10.8       | 8.91   | 1.63    | 409    | 23.70375  |
| 09/03/2017 | 12:50:00 | 53         | 49.55   | 9.25    | 47.57   | 9.2        | 8.93   | 0.92    | 412    | 22.33875  |
| 09/03/2017 | 12:51:00 | 52.1       | 49.63   | 9.26    | 47.5    | 9.7        | 8.85   | 1.08    | 413    | 23.59875  |
| 09/03/2017 | 12:52:00 | 50.4       | 49.34   | 9.2     | 47.18   | 9.4        | 9.06   | 0.36    | 409.7  | 23.415    |
| 09/03/2017 | 12:53:00 | 49.4       | 49.8    | 9.21    | 47.16   | 10.5       | 9.07   | 0.42    | 408.7  | 23.65125  |

| March 9/2017 | Analyzers |          |          |          |          |          |          |          |             | Flows |
|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------|
|              | CO        | HCl      | CO2      | H2O      | THC      | O2       | Opacity  | SO2      | PACFlow     |       |
| Test 3       | AT-205    | AT-213A  | AT-213B  | AT-213C  | AT-259   | AT-261   | AT-263   | AT-264   | SC-PAC-FT   |       |
| Max          | 53.3      | 58.3     | 9.3      | 48.0     | 11.6     | 9.2      | 1.9      | 413.3    | 23.7        |       |
| Min          | 42.9      | 49.3     | 9.1      | 47.0     | 8.9      | 8.8      | 0.1      | 387.3    | 22.3        |       |
| Average      | 48.5      | 54.1     | 9.2      | 47.6     | 10.3     | 9.0      | 1.0      | 399.2    | 23.1        |       |
| Variance     | 5.323126  | 4.444601 | 0.001921 | 0.046707 | 0.374727 | 0.007592 | 0.243042 | 54.56817 | 0.248844191 |       |

Test No. 4

| SDate      | STime    | Rich   | Emulsion | Lean     | Alkaline | TDU Flow | TDU Flow | Leachate | Primary  | Secondary | Stack   | Primary   | Secondary | Quench    | SDA       | Stack     | Incinerator | SDA Inlet | BH Inlet | BH dP    |
|------------|----------|--------|----------|----------|----------|----------|----------|----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|----------|----------|
|            |          | LPM    | LPM      | LPM      | LPM      | LPM      | SCFM     | LPM      | m3/h     | m3/h      | m3/h    | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | mmH2O       | mmH2O     | mmH2O    | mmH2O    |
|            |          | FT-229 | FT-219C  | FT-223   | PV-207   | FT-313B  | FT-313   | PV-211   | PV-236   | PV-209    | FT-260C | TE-240    | TE-241    | TE-203    | TE-204    | TE-258    | PT-242A     | PT-249    | PT-615   | PDT-622  |
| 09/03/2017 | 13:07:00 | 25.605 | 12.66    | 188.3363 | 174.285  | 1.21375  | 72.825   | 19.6125  | 26479    | 15488.83  | 99289   | 1350.5    | 867.2     | 489.9     | 201.5     | 196.8     | -36.05      | -88.75    | -138.15  | 251.125  |
| 09/03/2017 | 13:08:00 | 25.2   | 13.11    | 189.7538 | 175.68   | 1.1875   | 71.25    | 19.6125  | 25773.92 | 15398.94  | 95127   | 1347.375  | 869       | 489.7     | 201.5     | 196.5     | -12.75      | -58       | -105.15  | 263.5    |
| 09/03/2017 | 13:09:00 | 25.815 | 13.025   | 188.7525 | 174.465  | 1.43875  | 86.325   | 19.6125  | 26485.91 | 15505.68  | 96291   | 1347.875  | 870.4     | 488.7     | 201       | 195.4     | -22.4       | -67.75    | -120.338 | 278.875  |
| 09/03/2017 | 13:10:00 | 25.53  | 12.69    | 187.7625 | 175.95   | 1.105    | 66.3     | 19.6125  | 25511.25 | 15466.35  | 95962   | 1347.375  | 866.9     | 488.1     | 200.5     | 195.9     | -10.6       | -55.7     | -101.438 | 284.1875 |
| 09/03/2017 | 13:11:00 | 25.65  | 12.8     | 190.1813 | 175.935  | 0.40125  | 24.075   | 19.6125  | 26568.86 | 15606.8   | 97762   | 1347.75   | 867.9     | 487.7     | 199.5     | 195.9     | -30.75      | -76.9     | -128.963 | 277.625  |
| 09/03/2017 | 13:12:00 | 25.62  | 13.19    | 188.4262 | 175.41   | 0.55875  | 33.525   | 19.6125  | 25594.2  | 15398.94  | 94167   | 1345.75   | 865.9     | 486.9     | 199.5     | 195.7     | -8.6        | -53.15    | -98.25   | 292.375  |
| 09/03/2017 | 13:13:00 | 25.335 | 13.015   | 189.7087 | 174.465  | 0.60375  | 36.225   | 19.6125  | 26568.86 | 15556.24  | 98777   | 1344.625  | 867.5     | 486.1     | 198.5     | 195.6     | -35.75      | -86.6     | -138.038 | 256.25   |
| 09/03/2017 | 13:14:00 | 25.41  | 12.86    | 189.09   | 175.05   | 0.89625  | 53.775   | 19.6125  | 25773.92 | 15455.12  | 95313   | 1337.5    | 864.1     | 486.3     | 198.5     | 194.6     | -16.15      | -63.05    | -109.163 | 277.3125 |
| 09/03/2017 | 13:15:00 | 25.53  | 12.995   | 187.9088 | 174.555  | 0.26375  | 15.825   | 19.6125  | 26306.19 | 15516.92  | 96142   | 1336.625  | 864.9     | 485       | 198       | 194.4     | -24.85      | -73.25    | -122.1   | 258.9375 |
| 09/03/2017 | 13:16:00 | 26.7   | 12.795   | 188.1    | 175.5    | 0.98     | 58.8     | 19.6125  | 25601.11 | 15297.81  | 95163   | 1339.75   | 866.5     | 484.7     | 198       | 194.8     | -13.15      | -62.05    | -106.313 | 263      |
| 09/03/2017 | 13:17:00 | 26.625 | 12.715   | 188.8988 | 172.53   | 0.5425   | 32.55    | 19.6125  | 26036.6  | 15370.85  | 95276   | 1344.875  | 864.4     | 485       | 198       | 195.3     | -18.8       | -66.8     | -113.738 | 280.5    |
| 09/03/2017 | 13:18:00 | 26.34  | 12.69    | 188.28   | 173.32   | 0.7075   | 42.45    | 19.6125  | 25511.25 | 15370.85  | 95962   | 1351.5    | 867.3     | 485.9     | 198.5     | 193.6     | -10.45      | -57.35    | -100.238 | 283.1875 |
| 09/03/2017 | 13:19:00 | 26.505 | 12.685   | 188.9437 | 175.20   | 1.33875  | 80.325   | 19.6125  | 26389.14 | 15623.66  | 95243   | 1356.625  | 865.5     | 486.7     | 198.5     | 193.8     | -17.75      | -65.45    | -112.688 | 284.9375 |
| 09/03/2017 | 13:20:00 | 27.105 | 13.02    | 188.145  | 176.4    | 0.81375  | 48.825   | 19.6125  | 25594.2  | 15219.16  | 94196   | 1359.75   | 863.2     | 486.9     | 199       | 193.8     | -6.9        | -54.1     | -97.65   | 291.875  |
| 09/03/2017 | 13:21:00 | 26.7   | 12.71    | 187.7625 | 176.175  | 1.06375  | 63.825   | 19.6125  | 26479    | 15488.83  | 97015   | 1358.875  | 865.2     | 486.8     | 198.5     | 194.1     | -26.05      | -72.7     | -124.763 | 271.5625 |
| 09/03/2017 | 13:22:00 | 26.58  | 12.905   | 190.4175 | 176.94   | 0        | 0        | 19.6125  | 25946.74 | 15353.99  | 96487   | 1355      | 864.8     | 487       | 198.5     | 194.1     | -16.45      | -62.6     | -106.95  | 279.125  |
| 09/03/2017 | 13:23:00 | 26.61  | 12.68    | 188.0437 | 175.455  | 0        | 0        | 19.6125  | 26485.91 | 15494.44  | 95327   | 1354.125  | 865.4     | 485.8     | 198       | 194.1     | -22.75      | -70.35    | -117.9   | 257.75   |
| 09/03/2017 | 13:24:00 | 26.91  | 12.87    | 189.405  | 176.67   | 0        | 0        | 19.3875  | 25856.88 | 15376.47  | 94804   | 1352.25   | 863.9     | 484.2     | 197.5     | 194       | -14.25      | -60.4     | -106.65  | 263.875  |
| 09/03/2017 | 13:25:00 | 26.775 | 12.635   | 189.4162 | 175.725  | 0        | 0        | 19.3875  | 26133.38 | 15449.5   | 95459   | 1348.25   | 863.3     | 483.2     | 196.5     | 193.6     | -16.4       | -61.85    | -110.363 | 279      |
| 09/03/2017 | 13:26:00 | 26.25  | 12.815   | 189.8438 | 175.86   | 0        | 0        | 19.3875  | 25773.92 | 15449.5   | 95188   | 1349.375  | 864.3     | 482.5     | 196       | 193.3     | -11.85      | -56.85    | -102.375 | 285      |
| 09/03/2017 | 13:27:00 | 26.91  | 12.975   | 189.9    | 175.275  | 5.1175   | 307.05   | 19.3875  | 26036.6  | 15466.35  | 95112   | 1346.375  | 864       | 482.4     | 195.5     | 192.3     | -12.85      | -59.2     | -108.563 | 284.5    |
| 09/03/2017 | 13:28:00 | 26.61  | 12.935   | 188.8088 | 176.4    | 4.02375  | 241.425  | 19.3875  | 25331.52 | 15325.9   | 93461   | 1351      | 862.5     | 484.9     | 196       | 192.8     | -6.15       | -50.95    | -96.975  | 293.5625 |
| 09/03/2017 | 13:29:00 | 26.775 | 12.655   | 188.0437 | 174.69   | 3.93     | 235.8    | 19.3875  | 26216.32 | 15466.35  | 95193   | 1350.875  | 866.4     | 487.5     | 197       | 192.8     | -23.1       | -72.35    | -121.125 | 276.8125 |
| 09/03/2017 | 13:30:00 | 26.355 | 12.81    | 187.6725 | 174.96   | 3.875    | 232.5    | 19.3875  | 25601.11 | 15286.58  | 95506   | 1351.75   | 863.6     | 489.1     | 198       | 193.5     | -14.5       | -60.6     | -108.975 | 281.875  |
| 09/03/2017 | 13:31:00 | 26.79  | 12.68    | 189.3262 | 175.555  | 3.61875  | 217.125  | 19.3875  | 25946.74 | 15415.79  | 95399   | 1347.125  | 864.4     | 489.7     | 199       | 193.6     | -17.3       | -64.5     | -114.45  | 258.4375 |
| 09/03/2017 | 13:32:00 | 26.985 | 12.975   | 189.99   | 176.985  | 3.2375   | 194.25   | 19.3875  | 25684.06 | 15269.72  | 95151   | 1348.625  | 866.2     | 490       | 199.5     | 193.2     | -11.6       | -58.15    | -104.663 | 265.375  |
| 09/03/2017 | 13:33:00 | 26.265 | 12.855   | 189.5625 | 175.815  | 3.08625  | 185.175  | 19.3875  | 25953.65 | 15483.21  | 96693   | 1347.625  | 862.9     | 490.1     | 199.5     | 193       | -13.85      | -61.1     | -106.35  | 278.75   |
| 09/03/2017 | 13:34:00 | 26.835 | 12.85    | 187.9537 | 177.615  | 3.06875  | 184.125  | 20.4     | 25684.06 | 15353.99  | 94369   | 1353.25   | 864.3     | 489.6     | 199.5     | 194.5     | -8.6        | -56       | -100.875 | 287.5625 |
| 09/03/2017 | 13:35:00 | 27.045 | 12.99    | 188.0437 | 175.905  | 2.92125  | 175.275  | 20.4     | 25511.25 | 15376.47  | 95372   | 1349.875  | 863.8     | 489.4     | 199.5     | 193.8     | -10.25      | -56.9     | -104.1   | 283.75   |
| 09/03/2017 | 13:36:00 | 26.685 | 13.02    | 189.6525 | 176.22   | 2.93375  | 176.025  | 20.4     | 25684.06 | 15252.87  | 95239   | 1353.75   | 863.9     | 489       | 199       | 193.8     | -4.45       | -49.6     | -95.475  | 294.5625 |
| 09/03/2017 | 13:37:00 | 26.295 | 12.78    | 189.2813 | 176.49   | 2.83125  | 169.875  | 20.4     | 26126.46 | 15528.15  | 96459   | 1349.625  | 862.7     | 489.1     | 199       | 193.1     | -19.6       | -68.3     | -115.35  | 276.9375 |
| 09/03/2017 | 13:38:00 | 26.835 | 12.745   | 188.8088 | 176.4    | 2.93375  | 176.025  | 19.3125  | 25863.79 | 15303.43  | 95971   | 1351.375  | 863.4     | 488.8     | 199       | 193.2     | -12.1       | -58.2     | -106.463 | 282.4375 |
| 09/03/2017 | 13:39:00 | 26.715 | 12.92    | 188.8438 | 174.645  | 2.7475   | 164.85   | 19.3125  | 25863.79 | 15269.72  | 95864   | 1347.5    | 861.9     | 488.9     | 199       | 193.5     | -15.2       | -61.65    | -111.375 | 258.3125 |
| 09/03/2017 | 13:40:00 | 26.58  | 12.545   | 188.235  | 175.5    | 2.9475   | 176.85   | 19.3125  | 25601.11 | 15309.05  | 94602   | 1347.25   | 862.8     | 488.2     | 199.5     | 193.5     | -12.2       | -58.45    | -105.713 | 268.75   |
| 09/03/2017 | 13:41:00 | 26.625 | 12.74    | 189.7987 | 176.175  | 2.9225   | 175.35   | 19.3125  | 25863.79 | 15303.43  | 96012   | 1345      | 864       | 488.2     | 199.5     | 194       | -11.3       | -57.7     | -105.525 | 280.375  |
| 09/03/2017 | 13:42:00 | 26.82  | 12.94    | 188.235  | 174.195  | 2.9      | 174      | 19.3125  | 25863.79 | 15174.22  | 94114   | 1349.625  | 863.9     | 487.7     | 199       | 194       | -9.7        | -54       | -101.438 | 288.9375 |
| 09/03/2017 | 13:43:00 | 26.535 | 13.065   | 189.99   | 174.465  | 2.8825   | 172.95   | 19.3125  | 25601.11 | 15342.76  | 95073   | 1347      | 863.6     | 486.9     | 198.5     | 194       | -10.5       | -56.45    | -102.975 | 284.5    |
| 09/03/2017 | 13:44:00 | 25.965 | 12.48    | 189.2362 | 174.015  | 2.88125  | 172.875  | 20.325   | 25601.11 | 15207.99  | 93742   | 1353.25   | 861.8     | 486.1     | 198       | 192.9     | -4.55       | -48.35    | -97.125  | 294.625  |
| 09/03/2017 | 13:45:00 | 27.135 | 12.82    | 188.462  | 173.88   | 2.9925   | 179.55   | 20.325   | 26036.6  | 15376.47  | 95976   | 1345.75   | 861.7     | 485.7     | 198       | 192.8     | -17.1       | -61.7     | -113.325 | 273.9375 |
| 09/03/2017 | 13:46:00 | 26.97  | 12.715   | 189      | 174.735  | 2.90625  | 174.375  | 20.325   | 25690.97 | 15236.02  | 96084   | 1346.125  | 863       | 485.5     | 198       | 192.2     | -13.3       | -59.3     | -106.463 | 281.0625 |
| 09/03/2017 | 13:47:00 | 26.415 | 12.9     | 188.6625 | 175.905  | 2.845    | 170.7    | 20.325   | 25863.79 | 15292.2   | 94892   | 1343.125  | 861.7     | 485.2     | 198       | 192.6     | -16.1       | -62.5     | -109.8   | 256.625  |
| 09/03/2017 | 13:48:00 | 26.535 | 12.66    | 188.6175 | 175.185  | 2.86375  | 171.825  | 20.1     | 25863.79 | 15410.17  | 95462   | 1347.125  | 859.2     | 484.8     | 198       | 192.9     | -12.1       | -60.8     | -104.85  | 252.625  |
| 09/03/2017 | 13:49:00 | 26.97  | 12.84    | 187.5712 | 176.58   | 2.79     | 167.4    | 20.1     | 25684.06 | 15292.2   | 95033   | 1344.375  | 860.8     | 484.8     | 197.5     | 192.9     | -14.8       | -62.65    | -106.913 | 279.875  |
| 09/03/2017 | 13:50:00 | 26.73  | 13.035   | 188.3363 | 175.635  | 2.88     | 172.8    | 20.1     | 25690.97 | 15275.34  | 96869   | 1350.5    | 859.7     | 484.1     | 197.5     | 192.9     | -15.05      | -71.1     | -112.875 | 248.75   |
| 09/03/2017 | 13:51:00 | 26.79  | 13.585   | 190.08   | 176.445  | 2.91875  | 175.125  | 20.1     | 25594.2  | 15370.85  | 94389   | 1346.875  | 861.5     | 485       | 197.5     | 193.4     | -10.65      | -58.95    | -102.75  | 285.5625 |
| 09/03/2017 | 13:52:00 | 26.85  | 13.225   | 187.8525 | 175.41   | 2.87875  | 172.725  | 20.1     | 25511.25 | 15247.25  | 99719   | 1354      | 862.8     | 485       | 197       | 192.1     | -29.45      | -84.9     | -127.425 | 244.875  |
| 09/03/2017 | 13:53:00 | 26.76  | 13.725   | 189.18   | 175.14   | 2.925    | 175.5    | 20.1     | 26126.46 | 15376.47  | 95682   | 1345.375  | 860.8     | 485.9     | 197.5     | 193       | -17.75      | -65.35    | -112.013 | 273.6875 |
| 09/03/2017 | 13:54:00 | 26.745 | 13.955   | 189.3262 | 174.24   | 2.8825   | 172.95   | 20.1     | 26036.6  | 15359.61  | 101101  | 1346.875  | 861.3     | 487       | 198       | 192.6     | -33.7       | -87       | -135.825 | 234.75   |
| 09/03/2017 | 13:55:00 | 26.475 | 13.94    | 189.4725 | 175.185  | 2.87625  | 172.575  | 20.1     | 26036.6  | 15258.49  | 96475   | 1343.5    | 859.7     | 488.5     | 199       | 192.9     | -15.5       | -64.15    | -111.075 | 258.75   |
| 09/03/2017 | 13:56:00 | 26.67  | 14.165   | 187.5712 |          |          |          |          |          |           |         |           |           |           |           |           |             |           |          |          |

Test No. 4

| Date       | Time     | CO         | HCl     | CO2     | H2O     | THC        | O2     | Opacity | SO3    | PAC       |
|------------|----------|------------|---------|---------|---------|------------|--------|---------|--------|-----------|
|            |          | PPM        | PPM     | %       | %       | PPM        | %      | %       | PPM    | Lbs/h     |
| \$Date     | \$Time   | AT-205CORR | AT-213A | AT-213B | AT-213C | AT-259CORR | AT-261 | AT-263  | AT-264 | SC-PAC-FT |
| 09/03/2017 | 13:07:00 | 54.1       | 48.76   | 9.13    | 47.45   | 10.3       | 9.1    | 1.07    | 407.2  | 23.73     |
| 09/03/2017 | 13:08:00 | 54.4       | 49      | 9.09    | 47.13   | 10.2       | 9.24   | 0.2     | 403.5  | 22.54875  |
| 09/03/2017 | 13:09:00 | 55.5       | 48.83   | 9.11    | 47.24   | 10.2       | 9.24   | 1.61    | 401.7  | 23.2575   |
| 09/03/2017 | 13:10:00 | 58.4       | 49.05   | 9.12    | 47.35   | 10.6       | 9.22   | 0.95    | 399.6  | 22.3125   |
| 09/03/2017 | 13:11:00 | 60.4       | 47.73   | 9.14    | 47.48   | 10.5       | 9.19   | 1.28    | 397.4  | 23.44125  |
| 09/03/2017 | 13:12:00 | 59.7       | 46.53   | 9.1     | 47.47   | 10.4       | 9.11   | 1.27    | 397.4  | 23.4675   |
| 09/03/2017 | 13:13:00 | 61.9       | 45.23   | 8.98    | 47.11   | 10.9       | 9.2    | 1.21    | 389.5  | 22.785    |
| 09/03/2017 | 13:14:00 | 67.2       | 45.01   | 9.04    | 47.28   | 10.1       | 9.14   | 0.73    | 390.7  | 22.44375  |
| 09/03/2017 | 13:15:00 | 67.5       | 44.13   | 8.99    | 47.18   | 10.4       | 9.27   | 0.67    | 388.3  | 22.91625  |
| 09/03/2017 | 13:16:00 | 69.8       | 43.77   | 8.95    | 47.04   | 10.6       | 9.47   | 0.26    | 385.2  | 23.70375  |
| 09/03/2017 | 13:17:00 | 69.5       | 44.42   | 8.99    | 47.11   | 10.6       | 9.41   | 1.12    | 388.3  | 22.4175   |
| 09/03/2017 | 13:18:00 | 67.2       | 44.37   | 9.11    | 47.31   | 10.7       | 9.21   | 0.88    | 401.8  | 22.33875  |
| 09/03/2017 | 13:19:00 | 64.1       | 43.31   | 9.22    | 47.5    | 10.1       | 9.07   | 1.07    | 411.3  | 23.54625  |
| 09/03/2017 | 13:20:00 | 62.9       | 42.85   | 9.22    | 47.43   | 10.3       | 9.02   | 1.3     | 411.3  | 23.0475   |
| 09/03/2017 | 13:21:00 | 63.2       | 42.8    | 9.2     | 47.53   | 10.3       | 9.1    | 1.03    | 413.4  | 22.89     |
| 09/03/2017 | 13:22:00 | 63.7       | 43.18   | 9.22    | 47.74   | 9.7        | 9.05   | 0.71    | 412    | 23.23125  |
| 09/03/2017 | 13:23:00 | 62.9       | 42.67   | 9.08    | 47.36   | 9.6        | 9.21   | 0.32    | 397.3  | 23.65125  |
| 09/03/2017 | 13:24:00 | 65.9       | 42.36   | 8.97    | 47.18   | 10         | 9.37   | 0.13    | 387.8  | 22.5225   |
| 09/03/2017 | 13:25:00 | 74.8       | 41.88   | 8.92    | 47.16   | 9.9        | 9.49   | 0.71    | 380.6  | 23.49375  |
| 09/03/2017 | 13:26:00 | 81.5       | 41.91   | 8.96    | 47.28   | 10.1       | 9.4    | 0.98    | 379.3  | 23.2575   |
| 09/03/2017 | 13:27:00 | 82.6       | 41.66   | 8.98    | 47.29   | 10.4       | 9.39   | 1.07    | 377.9  | 22.65375  |
| 09/03/2017 | 13:28:00 | 76.8       | 40.18   | 8.99    | 47.1    | 11.5       | 9.37   | 1.2     | 383.9  | 22.3125   |
| 09/03/2017 | 13:29:00 | 70.7       | 39.89   | 9.05    | 47.1    | 11.1       | 9.24   | 0.76    | 396.1  | 23.73     |
| 09/03/2017 | 13:30:00 | 61.5       | 41.05   | 9.2     | 47.21   | 9.9        | 8.9    | 0.76    | 411.5  | 23.415    |
| 09/03/2017 | 13:31:00 | 53.2       | 42.99   | 9.12    | 47.03   | 9.9        | 9.1    | 0.05    | 410.4  | 23.44125  |
| 09/03/2017 | 13:32:00 | 54.3       | 43.28   | 9.1     | 46.87   | 10.7       | 9.18   | 0.35    | 410.4  | 23.07375  |
| 09/03/2017 | 13:33:00 | 58.3       | 44.24   | 9.14    | 47.08   | 9.8        | 9.17   | 0.71    | 412.8  | 23.75625  |
| 09/03/2017 | 13:34:00 | 59.2       | 45.41   | 9.2     | 47.15   | 11         | 9.13   | 0.92    | 411.3  | 23.59875  |
| 09/03/2017 | 13:35:00 | 64.2       | 44.23   | 9.22    | 47.39   | 9.6        | 9.09   | 1.05    | 411.3  | 23.1525   |
| 09/03/2017 | 13:36:00 | 64.7       | 43.71   | 9.16    | 47.2    | 10.9       | 9.03   | 1.21    | 407.7  | 23.65125  |
| 09/03/2017 | 13:37:00 | 66.9       | 46.13   | 9.18    | 47.3    | 10         | 9.14   | 0.61    | 408.3  | 22.47     |
| 09/03/2017 | 13:38:00 | 67.1       | 45.16   | 9.16    | 47.32   | 10.8       | 9.09   | 0.51    | 404.9  | 23.70375  |
| 09/03/2017 | 13:39:00 | 65.7       | 43.1    | 9.09    | 47.13   | 10         | 9.18   | 1.51    | 402.8  | 22.47     |
| 09/03/2017 | 13:40:00 | 67.5       | 43.89   | 9.05    | 47.01   | 11         | 9.3    | 0.26    | 401.5  | 22.4175   |
| 09/03/2017 | 13:41:00 | 70.2       | 45.44   | 9.1     | 47.01   | 9.9        | 9.18   | 0.68    | 404    | 22.28625  |
| 09/03/2017 | 13:42:00 | 70.6       | 45.09   | 9.12    | 47.07   | 11         | 9.17   | 0.96    | 404    | 23.38875  |
| 09/03/2017 | 13:43:00 | 71.8       | 44.61   | 9.14    | 47.16   | 9.6        | 9.11   | 1.05    | 401.1  | 23.4675   |
| 09/03/2017 | 13:44:00 | 71         | 44.18   | 9.07    | 47.05   | 11.4       | 9.14   | 1.21    | 399.3  | 22.365    |
| 09/03/2017 | 13:45:00 | 74.8       | 42.79   | 9.12    | 47.21   | 9.7        | 9.17   | 0.55    | 402.7  | 23.0475   |
| 09/03/2017 | 13:46:00 | 74.7       | 43.04   | 9.08    | 47.11   | 10.8       | 9.07   | 0.8     | 400.8  | 23.49375  |
| 09/03/2017 | 13:47:00 | 70.7       | 44.41   | 8.99    | 46.81   | 10         | 9.26   | 1.46    | 394.7  | 23.1525   |
| 09/03/2017 | 13:48:00 | 72.9       | 43.34   | 9.05    | 46.97   | 11.2       | 9.31   | 0.11    | 394.7  | 22.575    |
| 09/03/2017 | 13:49:00 | 72.6       | 43.36   | 9.09    | 47.07   | 10.4       | 9.27   | 0.7     | 398.1  | 23.49375  |
| 09/03/2017 | 13:50:00 | 74.7       | 43.97   | 9.13    | 47.11   | 11.4       | 9.14   | 0.82    | 398.1  | 23.6775   |
| 09/03/2017 | 13:51:00 | 77.6       | 43.79   | 9.17    | 47.3    | 10         | 9.14   | 1.02    | 403.1  | 23.31     |
| 09/03/2017 | 13:52:00 | 73.7       | 42.77   | 9.12    | 47.23   | 11.4       | 9.13   | 1.23    | 406.4  | 22.44375  |
| 09/03/2017 | 13:53:00 | 72.8       | 42.65   | 9.18    | 47.34   | 9.6        | 9.05   | 0.55    | 408.8  | 22.39125  |
| 09/03/2017 | 13:54:00 | 69.9       | 41.64   | 9.13    | 47.29   | 10.4       | 9.11   | 0.82    | 405.9  | 22.65375  |
| 09/03/2017 | 13:55:00 | 61         | 42.53   | 9.08    | 46.87   | 9.9        | 9.27   | 1.55    | 406.6  | 23.54625  |
| 09/03/2017 | 13:56:00 | 61         | 43.03   | 9.12    | 46.96   | 10.4       | 9.24   | 0.57    | 411.9  | 22.49625  |
| 09/03/2017 | 13:57:00 | 62.6       | 43.29   | 9.18    | 47.21   | 10.2       | 9.14   | 0.78    | 419.1  | 22.81125  |
| 09/03/2017 | 13:58:00 | 62.4       | 44.46   | 9.21    | 47.19   | 10.6       | 9.12   | 1.01    | 418.1  | 22.7325   |
| 09/03/2017 | 13:59:00 | 59.1       | 44.63   | 9.23    | 47.21   | 9.7        | 8.99   | 1.05    | 418.1  | 23.17875  |
| 09/03/2017 | 14:00:00 | 60.2       | 45.5    | 9.2     | 47.21   | 11.4       | 9.06   | 1.26    | 415.9  | 23.1525   |
| 09/03/2017 | 14:01:00 | 63         | 45.95   | 9.26    | 47.4    | 9.5        | 9.02   | 0.55    | 419.1  | 23.49375  |
| 09/03/2017 | 14:02:00 | 57.2       | 44.7    | 9.14    | 47.03   | 10.1       | 8.92   | 1.11    | 415.4  | 23.4675   |
| 09/03/2017 | 14:03:00 | 54         | 45.92   | 9.1     | 46.96   | 9.9        | 9.04   | 0.11    | 411.6  | 22.995    |
| 09/03/2017 | 14:04:00 | 57.4       | 47.34   | 9.15    | 47.16   | 10.5       | 9.13   | 0.71    | 410.4  | 22.5225   |
| 09/03/2017 | 14:05:00 | 58.5       | 46.51   | 9.21    | 47.27   | 10         | 9.04   | 0.73    | 411.9  | 23.59875  |
| 09/03/2017 | 14:06:00 | 58.7       | 45.75   | 9.24    | 47.35   | 10.6       | 9.03   | 0.92    | 413.5  | 22.9425   |
| 09/03/2017 | 14:07:00 | 61.7       | 46.33   | 9.22    | 47.25   | 10.4       | 8.97   | 1.02    | 417.3  | 22.785    |

| March 9/2017 | Analyzers |         |          |          |          |          |          |          |           | Flows       |
|--------------|-----------|---------|----------|----------|----------|----------|----------|----------|-----------|-------------|
|              | CO        | HCl     | CO2      | H2O      | THC      | O2       | Opacity  | SO2      | PAC       | Flow        |
| Test 4       | AT-205    | AT-213A | AT-213B  | AT-213C  | AT-259   | AT-261   | AT-263   | AT-264   | SC-PAC-FT |             |
| Max          | 82.6      | 49.1    | 9.3      | 47.7     | 11.5     | 9.5      | 1.6      | 419.1    |           | 23.8        |
| Min          | 53.2      | 39.9    | 8.9      | 46.8     | 9.5      | 8.9      | 0.1      | 377.9    |           | 22.3        |
| Average      | 65.4      | 44.3    | 9.1      | 47.2     | 10.4     | 9.2      | 0.8      | 403.4    |           | 23.1        |
| Variance     | 50.52984  | 4.08981 | 0.006872 | 0.030732 | 0.278721 | 0.016145 | 0.141254 | 108.5174 |           | 0.231453835 |



Test No. 5

| SDate      | STime    | Rich   | Emulsion | Lean     | Alkaline | TDU Flow | TDU Flow | Leachate | Primary  | Secondary | Stack   | Primary   | Secondary | Quench    | SDA       | Stack     | Incinerator | SDA Inlet | BH Inlet | BH dP    |
|------------|----------|--------|----------|----------|----------|----------|----------|----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|----------|----------|
|            |          | LPM    | LPM      | LPM      | LPM      | LPM      | SCFM     | LPM      | m3/h     | m3/h      | m3/h    | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | mmH2O       | mmH2O     | mmH2O    | mmH2O    |
|            |          | FT-229 | FT-219C  | FT-223   | PV-207   | FT-313B  | FT-313   | PV-211   | PV-236   | PV-209    | FT-260C | TE-240    | TE-241    | TE-203    | TE-204    | TE-258    | PT-242A     | PT-249    | PT-615   | PDT-622  |
| 09/03/2017 | 14:20:00 | 26.775 | 14.31    | 189.4162 | 174.285  | 2.73625  | 164.175  | 20.1     | 25773.92 | 15196.69  | 95763   | 1355.625  | 865.4     | 492.8     | 202.5     | 194.9     | -14.1       | -62.45    | -108.975 | 280.6875 |
| 09/03/2017 | 14:21:00 | 27.06  | 14.385   | 188.5162 | 176.085  | 2.8275   | 169.65   | 20.1     | 25511.25 | 15213.54  | 95045   | 1357.125  | 864       | 492.5     | 202.5     | 194.5     | -7.25       | -55.25    | -99.6375 | 286.1875 |
| 09/03/2017 | 14:22:00 | 26.955 | 14.43    | 189      | 174.42   | 2.84375  | 170.625  | 20.1     | 26036.6  | 15320.29  | 94733   | 1357.625  | 863.8     | 492.8     | 202.5     | 195.8     | -11.35      | -60.15    | -107.025 | 285.375  |
| 09/03/2017 | 14:23:00 | 26.64  | 14.295   | 187.245  | 175.95   | 2.8275   | 169.65   | 20.1     | 25248.57 | 15196.69  | 94120   | 1360.625  | 864.7     | 493.2     | 202.5     | 194.8     | -7.65       | -53.1     | -97.5    | 295.1875 |
| 09/03/2017 | 14:24:00 | 27.45  | 14.36    | 189.045  | 171.27   | 2.84625  | 170.775  | 20.1     | 26133.38 | 15466.35  | 96911   | 1360.125  | 865.6     | 493.4     | 202.5     | 195.9     | -21.15      | -69.1     | -121.05  | 275.75   |
| 09/03/2017 | 14:25:00 | 26.82  | 14.225   | 189.2362 | 175.68   | 2.86625  | 171.975  | 20.1     | 25684.06 | 15191.07  | 95656   | 1356.875  | 865.7     | 494       | 203.5     | 195.2     | -12.05      | -58.15    | -107.7   | 281.875  |
| 09/03/2017 | 14:26:00 | 26.49  | 14.425   | 189.2813 | 174.915  | 2.89125  | 173.475  | 20.1     | 25690.97 | 15247.25  | 96607   | 1354.625  | 862.9     | 494.6     | 203.5     | 195.3     | -17.15      | -65.85    | -114.9   | 260.3125 |
| 09/03/2017 | 14:27:00 | 27.63  | 14.53    | 188.5725 | 175.455  | 2.875    | 172.5    | 20.1     | 25511.25 | 15247.25  | 94998   | 1356.25   | 864.5     | 494.8     | 204       | 196.4     | -8.7        | -55.7     | -102.638 | 265.5625 |
| 09/03/2017 | 14:28:00 | 26.43  | 14.52    | 190.4175 | 174.06   | 2.9725   | 178.35   | 20.1     | 25863.79 | 15207.93  | 95027   | 1354.625  | 864.3     | 495       | 204       | 195       | -11.05      | -58       | -105.45  | 280.375  |
| 09/03/2017 | 14:29:00 | 26.58  | 14.285   | 187.9988 | 176.4    | 2.84625  | 170.775  | 20.1     | 25241.66 | 15207.93  | 94783   | 1360.125  | 866.4     | 495.2     | 204.5     | 196.5     | -6.45       | -53.75    | -98.1375 | 288.5625 |
| 09/03/2017 | 14:30:00 | 26.64  | 14.315   | 189.2362 | 176.265  | 2.86125  | 171.675  | 20.1     | 25684.06 | 15292.2   | 94779   | 1358.375  | 865.2     | 495.1     | 204       | 196.5     | -9.4        | -57.1     | -102.713 | 285.3125 |
| 09/03/2017 | 14:31:00 | 26.865 | 14.54    | 189.3173 | 177.3    | 2.86375  | 171.825  | 20.1     | 25248.57 | 15134.89  | 94524   | 1363.125  | 866       | 495.1     | 204       | 197.1     | -3.95       | -50.3     | -93.15   | 294      |
| 09/03/2017 | 14:32:00 | 26.64  | 14.515   | 189      | 175.635  | 2.76125  | 165.675  | 20.1     | 26036.6  | 15303.43  | 96201   | 1362.5    | 863.9     | 495.5     | 203.5     | 195.8     | -16.45      | -64.8     | -114.525 | 276.625  |
| 09/03/2017 | 14:33:00 | 26.73  | 14.7     | 188.9437 | 177.975  | 2.6875   | 161.25   | 20.1     | 25504.34 | 15202.31  | 94749   | 1361.5    | 865.5     | 496.1     | 204       | 196.6     | -10.25      | -57.55    | -102.975 | 281.875  |
| 09/03/2017 | 14:34:00 | 26.85  | 14.685   | 188.28   | 174.96   | 2.7825   | 166.95   | 20.1     | 25863.79 | 15421.41  | 94853   | 1360.75   | 866.5     | 496.7     | 204.5     | 196.6     | -15.45      | -64.9     | -111.45  | 262.0625 |
| 09/03/2017 | 14:35:00 | 26.985 | 14.375   | 188.8088 | 172.98   | 2.7825   | 166.95   | 20.1     | 25331.52 | 15297.81  | 95283   | 1361.375  | 865.9     | 496.2     | 204.5     | 196.6     | -7.3        | -54.15    | -100.35  | 267.875  |
| 09/03/2017 | 14:36:00 | 26.61  | 14.695   | 187.7175 | 176.265  | 2.92125  | 175.275  | 20.1     | 25684.06 | 15387.7   | 94947   | 1360.375  | 866.4     | 496.1     | 204.5     | 196.1     | -9.25       | -56.5     | -103.05  | 282.75   |
| 09/03/2017 | 14:37:00 | 27.225 | 14.395   | 188.8537 | 174.96   | 2.90875  | 174.525  | 20.1     | 25338.44 | 15269.72  | 94548   | 1364.5    | 867.3     | 495.4     | 204.5     | 196.3     | -5.1        | -51.7     | -95.625  | 289.1875 |
| 09/03/2017 | 14:38:00 | 26.265 | 14.425   | 189      | 176.4    | 2.64125  | 158.475  | 20.1     | 25504.34 | 15376.47  | 94115   | 1360.875  | 866       | 495.5     | 204.5     | 197.5     | -9          | -56.15    | -101.363 | 287.625  |
| 09/03/2017 | 14:39:00 | 25.44  | 14.6     | 188.8537 | 173.97   | 1.9925   | 119.55   | 20.1     | 24889.13 | 15230.4   | 92799   | 1359.625  | 867.6     | 494       | 203.5     | 196.9     | -4.2        | -49.3     | -95.275  | 298.3125 |
| 09/03/2017 | 14:40:00 | 25.77  | 14.44    | 188.235  | 175.59   | 2.75375  | 165.225  | 20.1     | 25863.79 | 15404.56  | 95958   | 1353.125  | 867.2     | 493.6     | 203.5     | 196.5     | -15.35      | -63.05    | -111.488 | 276.875  |
| 09/03/2017 | 14:41:00 | 26.715 | 14.38    | 189.4162 | 176.04   | 2.93     | 175.8    | 20.1     | 25504.34 | 15264.11  | 95667   | 1352.375  | 865.5     | 492.8     | 203       | 197.3     | -10.8       | -58.95    | -103.8   | 284.0625 |
| 09/03/2017 | 14:42:00 | 26.37  | 14.335   | 189.6525 | 177.165  | 3.25875  | 195.525  | 20.1     | 25690.97 | 15325.9   | 95668   | 1345.25   | 865.5     | 492.7     | 203       | 197.4     | -13.35      | -61.05    | -108.15  | 261.0625 |
| 09/03/2017 | 14:43:00 | 26.4   | 14.79    | 188.6625 | 175.59   | 3.79     | 227.4    | 20.1     | 25690.97 | 15331.52  | 93566   | 1348      | 866.4     | 492.2     | 202.5     | 196.6     | -9.3        | -57.65    | -100.388 | 268.625  |
| 09/03/2017 | 14:44:00 | 26.235 | 14.575   | 188.8088 | 176.805  | 3.92875  | 235.725  | 20.1     | 25780.84 | 15264.11  | 94867   | 1345.75   | 866.1     | 492.4     | 202.5     | 196.1     | -10.6       | -56.55    | -104.85  | 282.5625 |
| 09/03/2017 | 14:45:00 | 26.37  | 14.445   | 187.8525 | 174.42   | 3.96375  | 237.825  | 20.1     | 25324.61 | 15264.11  | 93441   | 1350.25   | 868       | 491.8     | 202.5     | 196.4     | -5.55       | -51.75    | -97.4625 | 287.875  |
| 09/03/2017 | 14:46:00 | 26.28  | 14.525   | 189.3262 | 177.21   | 3.94625  | 236.775  | 20.1     | 25428.3  | 15410.17  | 94689   | 1346.5    | 866       | 492       | 202       | 196.5     | -7.6        | -54.35    | -101.475 | 285.5    |
| 09/03/2017 | 14:47:00 | 25.905 | 14.435   | 188.8537 | 175.77   | 3.9275   | 235.65   | 20.1     | 25248.57 | 15191.07  | 93284   | 1355.5    | 866.3     | 491.5     | 201.5     | 196.6     | -4.15       | -50       | -95.9625 | 286.5625 |
| 09/03/2017 | 14:48:00 | 26.67  | 14.695   | 188.8537 | 175.455  | 3.9775   | 238.65   | 20.1     | 25953.65 | 15280.96  | 96712   | 1347.375  | 869.2     | 492.9     | 202       | 195.5     | -12.5       | -60.6     | -107.475 | 273.375  |
| 09/03/2017 | 14:49:00 | 25.71  | 14.15    | 191.2163 | 174.735  | 3.94125  | 236.475  | 20.1     | 25601.11 | 15269.72  | 98049   | 1352.75   | 865.6     | 493.7     | 202.5     | 196.8     | -13.85      | -72.4     | -114.188 | 243.5625 |
| 09/03/2017 | 14:50:00 | 26.835 | 14.4     | 190.7438 | 175.995  | 3.91     | 234.6    | 20.1     | 25601.11 | 15224.78  | 95415   | 1350.625  | 868.4     | 495.2     | 203       | 195.7     | -9.25       | -57.7     | -104.813 | 256.9375 |
| 09/03/2017 | 14:51:00 | 25.875 | 14.315   | 188.4713 | 175.635  | 3.84625  | 230.775  | 20.1     | 25421.39 | 15325.9   | 99537   | 1357.5    | 867.7     | 495.9     | 203.5     | 196.7     | -25.05      | -80.35    | -125.138 | 244.375  |
| 09/03/2017 | 14:52:00 | 26.625 | 14.61    | 188.7525 | 175.05   | 3.78     | 226.8    | 20.1     | 25511.25 | 15342.76  | 95354   | 1354.875  | 867.3     | 497.6     | 204.5     | 196.5     | -9.9        | -56.7     | -103.088 | 283.1875 |
| 09/03/2017 | 14:53:00 | 26.73  | 14.53    | 189.9    | 175.455  | 3.34375  | 200.625  | 20.1     | 25511.25 | 15370.85  | 98844   | 1363.875  | 869.4     | 497.9     | 204.5     | 196.9     | -26.6       | -80.8     | -127.35  | 240.9375 |
| 09/03/2017 | 14:54:00 | 26.295 | 14.725   | 188.145  | 175.275  | 3.3875   | 203.25   | 20.1     | 25504.34 | 15224.78  | 93855   | 1362.25   | 867.2     | 498.2     | 205       | 196.8     | -5.35       | -53.1     | -97.2375 | 285.625  |
| 09/03/2017 | 14:55:00 | 26.325 | 14.505   | 188.5725 | 176.085  | 3.32875  | 199.725  | 20.1     | 25690.97 | 15511.3   | 99605   | 1367.25   | 869.4     | 497.6     | 204.5     | 196.8     | -27.4       | -81.75    | -131.363 | 241.3125 |
| 09/03/2017 | 14:56:00 | 26.025 | 13.555   | 190.1813 | 175.59   | 3.33875  | 200.325  | 20.1     | 25684.06 | 15168.6   | 95000   | 1357.625  | 867.8     | 497       | 204.5     | 196.5     | -11.25      | -59.25    | -105.188 | 273.25   |
| 09/03/2017 | 14:57:00 | 25.32  | 13.28    | 188.7525 | 174.735  | 3.53375  | 201.225  | 20.1     | 25684.06 | 15331.52  | 98752   | 1355.75   | 869.3     | 494.8     | 203.5     | 197.9     | -31.6       | -84.25    | -134.663 | 235.625  |
| 09/03/2017 | 14:58:00 | 25.095 | 13.36    | 187.9088 | 176.67   | 3.125    | 187.5    | 20.1     | 25601.11 | 15264.11  | 95754   | 1350.5    | 867.4     | 493.8     | 203.5     | 198.6     | -11.25      | -60.4     | -102.563 | 257.875  |
| 09/03/2017 | 14:59:00 | 26.085 | 13.3     | 189.3262 | 174.465  | 3.28     | 196.8    | 20.1     | 25863.79 | 15398.94  | 99304   | 1351.875  | 868.3     | 491.8     | 202.5     | 197.4     | -36.45      | -93.6     | -138.45  | 246.125  |
| 09/03/2017 | 15:00:00 | 26.295 | 13.475   | 186.435  | 174.69   | 3.22625  | 193.575  | 20.1     | 25504.34 | 15309.05  | 95174   | 1348      | 867.8     | 491       | 202       | 196.2     | -9.35       | -57.75    | -101.963 | 283.0625 |
| 09/03/2017 | 15:01:00 | 25.545 | 13.175   | 186.435  | 176.94   | 3.3275   | 199.65   | 20.1     | 26216.32 | 15483.21  | 98279   | 1354.25   | 867.7     | 493.3     | 201.5     | 196.6     | -36.35      | -91.25    | -138.713 | 245      |
| 09/03/2017 | 15:02:00 | 26.115 | 13.365   | 187.6725 | 177.03   | 3.17875  | 190.725  | 20.1     | 25511.25 | 15196.69  | 94947   | 1354.25   | 867.2     | 491.2     | 201.5     | 195.5     | -5.6        | -50       | -98.175  | 288.25   |
| 09/03/2017 | 15:03:00 | 26.265 | 13.435   | 188.1    | 175.5    | 3.01375  | 180.825  | 20.1     | 26299.27 | 15427.03  | 98256   | 1357.625  | 866.4     | 492.1     | 201       | 197.2     | -34.05      | -88       | -139.913 | 254.5625 |
| 09/03/2017 | 15:04:00 | 25.41  | 13.335   | 189      | 178.2    | 3.19125  | 191.475  | 19.0875  | 25780.84 | 15342.76  | 96150   | 1353.5    | 868.8     | 493.3     | 201.5     | 195.4     | -13.95      | -62.55    | -108.113 | 276.9375 |
| 09/03/2017 | 15:05:00 | 25.905 | 13.19    | 189.7987 | 177.255  | 3.00125  | 180.075  | 19.0875  | 26389.14 | 15556.24  | 98049   | 1351.875  | 866.7     | 493.7     | 201.5     | 196.6     | -35.85      | -87.05    | -139.313 | 248.3125 |
| 09/03/2017 | 15:06:00 | 26.145 | 13.525   | 186.39   | 179.235  | 2.19625  | 131.775  | 20.1     | 25504.34 | 15410.17  | 94736   | 1351.75   | 867       | 494       | 201.5     | 195.5     | -14.25      | -62.15    | -107.325 | 262.75   |
| 09/03/2017 | 15:07:00 | 25.71  | 13.26    | 187.4363 | 178.11   | 2.22875  | 133.725  | 20.2875  | 26396.05 | 15707.93  | 96245   | 1357.125  | 868.6     | 492.9     | 201       | 195.3     | -30.4       | -77.4     | -122.85  | 279.8125 |
| 09/03/2017 | 15:08:00 | 25.98  | 13.66    | 190.5525 | 178.38   | 2.855    | 171.3    | 20.2875  | 25601.11 | 15286.58  | 95346   | 1358.125  | 866.2     | 492.8     | 200.5     | 195.3     | -8.25       | -56.5     | -99.7125 | 285      |
| 09/03/2017 | 15:09:00 | 2      |          |          |          |          |          |          |          |           |         |           |           |           |           |           |             |           |          |          |

Test No. 5

| Date       | Time     | CO         | HCl     | CO2     | H2O     | THC        | O2     | Opacity | SO3    | PAC       |
|------------|----------|------------|---------|---------|---------|------------|--------|---------|--------|-----------|
|            |          | PPM        | PPM     | %       | %       | PPM        | %      | %       | PPM    | Lbs/h     |
| \$Date     | \$Time   | AT-205CORR | AT-213A | AT-213B | AT-213C | AT-259CORR | AT-261 | AT-263  | AT-264 | SC-PAC-FT |
| 09/03/2017 | 14:20:00 | 54.5       | 46.35   | 9.29    | 47.34   | 9.8        | 8.97   | 0.92    | 430.9  | 22.7325   |
| 09/03/2017 | 14:21:00 | 53.3       | 47.12   | 9.34    | 47.47   | 10.1       | 8.88   | 0.73    | 430.9  | 23.70375  |
| 09/03/2017 | 14:22:00 | 51.3       | 46.83   | 9.35    | 47.59   | 9.9        | 8.84   | 1.01    | 431.7  | 22.70625  |
| 09/03/2017 | 14:23:00 | 49.2       | 46.72   | 9.31    | 47.47   | 10.3       | 8.78   | 0.98    | 429.5  | 23.33625  |
| 09/03/2017 | 14:24:00 | 52.1       | 46.4    | 9.32    | 47.51   | 10.1       | 8.85   | 0.82    | 432.6  | 23.54625  |
| 09/03/2017 | 14:25:00 | 54.5       | 46.51   | 9.37    | 47.63   | 9.6        | 8.82   | 0.63    | 436    | 22.5225   |
| 09/03/2017 | 14:26:00 | 52.1       | 46.49   | 9.25    | 47.27   | 9.8        | 8.97   | 0.21    | 434.8  | 23.6775   |
| 09/03/2017 | 14:27:00 | 49.5       | 48.38   | 9.21    | 47.12   | 10.5       | 9.02   | 0.02    | 431    | 23.70375  |
| 09/03/2017 | 14:28:00 | 48.2       | 48.28   | 9.27    | 47.12   | 9.7        | 8.95   | 0.71    | 431    | 23.65125  |
| 09/03/2017 | 14:29:00 | 49.2       | 50.09   | 9.33    | 47.27   | 10.7       | 8.91   | 0.86    | 431    | 23.52     |
| 09/03/2017 | 14:30:00 | 48.1       | 51.33   | 9.32    | 47.34   | 9.5        | 8.88   | 0.93    | 432.2  | 22.54875  |
| 09/03/2017 | 14:31:00 | 44.4       | 51.58   | 9.28    | 47.38   | 10.8       | 8.82   | 1.15    | 435.9  | 23.625    |
| 09/03/2017 | 14:32:00 | 43.6       | 51.44   | 9.3     | 47.53   | 10.1       | 8.85   | 0.57    | 435.9  | 22.7325   |
| 09/03/2017 | 14:33:00 | 44.2       | 51.25   | 9.39    | 47.65   | 9.9        | 8.7    | 0.57    | 437.9  | 22.54875  |
| 09/03/2017 | 14:34:00 | 41.6       | 51.84   | 9.26    | 47.27   | 9.5        | 8.84   | 1.48    | 433.2  | 22.75875  |
| 09/03/2017 | 14:35:00 | 41.6       | 52.83   | 9.29    | 47.32   | 10.3       | 8.93   | 0.13    | 437    | 22.49625  |
| 09/03/2017 | 14:36:00 | 39.8       | 54.56   | 9.34    | 47.49   | 9.6        | 8.87   | 0.61    | 444.4  | 22.44375  |
| 09/03/2017 | 14:37:00 | 39.5       | 54.41   | 9.33    | 47.52   | 10.8       | 8.83   | 0.8     | 443    | 23.70375  |
| 09/03/2017 | 14:38:00 | 42         | 55.52   | 9.37    | 47.64   | 10         | 8.85   | 0.92    | 443    | 22.81125  |
| 09/03/2017 | 14:39:00 | 45.3       | 55.55   | 9.3     | 47.48   | 10.9       | 8.86   | 1.15    | 440.9  | 23.52     |
| 09/03/2017 | 14:40:00 | 49.2       | 55.29   | 9.29    | 47.57   | 9.5        | 8.91   | 0.52    | 438.8  | 23.6775   |
| 09/03/2017 | 14:41:00 | 52.9       | 54.04   | 9.23    | 47.37   | 10.5       | 8.95   | 0.71    | 423.8  | 22.54875  |
| 09/03/2017 | 14:42:00 | 52.7       | 53.88   | 9.21    | 47.26   | 9.9        | 9.07   | 1.48    | 419.6  | 23.4675   |
| 09/03/2017 | 14:43:00 | 55.4       | 54.12   | 9.22    | 47.5    | 11         | 9.12   | 0.2     | 420.8  | 22.785    |
| 09/03/2017 | 14:44:00 | 57.4       | 51.96   | 9.27    | 47.62   | 10         | 8.97   | 0.7     | 422.6  | 22.365    |
| 09/03/2017 | 14:45:00 | 57.9       | 51.84   | 9.28    | 47.59   | 10.8       | 8.94   | 0.86    | 422.6  | 23.4675   |
| 09/03/2017 | 14:46:00 | 60.2       | 52.99   | 9.31    | 47.51   | 9.8        | 8.83   | 0.95    | 422.9  | 23.4675   |
| 09/03/2017 | 14:47:00 | 58.2       | 51.47   | 9.27    | 47.39   | 11.5       | 8.88   | 1.3     | 421.4  | 23.6775   |
| 09/03/2017 | 14:48:00 | 67.1       | 48.96   | 9.35    | 47.72   | 9.8        | 8.88   | 0.5     | 431    | 22.4175   |
| 09/03/2017 | 14:49:00 | 68.7       | 47.59   | 9.35    | 47.64   | 10.3       | 8.75   | 0.83    | 433.9  | 22.575    |
| 09/03/2017 | 14:50:00 | 58.5       | 48.03   | 9.27    | 47.13   | 9.7        | 8.82   | 0.01    | 435.5  | 22.3125   |
| 09/03/2017 | 14:51:00 | 55         | 49.15   | 9.33    | 47.39   | 10.1       | 8.84   | 0.45    | 442.2  | 23.625    |
| 09/03/2017 | 14:52:00 | 52.9       | 50.18   | 9.35    | 47.57   | 10.3       | 8.82   | 0.8     | 447    | 22.96875  |
| 09/03/2017 | 14:53:00 | 50.2       | 51.48   | 9.4     | 47.64   | 10.8       | 8.74   | 0.95    | 452    | 23.5725   |
| 09/03/2017 | 14:54:00 | 52.1       | 51.38   | 9.44    | 47.84   | 9          | 8.71   | 1.11    | 457.6  | 22.60125  |
| 09/03/2017 | 14:55:00 | 51.2       | 49.82   | 9.37    | 47.7    | 10.5       | 8.72   | 1.15    | 450.4  | 23.65125  |
| 09/03/2017 | 14:56:00 | 50         | 49.75   | 9.41    | 47.84   | 8.6        | 8.64   | 0.55    | 449.2  | 22.60125  |
| 09/03/2017 | 14:57:00 | 48.6       | 49.97   | 9.29    | 47.64   | 9.6        | 8.74   | 0.9     | 439.6  | 22.86375  |
| 09/03/2017 | 14:58:00 | 51.9       | 50.1    | 9.13    | 47.34   | 9.7        | 9.06   | 1.43    | 421    | 23.1      |
| 09/03/2017 | 14:59:00 | 59.3       | 49.67   | 9.17    | 47.43   | 10.6       | 9.11   | 0.71    | 421    | 22.54875  |
| 09/03/2017 | 15:00:00 | 66         | 48.77   | 9.17    | 47.51   | 10.1       | 9.02   | 0.73    | 421    | 23.33625  |
| 09/03/2017 | 15:01:00 | 66.3       | 48.12   | 9.18    | 47.51   | 10.8       | 9      | 1.02    | 421    | 22.44375  |
| 09/03/2017 | 15:02:00 | 68.3       | 48.41   | 9.24    | 47.67   | 9.9        | 8.99   | 0.91    | 424.3  | 22.54875  |
| 09/03/2017 | 15:03:00 | 63.2       | 46.73   | 9.21    | 47.38   | 10.4       | 8.97   | 1.05    | 424.3  | 23.65125  |
| 09/03/2017 | 15:04:00 | 63.2       | 45.84   | 9.27    | 47.53   | 9.3        | 8.97   | 0.42    | 426.3  | 22.365    |
| 09/03/2017 | 15:05:00 | 55.2       | 46.08   | 9.18    | 47.32   | 9.6        | 8.97   | 1.21    | 422.9  | 22.785    |
| 09/03/2017 | 15:06:00 | 50.5       | 46.45   | 9.13    | 47.18   | 9.5        | 9.14   | 0.22    | 419    | 23.49375  |
| 09/03/2017 | 15:07:00 | 50.9       | 45.6    | 9.13    | 47.23   | 9.5        | 9.08   | 1.23    | 416.6  | 23.12625  |
| 09/03/2017 | 15:08:00 | 53.7       | 45.19   | 9.18    | 47.33   | 9.9        | 9.03   | 0.86    | 413.7  | 22.33875  |
| 09/03/2017 | 15:09:00 | 53.3       | 46.77   | 9.23    | 47.52   | 10.2       | 9.08   | 1.17    | 415.1  | 22.68     |
| 09/03/2017 | 15:10:00 | 55.6       | 47.6    | 9.22    | 47.66   | 10.3       | 9.01   | 1.13    | 420.3  | 23.52     |
| 09/03/2017 | 15:11:00 | 58.9       | 47.67   | 9.17    | 47.44   | 9.9        | 9      | 1.02    | 421.3  | 23.49375  |
| 09/03/2017 | 15:12:00 | 56         | 48.81   | 9.25    | 47.68   | 9.4        | 8.93   | 0.51    | 423.6  | 22.365    |
| 09/03/2017 | 15:13:00 | 47.9       | 48.62   | 9.16    | 47.21   | 9.1        | 9.09   | 0.63    | 420.6  | 22.365    |
| 09/03/2017 | 15:14:00 | 47         | 48.14   | 9.12    | 47.03   | 9.6        | 9.18   | 0.03    | 420.6  | 22.33875  |
| 09/03/2017 | 15:15:00 | 50.8       | 48.91   | 9.16    | 47.13   | 9.4        | 9.17   | 0.9     | 425.6  | 22.3125   |
| 09/03/2017 | 15:16:00 | 53.3       | 49.73   | 9.17    | 47.11   | 9.6        | 9.12   | 0.73    | 425.6  | 22.3125   |
| 09/03/2017 | 15:17:00 | 54.3       | 49.94   | 9.18    | 47.18   | 9.3        | 9.08   | 0.88    | 425.6  | 23.1525   |
| 09/03/2017 | 15:18:00 | 54.9       | 49.18   | 9.11    | 47.19   | 10.1       | 9.05   | 1.06    | 423.7  | 23.07375  |
| 09/03/2017 | 15:19:00 | 55.3       | 49.86   | 9.12    | 47.3    | 9.7        | 9.05   | 0.78    | 426.3  | 23.17875  |
| 09/03/2017 | 15:20:00 | 56.4       | 48.92   | 9.18    | 47.48   | 9.6        | 8.91   | 0.7     | 427.2  | 22.54875  |

| March 9/2017 | Analyzers |          |          |          |          |          |          |          |             | Flows |
|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|-------------|-------|
|              | CO        | HCl      | CO2      | H2O      | THC      | O2       | Opacity  | SO2      | PACFlow     |       |
| Test 5       | AT-205    | AT-213A  | AT-213B  | AT-213C  | AT-259   | AT-261   | AT-263   | AT-264   | SC-PAC-FT   |       |
| Max          | 68.7      | 55.6     | 9.4      | 47.8     | 11.5     | 9.2      | 1.5      | 457.6    | 23.7        |       |
| Min          | 39.5      | 45.2     | 9.1      | 47.0     | 8.6      | 8.6      | 0.0      | 413.7    | 22.3        |       |
| Average      | 53.0      | 49.7     | 9.3      | 47.4     | 10.0     | 8.9      | 0.8      | 430.2    | 23.0        |       |
| Variance     | 46.34613  | 7.468455 | 0.006962 | 0.037186 | 0.299612 | 0.016198 | 0.120619 | 97.16318 | 0.256617418 |       |

Test No. 6

| \$Date     | \$Time   | Rich   | Emulsion | Lean     | Alkaline | TDU Flow | TDU Flow | Leachate | Primary           | Secondary         | Stack             | Primary   | Secondary | Quench    | SDA       | Stack     | Incinerator | SDA Inlet | BH Inlet | BH dP    |
|------------|----------|--------|----------|----------|----------|----------|----------|----------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|----------|----------|
|            |          | LPM    | LPM      | LPM      | LPM      | LPM      | SCFM     | LPM      | m <sup>3</sup> /h | m <sup>3</sup> /h | m <sup>3</sup> /h | Degrees C | Degrees C | Degrees C | Degrees C | Degrees C | mmH2O       | mmH2O     | mmH2O    | mmH2O    |
|            |          | FT-229 | FT-219C  | FT-223   | PV-207   | FT-313B  | FT-313   | PV-211   | PV-236            | PV-209            | FT-260C           | TE-240    | TE-241    | TE-203    | TE-204    | TE-258    | PT-242A     | PT-249    | PT-615   | PDT-622  |
| 09/03/2017 | 15:34:00 | 25.62  | 13.32    | 190.08   | 179.64   | 3.08125  | 184.875  | 20.1     | 25068.85          | 15365.23          | 94003             | 1372.625  | 868       | 495.3     | 200.5     | 194.4     | -4.5        | -48.3     | -96.6    | 292.25   |
| 09/03/2017 | 15:35:00 | 26.13  | 13.175   | 189.7538 | 177.03   | 2.98125  | 178.875  | 20.1     | 26299.27          | 15556.24          | 97103             | 1366.875  | 864.2     | 496.1     | 200.5     | 193.8     | -15.95      | -64.5     | -111.713 | 268.8125 |
| 09/03/2017 | 15:36:00 | 25.575 | 12.95    | 188.145  | 178.065  | 3.0625   | 183.75   | 20.1     | 25428.3           | 15415.79          | 94941             | 1368      | 865.4     | 497.1     | 201       | 194.9     | -12.95      | -61.85    | -106.65  | 278.375  |
| 09/03/2017 | 15:37:00 | 26.13  | 13.14    | 190.6987 | 178.425  | 3.14375  | 188.625  | 20.1     | 25953.65          | 15342.76          | 95499             | 1363.75   | 865.8     | 497.4     | 201.5     | 194.6     | -13.55      | -63.05    | -112.763 | 256.75   |
| 09/03/2017 | 15:38:00 | 25.62  | 13.215   | 188.4262 | 176.94   | 3.2025   | 192.15   | 20.1     | 25511.25          | 15230.4           | 94214             | 1366      | 865.8     | 498       | 202       | 195.8     | -10.35      | -57.15    | -104.288 | 262.875  |
| 09/03/2017 | 15:39:00 | 26.22  | 13.2     | 189.2813 | 177.165  | 3.06     | 183.6    | 20.1     | 25511.25          | 15331.52          | 95376             | 1365.875  | 865.7     | 498.6     | 202.5     | 195.7     | -12.2       | -61.05    | -105.338 | 277.0625 |
| 09/03/2017 | 15:40:00 | 26.175 | 13.155   | 187.6162 | 176.13   | 3.14375  | 188.625  | 20.1     | 25338.44          | 15224.78          | 94672             | 1370.125  | 862.5     | 499       | 202.5     | 195.4     | -5.85       | -52.1     | -99.15   | 286.3125 |
| 09/03/2017 | 15:41:00 | 26.01  | 13.41    | 189.0357 | 179.1    | 3.16375  | 189.825  | 20.1     | 25381.52          | 15415.79          | 95068             | 1367.5    | 866.6     | 499.4     | 202.5     | 196.1     | -6.35       | -52.75    | -99.75   | 281.6875 |
| 09/03/2017 | 15:42:00 | 25.395 | 13.275   | 190.4175 | 178.38   | 3.0425   | 182.55   | 20.1     | 25241.66          | 15314.67          | 92954             | 1374.375  | 867       | 499.6     | 202.5     | 196.2     | -2.75       | -48.65    | -94.3125 | 294.125  |
| 09/03/2017 | 15:43:00 | 26.13  | 13.325   | 189.4162 | 178.335  | 3.35     | 201      | 20.1     | 26043.51          | 15382.08          | 96494             | 1369.75   | 866.8     | 500.6     | 203       | 194.9     | -14.35      | -63.75    | -110.325 | 275.25   |
| 09/03/2017 | 15:44:00 | 26.025 | 13.445   | 189.99   | 179.325  | 3.2225   | 193.35   | 20.1     | 25511.25          | 15303.43          | 93992             | 1371.75   | 865.5     | 500.5     | 203.5     | 197       | -9.4        | -58.2     | -103.463 | 281.25   |
| 09/03/2017 | 15:45:00 | 25.665 | 13.37    | 188.145  | 179.145  | 3.18     | 190.8    | 20.1     | 25511.25          | 15533.77          | 95319             | 1371.375  | 865.3     | 500.8     | 203.5     | 195.5     | -13.25      | -62.65    | -108.225 | 258.0625 |
| 09/03/2017 | 15:46:00 | 26.01  | 13.185   | 186.1987 | 179.235  | 3.2875   | 197.25   | 20.1     | 25428.3           | 15314.67          | 93786             | 1375.5    | 866.2     | 500.8     | 203.5     | 196.4     | -7.65       | -53.95    | -101.513 | 251.375  |
| 09/03/2017 | 15:47:00 | 25.26  | 12.975   | 191.4525 | 177.615  | 3.27875  | 196.725  | 20.1     | 25248.57          | 15292.2           | 94356             | 1372.75   | 867.4     | 500.9     | 203.5     | 195.4     | -7.05       | -55.8     | -100.875 | 277.4375 |
| 09/03/2017 | 15:48:00 | 25.605 | 13.015   | 190.3163 | 177.66   | 3.20375  | 192.225  | 20.1     | 25248.57          | 15258.49          | 94919             | 1378.75   | 866.9     | 501.3     | 203.5     | 197.2     | -2.55       | -48.85    | -109.125 | 248.125  |
| 09/03/2017 | 15:49:00 | 26.01  | 13.1     | 185.8163 | 177.795  | 3.22     | 193.2    | 20.1     | 25594.2           | 15230.4           | 93945             | 1374.25   | 867.2     | 502.5     | 204       | 196       | -7.05       | -53.3     | -100.313 | 285.3125 |
| 09/03/2017 | 15:50:00 | 25.68  | 12.94    | 190.98   | 176.76   | 3.27875  | 196.725  | 20.1     | 25248.57          | 15241.63          | 96063             | 1381.375  | 868       | 501.9     | 204       | 197.3     | -13.15      | -70.75    | -120.75  | 242.25   |
| 09/03/2017 | 15:51:00 | 25.665 | 13.205   | 190.035  | 177.615  | 3.35625  | 201.375  | 20.1     | 25856.88          | 15398.94          | 95267             | 1376.625  | 866.6     | 503.4     | 204.5     | 196.1     | -12.75      | -61.7     | -108.263 | 274.625  |
| 09/03/2017 | 15:52:00 | 25.35  | 13.2     | 186.8175 | 176.13   | 3.22875  | 193.725  | 20.1     | 25504.34          | 15224.78          | 100218            | 1378      | 865.2     | 503.3     | 205       | 197.4     | -27.9       | -84.5     | -129.938 | 237.75   |
| 09/03/2017 | 15:53:00 | 25.635 | 13.075   | 189.6075 | 177.525  | 3.205    | 192.3    | 20.1     | 25511.25          | 15314.67          | 95076             | 1373.875  | 868.4     | 504       | 205.5     | 197.4     | -10.5       | -60.2     | -105.413 | 261.75   |
| 09/03/2017 | 15:54:00 | 25.995 | 13.045   | 187.9988 | 177.075  | 3.38875  | 203.325  | 20.1     | 25773.92          | 15370.85          | 99217             | 1377.625  | 865.5     | 504.5     | 205.5     | 197.4     | -30.6       | -85.75    | -135.225 | 250.6875 |
| 09/03/2017 | 15:55:00 | 25.32  | 13.28    | 188.0437 | 178.155  | 3.37375  | 202.425  | 20.1     | 25511.25          | 15241.63          | 93344             | 1373.75   | 868.7     | 505.1     | 206       | 196.6     | -7.85       | -55.45    | -100.05  | 283.625  |
| 09/03/2017 | 15:56:00 | 25.485 | 13.175   | 188.235  | 176.04   | 3.23375  | 194.025  | 20.1     | 25780.84          | 15477.59          | 99765             | 1378.75   | 869.5     | 504.8     | 206       | 197.4     | -32.9       | -88.2     | -136.125 | 247.8125 |
| 09/03/2017 | 15:57:00 | 25.68  | 13.12    | 189.7087 | 177.885  | 3.405    | 204.3    | 20.1     | 25511.25          | 15264.11          | 93717             | 1378.875  | 866.7     | 505.5     | 206.5     | 199.6     | -2.95       | -49.5     | -96.4125 | 288.6875 |
| 09/03/2017 | 15:58:00 | 25.32  | 13       | 186.39   | 176.535  | 3.3275   | 199.65   | 20.1     | 26133.38          | 15528.15          | 98549             | 1385.875  | 865.6     | 505.1     | 206       | 197.4     | -32.05      | -86.8     | -135.375 | 247.5625 |
| 09/03/2017 | 15:59:00 | 25.44  | 13.225   | 188.6175 | 179.325  | 3.4275   | 205.65   | 20.1     | 25511.25          | 15280.96          | 95451             | 1378.5    | 865.8     | 505.3     | 206       | 197.7     | -10.9       | -59.95    | -106.35  | 278.625  |
| 09/03/2017 | 16:00:00 | 25.995 | 13.09    | 185.9175 | 176.67   | 3.37375  | 202.425  | 20.1     | 26133.38          | 15511.3           | 98567             | 1378.875  | 863.5     | 504.5     | 206       | 198.2     | -32.7       | -88.2     | -134.925 | 239.3125 |
| 09/03/2017 | 16:01:00 | 24.99  | 13.31    | 191.9812 | 178.425  | 3.42875  | 205.725  | 20.1     | 25594.2           | 15421.41          | 96248             | 1379.625  | 865.6     | 504.1     | 206       | 198.5     | -4.95       | -54.15    | -100.763 | 260.75   |
| 09/03/2017 | 16:02:00 | 25.56  | 12.905   | 189.2362 | 177.075  | 3.40375  | 204.225  | 20.1     | 26133.38          | 15511.3           | 98434             | 1381.375  | 867.4     | 504.1     | 205.5     | 198.9     | -32.45      | -85.6     | -136.05  | 257.1875 |
| 09/03/2017 | 16:03:00 | 25.44  | 13.425   | 186.7163 | 178.74   | 3.49625  | 209.775  | 20.1     | 25511.25          | 15325.9           | 92663             | 1381.875  | 866.2     | 503.8     | 205.5     | 199.4     | -7.9        | -55.65    | -100.013 | 285.875  |
| 09/03/2017 | 16:04:00 | 25.8   | 13.155   | 189.7087 | 177.945  | 3.39625  | 203.775  | 20.1     | 26133.38          | 15516.92          | 97604             | 1383.875  | 866.5     | 503.1     | 205       | 198.2     | -33.25      | -88.25    | -137.063 | 248.875  |
| 09/03/2017 | 16:05:00 | 25.29  | 13.125   | 190.4175 | 179.46   | 3.34875  | 200.925  | 20.1     | 25241.66          | 15196.69          | 93736             | 1383.125  | 867       | 503.5     | 205.5     | 198.7     | -4.15       | -51.55    | -95.25   | 289.625  |
| 09/03/2017 | 16:06:00 | 24.78  | 13.12    | 189.3713 | 178.515  | 3.35125  | 201.075  | 20.1     | 26043.51          | 15595.57          | 96836             | 1389.75   | 867.2     | 503.8     | 205       | 196.8     | -32.8       | -85.25    | -137.738 | 248.1875 |
| 09/03/2017 | 16:07:00 | 24.075 | 13.23    | 188.9437 | 178.065  | 3.455    | 207.3    | 20.1     | 25421.39          | 15460.74          | 95240             | 1375.625  | 867.3     | 503.2     | 205.5     | 196.8     | -10.25      | -57.9     | -105.45  | 276.875  |
| 09/03/2017 | 16:08:00 | 24.615 | 12.84    | 187.1437 | 177.21   | 3.14375  | 188.625  | 20.1     | 26126.46          | 15595.57          | 95253             | 1370.5    | 865.4     | 502.2     | 205       | 199.2     | -19.7       | -69.45    | -120.9   | 255.5    |
| 09/03/2017 | 16:09:00 | 24.45  | 13.335   | 190.2262 | 179.28   | 3.5325   | 211.95   | 20.1     | 25511.25          | 15382.08          | 94313             | 1366.5    | 867.9     | 500.9     | 204.5     | 198.2     | -9.25       | -57.35    | -102.075 | 260.875  |
| 09/03/2017 | 16:10:00 | 24.735 | 12.66    | 186.5812 | 178.02   | 3.29375  | 197.625  | 20.1     | 25863.79          | 15494.44          | 95335             | 1363.875  | 867.4     | 500.2     | 204       | 197.7     | -17.05      | -65.55    | -113.738 | 280.75   |
| 09/03/2017 | 16:11:00 | 24.03  | 13.27    | 186.0525 | 177.525  | 3.3225   | 199.35   | 20.1     | 25421.39          | 15106.8           | 93644             | 1364.125  | 865.8     | 499.4     | 203.5     | 197.9     | -10.9       | -57.9     | -101.213 | 284.5625 |
| 09/03/2017 | 16:12:00 | 24.48  | 12.845   | 185.535  | 176.04   | 3.3325   | 199.95   | 20.1     | 25946.74          | 15528.15          | 94340             | 1361.875  | 868.4     | 498.5     | 203       | 197.3     | -18.75      | -66.2     | -114.263 | 282.5625 |
| 09/03/2017 | 16:13:00 | 23.55  | 12.95    | 189.6525 | 178.29   | 3.47     | 208.2    | 20.1     | 25151.8           | 15314.67          | 93104             | 1359.5    | 869.1     | 498       | 203       | 197.3     | -4.45       | -49.85    | -94.05   | 288.6875 |
| 09/03/2017 | 16:14:00 | 23.805 | 13.055   | 185.3438 | 176.4    | 3.4575   | 207.45   | 20.1     | 26575.77          | 15589.95          | 97296             | 1360      | 869.9     | 497.6     | 202       | 198       | -35.7       | -89.7     | -133.313 | 264.8125 |
| 09/03/2017 | 16:15:00 | 24.495 | 13.22    | 184.3088 | 178.515  | 3.35375  | 201.225  | 20.1     | 25863.79          | 15337.14          | 95399             | 1355.25   | 868.6     | 497.5     | 202.5     | 197.7     | -11.55      | -59.2     | -105.3   | 276.75   |
| 09/03/2017 | 16:16:00 | 23.52  | 13.13    | 188.7    | 178.02   | 3.2225   | 193.35   | 20.1     | 26043.51          | 15629.28          | 96415             | 1351.75   | 869.6     | 497       | 202       | 196.2     | -21.75      | -71.45    | -116.625 | 257.625  |
| 09/03/2017 | 16:17:00 | 24.66  | 13.155   | 187.6725 | 177.975  | 3.1975   | 191.85   | 20.1     | 25601.11          | 15337.14          | 95065             | 1350.875  | 866.3     | 495.7     | 202       | 197.6     | -11.2       | -59.05    | -104.55  | 261.8125 |
| 09/03/2017 | 16:18:00 | 24.57  | 12.975   | 185.4    | 177.12   | 3.235    | 194.1    | 20.1     | 25946.74          | 15455.12          | 95203             | 1351.25   | 868       | 495.5     | 201.5     | 196.5     | -16.95      | -65.8     | -109.238 | 276.625  |
| 09/03/2017 | 16:19:00 | 24.135 | 13.19    | 187.9988 | 177.525  | 3.20625  | 192.375  | 20.1     | 25421.39          | 15477.59          | 94504             | 1352.875  | 867.4     | 495.4     | 201       | 196.3     | -7.5        | -52.9     | -100.763 | 281.75   |
| 09/03/2017 | 16:20:00 | 24.135 | 12.935   | 186.5812 | 176.31   | 3.2425   | 194.55   | 20.1     | 25953.65          | 15618.04          | 94886             | 1350.5    | 866.6     | 495.2     | 201       | 197       | -12.9       | -59.3     | -108.525 | 278.1875 |
| 09/03/2017 | 16:21:00 | 24.3   | 13.47    | 190.1362 | 178.965  | 3.1475   | 188.85   | 20.1     | 25248.57          | 15359.61          | 93626             | 1351.75   | 865.5     | 494.6     | 201       | 196.5     | -4.4        | -51.25    | -96.5625 | 287.6875 |
| 09/03/2017 | 16:22:00 | 24.84  | 13.13    | 187.4363 | 176.58   | 3.385    | 203.1    | 20.1     | 26306.19          | 15522.53          | 97464             | 1350.75   | 868       | 494.6     | 200.5     | 195.1     | -23.6       | -72.45    | -118.463 | 271.25   |
| 09/03/2017 | 16:23:00 | 24.825 | 13       |          |          |          |          |          |                   |                   |                   |           |           |           |           |           |             |           |          |          |



Test No. 6

| SDate      | STime    | CO         | HCl     | CO2     | H2O     | THC        | O2     | Opacity | SO3    | PAC       |
|------------|----------|------------|---------|---------|---------|------------|--------|---------|--------|-----------|
|            |          | PPM        | PPM     | %       | %       | PPM        | %      | %       | PPM    | Lbs/h     |
|            |          | AT-205corr | AT-213A | AT-213B | AT-213C | AT-259corr | AT-261 | AT-263  | AT-264 | SC-PAC-FT |
| 09/03/2017 | 15:34:00 | 51.1       | 52.13   | 9.21    | 47.31   | 9.8        | 8.99   | 1.15    | 435.5  | 23.1525   |
| 09/03/2017 | 15:35:00 | 49.3       | 53.66   | 9.27    | 47.46   | 8.9        | 8.94   | 0.51    | 436    | 22.365    |
| 09/03/2017 | 15:36:00 | 47.1       | 52.92   | 9.25    | 47.4    | 9.5        | 8.85   | 0.51    | 433.9  | 22.365    |
| 09/03/2017 | 15:37:00 | 45.1       | 52.42   | 9.16    | 47.05   | 8.6        | 8.96   | 1.38    | 435.3  | 23.75625  |
| 09/03/2017 | 15:38:00 | 45.7       | 52.51   | 9.17    | 47.1    | 9.5        | 9.07   | 0.13    | 438    | 23.65125  |
| 09/03/2017 | 15:39:00 | 44.4       | 53.75   | 9.22    | 47.26   | 8.7        | 9.06   | 0.57    | 442.1  | 23.65125  |
| 09/03/2017 | 15:40:00 | 44.5       | 54.88   | 9.27    | 47.41   | 9.5        | 8.97   | 0.63    | 448.8  | 23.70375  |
| 09/03/2017 | 15:41:00 | 44.7       | 55.42   | 9.3     | 47.48   | 8.4        | 8.93   | 0.92    | 451.6  | 22.54875  |
| 09/03/2017 | 15:42:00 | 43.7       | 55.97   | 9.27    | 47.3    | 10.4       | 8.94   | 1.05    | 450.1  | 22.49625  |
| 09/03/2017 | 15:43:00 | 47.6       | 56.94   | 9.34    | 47.59   | 8.3        | 8.94   | 0.48    | 458.2  | 23.07375  |
| 09/03/2017 | 15:44:00 | 48.7       | 57.33   | 9.37    | 47.65   | 9.3        | 8.79   | 0.67    | 455.7  | 22.4175   |
| 09/03/2017 | 15:45:00 | 45         | 56.84   | 9.31    | 47.43   | 8.1        | 8.87   | 1.42    | 450.6  | 22.96875  |
| 09/03/2017 | 15:46:00 | 43         | 56.91   | 9.27    | 47.34   | 9.4        | 9      | 0.11    | 448.9  | 22.7325   |
| 09/03/2017 | 15:47:00 | 43         | 57.61   | 9.32    | 47.47   | 9          | 8.86   | 0.55    | 453    | 23.3625   |
| 09/03/2017 | 15:48:00 | 43.6       | 57.2    | 9.34    | 47.58   | 8.9        | 8.84   | 0.67    | 454.8  | 22.81125  |
| 09/03/2017 | 15:49:00 | 43.6       | 56.24   | 9.35    | 47.72   | 9.4        | 8.77   | 1.02    | 461.2  | 23.6775   |
| 09/03/2017 | 15:50:00 | 44.5       | 56.48   | 9.37    | 47.72   | 10.2       | 8.79   | 0.98    | 466    | 22.6275   |
| 09/03/2017 | 15:51:00 | 48.1       | 57.18   | 9.42    | 47.74   | 8.7        | 8.8    | 0.48    | 471.2  | 22.75875  |
| 09/03/2017 | 15:52:00 | 45.1       | 57.68   | 9.31    | 47.44   | 9.4        | 8.76   | 0.83    | 462.2  | 22.89     |
| 09/03/2017 | 15:53:00 | 41.8       | 57.5    | 9.27    | 47.35   | 8.9        | 8.84   | 1.32    | 457.8  | 22.4175   |
| 09/03/2017 | 15:54:00 | 43.2       | 58.89   | 9.27    | 47.36   | 10         | 8.92   | 0.68    | 460.6  | 22.995    |
| 09/03/2017 | 15:55:00 | 47.9       | 59.91   | 9.32    | 47.52   | 8.2        | 8.85   | 0.58    | 468    | 22.49625  |
| 09/03/2017 | 15:56:00 | 50.3       | 60.06   | 9.4     | 47.7    | 8.5        | 8.76   | 0.88    | 472.1  | 22.75875  |
| 09/03/2017 | 15:57:00 | 48.3       | 60.09   | 9.42    | 47.82   | 8.3        | 8.79   | 0.86    | 472.1  | 22.6275   |
| 09/03/2017 | 15:58:00 | 46.3       | 59.88   | 9.37    | 47.58   | 9.4        | 8.78   | 1.05    | 468.5  | 23.75625  |
| 09/03/2017 | 15:59:00 | 48.4       | 60.34   | 9.42    | 47.81   | 7.6        | 8.66   | 0.45    | 473.9  | 23.625    |
| 09/03/2017 | 16:00:00 | 47         | 60.02   | 9.37    | 47.69   | 8          | 8.73   | 0.98    | 470.6  | 22.26     |
| 09/03/2017 | 16:01:00 | 40.9       | 60.51   | 9.26    | 47.3    | 7.7        | 8.89   | 1.48    | 459.4  | 22.33875  |
| 09/03/2017 | 16:02:00 | 44.8       | 61.56   | 9.31    | 47.53   | 8.6        | 8.86   | 0.8     | 462.7  | 23.02125  |
| 09/03/2017 | 16:03:00 | 46.9       | 62.14   | 9.34    | 47.61   | 8.2        | 8.8    | 0.7     | 464.6  | 22.68     |
| 09/03/2017 | 16:04:00 | 43         | 61.57   | 9.32    | 47.68   | 9          | 8.79   | 0.92    | 465.8  | 23.49375  |
| 09/03/2017 | 16:05:00 | 42         | 61.37   | 9.33    | 47.69   | 9.7        | 8.73   | 1       | 467.2  | 23.4675   |
| 09/03/2017 | 16:06:00 | 47.1       | 61.84   | 9.39    | 47.71   | 9.8        | 8.7    | 1.01    | 474    | 22.4175   |
| 09/03/2017 | 16:07:00 | 51.8       | 61.89   | 9.47    | 47.98   | 8.4        | 8.66   | 0.42    | 483.8  | 23.17875  |
| 09/03/2017 | 16:08:00 | 46.4       | 60.33   | 9.3     | 47.48   | 9.1        | 8.72   | 1.55    | 466.3  | 23.65125  |
| 09/03/2017 | 16:09:00 | 43         | 61.21   | 9.16    | 47.3    | 9.2        | 9.03   | 0.1     | 451.9  | 23.6775   |
| 09/03/2017 | 16:10:00 | 43.8       | 61.78   | 9.2     | 47.43   | 9.1        | 9.04   | 1.23    | 451.9  | 23.1525   |
| 09/03/2017 | 16:11:00 | 44.3       | 61.04   | 9.24    | 47.53   | 9.2        | 8.98   | 0.63    | 451.9  | 23.28375  |
| 09/03/2017 | 16:12:00 | 44.5       | 60.52   | 9.23    | 47.56   | 9.1        | 8.96   | 0.92    | 450.1  | 22.785    |
| 09/03/2017 | 16:13:00 | 43.2       | 60.04   | 9.18    | 47.4    | 8.4        | 8.89   | 0.88    | 449.1  | 22.68     |
| 09/03/2017 | 16:14:00 | 46.2       | 59.76   | 9.17    | 47.39   | 9          | 8.98   | 0.76    | 448.3  | 22.96875  |
| 09/03/2017 | 16:15:00 | 48.4       | 60.12   | 9.23    | 47.59   | 8.7        | 8.95   | 0.36    | 449.5  | 23.28375  |
| 09/03/2017 | 16:16:00 | 44.4       | 60.43   | 9.08    | 47.16   | 8.6        | 9.13   | 0.21    | 439    | 23.625    |
| 09/03/2017 | 16:17:00 | 43         | 60.04   | 9.03    | 47      | 8.7        | 9.23   | 1.51    | 435.9  | 23.31     |
| 09/03/2017 | 16:18:00 | 43.9       | 59.86   | 9.08    | 47.08   | 9.3        | 9.26   | 0.7     | 433.2  | 22.47     |
| 09/03/2017 | 16:19:00 | 45.2       | 60.65   | 9.14    | 47.22   | 9.1        | 9.25   | 0.7     | 436.4  | 22.5225   |
| 09/03/2017 | 16:20:00 | 48         | 61.04   | 9.15    | 47.35   | 9          | 9.16   | 0.96    | 442.8  | 23.0475   |
| 09/03/2017 | 16:21:00 | 50.4       | 60.04   | 9.13    | 47.34   | 9.2        | 9.14   | 0.92    | 442.8  | 23.38875  |
| 09/03/2017 | 16:22:00 | 51.6       | 59.98   | 9.12    | 47.34   | 8.8        | 9.16   | 0.48    | 442.8  | 23.54625  |
| 09/03/2017 | 16:23:00 | 49.7       | 59.99   | 9.12    | 47.29   | 8.9        | 8.99   | 0.55    | 442.2  | 23.205    |
| 09/03/2017 | 16:24:00 | 49.2       | 59.6    | 9.08    | 47.11   | 8.4        | 9.07   | 0.2     | 438.8  | 23.1      |
| 09/03/2017 | 16:25:00 | 49.7       | 59.75   | 9.06    | 47.07   | 10         | 9.21   | 1.45    | 440    | 22.75875  |
| 09/03/2017 | 16:26:00 | 50.2       | 60.15   | 9.17    | 47.23   | 8.8        | 9.07   | 0.56    | 450.4  | 23.59875  |
| 09/03/2017 | 16:27:00 | 52         | 59.96   | 9.23    | 47.34   | 9.3        | 9.01   | 0.67    | 453.1  | 23.65125  |
| 09/03/2017 | 16:28:00 | 53.4       | 59.65   | 9.23    | 47.48   | 8.7        | 9.01   | 0.82    | 454.6  | 23.59875  |
| 09/03/2017 | 16:29:00 | 52.7       | 59.23   | 9.18    | 47.32   | 9.2        | 8.92   | 0.98    | 452    | 23.73     |
| 09/03/2017 | 16:30:00 | 51.2       | 58.9    | 9.17    | 47.43   | 8.5        | 9.01   | 0.57    | 451.1  | 23.54625  |
| 09/03/2017 | 16:31:00 | 48.3       | 59.79   | 9.15    | 47.35   | 9.8        | 9.07   | 0.55    | 452.5  | 23.38875  |
| 09/03/2017 | 16:32:00 | 48.6       | 59.69   | 9.14    | 47.21   | 8.9        | 9.13   | 1.37    | 455.3  | 23.31     |
| 09/03/2017 | 16:33:00 | 48.7       | 59.05   | 9.11    | 47.13   | 9.9        | 9.2    | 1.48    | 455.3  | 22.81125  |
| 09/03/2017 | 16:34:00 | 46.3       | 59.6    | 9.09    | 47.07   | 8.9        | 9.21   | 0.62    | 452    | 22.49625  |

| March 9/2017 | Analyzers |          |          |          |          |          |          |          |           | Flows      |  |
|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|------------|--|
|              | CO        | HCl      | CO2      | H2O      | THC      | O2       | Opacity  | SO2      | PAC       | Flow       |  |
| Test 6       | AT-205    | AT-213A  | AT-213B  | AT-213C  | AT-259   | AT-261   | AT-263   | AT-264   | SC-PAC-FT |            |  |
| Max          | 53.4      | 62.1     | 9.5      | 48.0     | 10.4     | 9.3      | 1.6      | 483.8    |           | 23.8       |  |
| Min          | 40.9      | 52.1     | 9.0      | 47.0     | 7.6      | 8.7      | 0.1      | 433.2    |           | 22.3       |  |
| Average      | 46.6      | 58.8     | 9.2      | 47.4     | 9.0      | 8.9      | 0.8      | 453.5    |           | 23.1       |  |
| Variance     | 9.40894   | 6.668703 | 0.011235 | 0.047451 | 0.353279 | 0.024849 | 0.135633 | 143.4818 |           | 0.21887826 |  |