

## ST MARYS CEMENT INC. (CANADA)

ST. MARY'S, ONTARIO

**2025 COMPLIANCE SOURCE TESTING ECA #6394-D78PR2**

RWDI #2509873

July 25, 2025

### SUBMITTED TO

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## EXECUTIVE SUMMARY

RWDI AIR Inc. (RWDI) was retained by St. Mary's Cement Inc. (Canada) to conduct emission sampling on the kiln exhaust at their facility in St. Mary's, Ontario. The Source Testing is required under the Environmental Compliance Approval (ECA) #6394-D78PR2.

The sampling program consisted of measuring the following parameters:

- Velocity, flow rate and temperature
- Particulate Matter (PM)
- Metals (as listed in ECA)
- Semi-Volatile Organic Compounds (SVOCs) (listed as Polycyclic Organic Matter in ECA)
- Dioxins and Furans and Dioxin-like PCB's (as listed in ECA)
- Hydrogen Chloride (HCl)
- Ammonia (NH<sub>3</sub>)
- Aldehydes (Acrolein, Acetaldehyde, Propionaldehyde)
- Alcohols (Methanol, Phenol)
- Volatile Organic Matter (VOCs as listed in the ECA)
- CEMS - Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>), Oxygen (O<sub>2</sub>)

The Pre-Test Plan for this source testing was submitted on January 7, 2025, to the Ministry of Environment, Conservation and Parks (MECP). Approval for the program was granted by the MECP on January 28, 2025. Testing was conducted between April 8<sup>th</sup> and April 11<sup>th</sup>, under normal process conditions. Results from the sampling program are presented in the **Tables Section** of the report, with more detailed sampling results located in the Appendices. All parameters were tested in accordance with referenced methodologies following the MECP approved Pre-Test Plan. Additionally, the results show that emission concentrations are below those outlined in the ECA for all parameters.



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# 1 INTRODUCTION

## 1.1 Summary of Test Program

RWDI AIR Inc. (RWDI) was retained by St. Mary's Cement Inc. (Canada) to conduct emission sampling on the kiln exhaust at their facility in St. Mary's, Ontario. The Source Testing is required under the Environmental Compliance Approval (ECA) #6394-D78PR2.

The sampling program consisted of measuring the following parameters:

- Velocity, flow rate and temperature
- Particulate Matter (PM)
- Metals (as listed in ECA)
- Semi-Volatile Organic Compounds (SVOCs) (listed as Polycyclic Organic Matter in ECA)
- Dioxins and Furans and Dioxin-like PCB's (as listed in ECA)
- Hydrogen Chloride (HCl)
- Ammonia (NH<sub>3</sub>)
- Aldehydes (Acrolein, Acetaldehyde, Propionaldehyde)
- Alcohols (Methanol, Phenol)
- Volatile Organic Matter (VOCs as listed in the ECA)
- CEMS - Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>), Oxygen (O<sub>2</sub>)

The Pre-Test Plan for this source testing was submitted on January 7<sup>th</sup>, 2025, to the Ministry of Environment, Conservation and Parks (MECP). Approval for the program was granted by the MECP on January 28<sup>th</sup>, 2025. Testing was conducted between April 8<sup>th</sup>, and April 11<sup>th</sup>, under normal process conditions. Results from the sampling program are presented in the **Tables Section** of the report, with more detailed sampling results located in the Appendices.

## 1.2 Key Personnel

RWDI's field team lead for the test program was Adam Tran, and Karri Legarrie was the Senior Project Manager. The primary contact for St Mary's Cement was Kara Pelissero. A list of all participants is included in **Appendix M**.



## 2 SOURCE DESCRIPTION

### 2.1 Facility Description

The St Mary's location operates a cement manufacturing facility, having a permitted clinker production rate of 1.1 million tonnes per year. However, the normal daily maximum operation at the facility is generally 2,200 tonnes per day.

The cement plant operates 12 months per year, typically on 24 hours per day, 7 days per week schedule, with a theoretical maximum production capacity of 6,300 tonnes of clinker per day. The normal operating capacity is 5,000 to 5,500 tonnes of clinker per day.

### 2.2 Process Description

The stack testing measurements were conducted on the exhaust air from the single dry process cement kiln. Raw feed consisting of various sources of calcium oxide, silica, iron oxide and alumina are fed via a preheater tower into the kiln. The kiln is fired by a main burner and a back-end firing system which uses petroleum coke, and/or natural gas. The exhaust air from the kiln is controlled by the main kiln baghouse prior to exhaust to the atmosphere through the main stack. In addition to exhausting gases from the main kiln baghouse, the main kiln stack also exhausts air from the bypass stream controlled by a precipitator. The kiln system is also equipped with a selective non-catalytic reduction system for nitrogen oxides.

The current ECA allows for use of conventional fuels, alternative low-carbon fuels, and Adjunct Fuel Material as defined in the ECA.

### 2.3 Sample Location

The sampling location for the kiln stack is located above grade on a brick stack. This brick stack has a concrete outer shell, and enough room between the shell and the stack to setup the sampling equipment. This sampling location is considered 'ideal' as per the Ontario Source Test Code Method 1 since the nearest flow disturbances were greater than eight duct diameters upstream and two duct diameters downstream of the sample location.

At the sampling platform there are three ports, 1.2 m above the platform positioned 120° from each other. Isokinetic sampling was performed using two ports.

## 3 RESULTS

### 3.1 Objective and Test Matrix

The average emission results for this study are presented in the **Tables Section** of this report. A minimum of three tests were performed for all the parameters tested in the study. Detailed information for each test run



can be found in the appendices. The following **Table 3.1** identifies each sampling parameter, and identifies the corresponding table, and appendices to locate the results from the sampling program.

**Table 3.1:** Test Matrix Summary

| Parameter                                    | Table | Appendix |
|----------------------------------------------|-------|----------|
| Stack Gas Characteristics                    | 3     | B & C    |
| Particulate Matter and Metals                | 4     | B        |
| Dioxins and Furans                           | 5     | C        |
| PAH's                                        | 6     | C        |
| Hydrogen Chloride and Ammonia                | 7     | D        |
| Phenol and Methanol                          | 10    | E        |
| Aldehydes                                    | 9     | F        |
| CEMS (CO, CO <sub>2</sub> , O <sub>2</sub> ) | 11    | G        |
| VOC's                                        | 8     | H        |

All field notes collected during this study are presented in **Appendix K**. All laboratory results are included in **Appendix I**. All calibration information for the equipment used for this study is included in **Appendix J**.

## 3.2 Discussion of Results

The source testing conducted was a requirement of the facility ECA # 6394-D78PR2. **Table 3.2** shows a comparison of the results with their applicable limits as listed in Schedule B of the ECA. The results show that the emission concentrations are below those outlined in the ECA for all parameters.

**Table 3.2:** Results Comparison with ECA limits

| Parameter                                               | Stack Testing Results     | ECA Limit                  |
|---------------------------------------------------------|---------------------------|----------------------------|
| <b>Limits in Schedule B of the C of A (6394-D78PR2)</b> |                           |                            |
| Particulate Matter                                      | 42.6 mg/Rm <sup>3</sup>   | 50 mg/Rm <sup>3</sup>      |
| Cadmium                                                 | 0.523 µg/Rm <sup>3</sup>  | 7 µg/Rm <sup>3</sup>       |
| Lead                                                    | 20.7 µg/Rm <sup>3</sup>   | 60 µg/Rm <sup>3</sup>      |
| Mercury                                                 | < 2.61 µg/Rm <sup>3</sup> | 20 µg/Rm <sup>3</sup>      |
| Dioxins and Furans                                      | < 31.6 pg/Rm <sup>3</sup> | 80 pg/Rm <sup>3</sup> ITEQ |
| Hydrochloric Acid                                       | 9.8 mg/Rm <sup>3</sup>    | 27 mg/Rm <sup>3</sup>      |

Concentrations at 25°C, 101.3 kPa, dry and 11%O<sub>2</sub>

## 3.3 Conclusion

Testing was completed between April 8<sup>th</sup> – 11<sup>th</sup> 2025 under normal process conditions. All parameters were tested in accordance with the referenced methodologies outlined in the MECP-approved Pre-Test Plan.



## 4 SAMPLING METHODOLOGY

The following section provides an overview of the sampling methodologies used in this program. Table 1, located in the Tables Section, summarizes the testing parameters and corresponding methodologies.

### 4.1 Stack Velocity, Temperature, and Volumetric Flow Rate Determination

The exhaust velocities and flow rates were determined following the Ontario Source Testing Code (OSTC) Method 2, "Determination of Stack Gas Velocity and Flow Rate (Type S Pitot Tube)". Velocity measurements were taken with a pre-calibrated S-Type Pitot tube and incline manometer.

Volumetric flow rates were determined following the equal area method as outlined in OSTC Method 2. Temperature measurements were made simultaneously with the velocity measurements and were conducted using a chromel-alumel type "k" thermocouple in conjunction with a digital temperature indicator.

The dry molecular weight of the stack gas was determined following calculations outlined in OSTC Method 3, "Determination of Molecular Weight of Dry Stack Gas". Stack moisture content was determined through direct condensation and according to OSTC Method 4, "Determination of Moisture Content of Stack Gas".

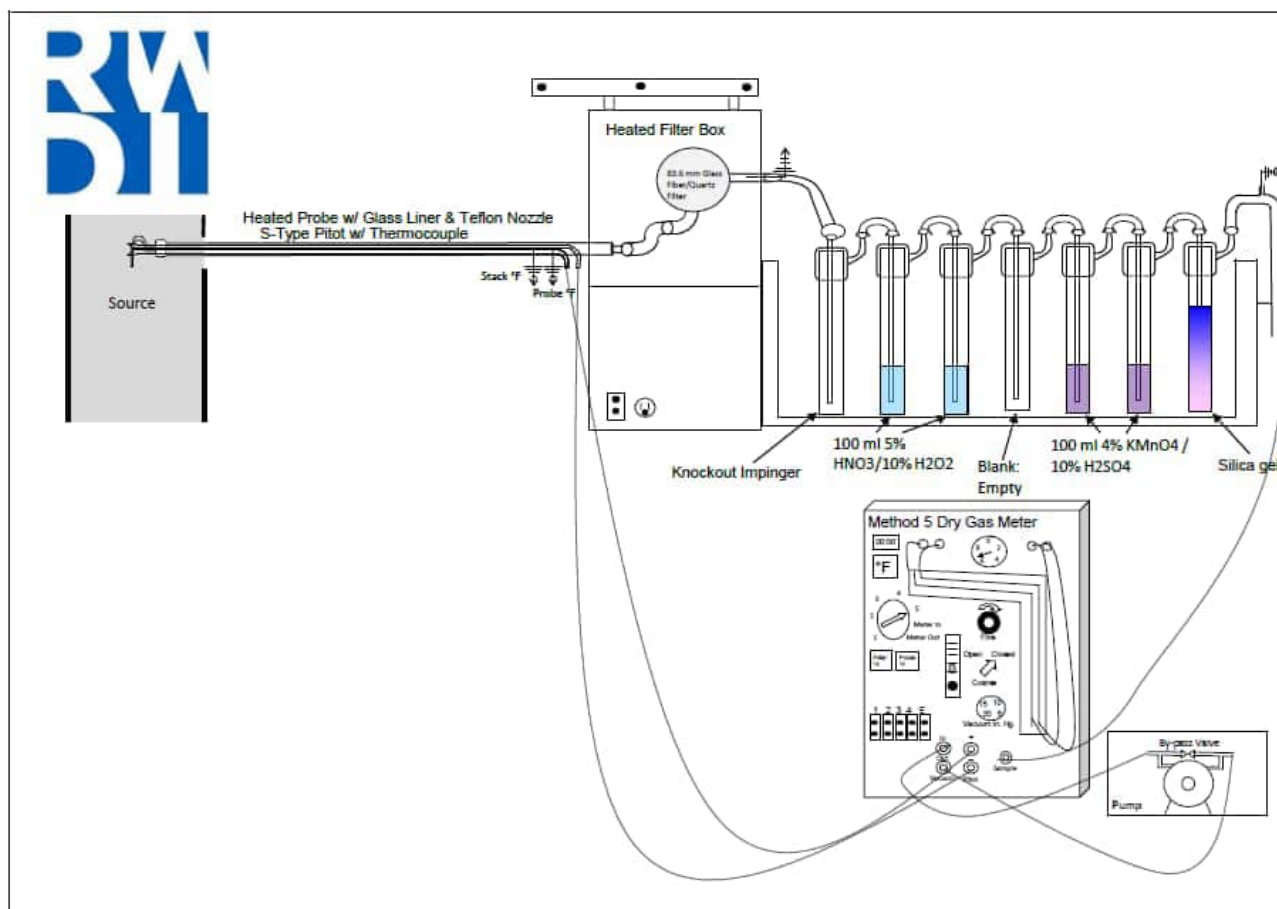
### 4.2 Sampling for Particulate Matter and Metals

Sampling for PM and metals was performed in accordance with OSTC Method 5, "Determination of Particulate Emissions from Stationary Sources" and U.S. EPA Method 29 "Determination of Metals Emissions from Stationary Sources", respectively. Both PM and metals were sampled concurrently using the same sampling train.

Sampling was conducted isokinetically using the required number of traverse points across the stack diameter. The sample was drawn through a glass lined sample probe and quartz fibre filter, which was maintained at a temperature of  $120 \pm 14^{\circ}\text{C}$  ( $248 \pm 25^{\circ}\text{F}$ ). The sample was then introduced into the impinger train. The impinger train included two (2) 5%  $\text{HNO}_3$ /10%  $\text{H}_2\text{O}_2$  absorbing solution impingers, one (1) empty impinger, two (2) impingers containing acidified  $\text{KMnO}_4$  solution and one (1) impinger containing silica gel. Particulate emissions are collected on the heated filter; gaseous emissions are collected in the hydrogen peroxide and acidified potassium permanganate solution impingers. Mercury is analyzed specifically in the permanganate solution and all metals, including mercury, are analyzed in the peroxide impingers.

For the isokinetic testing, a total of 32 points (eight (8) per traverse) were used. Sampling duration was 7.5 minutes per point (2.5 min readings) with a total sampling time per isokinetic test of 240 minutes. **Figure 4.2.1** shows a diagram of the sampling train.

Upon completion of the test, the sampling train was recovered, as in the procedures detailed in the reference method, and the samples were packaged for transport to ALS Environmental Laboratory in Burlington, Ontario for analysis.



**Figure 4.2.1:** OSTC Method 5 / US EPA Method 29 Sampling Train

### 4.3 Polyaromatic Hydrocarbons (PAH's) and Dioxin and Furan Congeners (PCDD/PCDF)

Sampling for polyaromatic hydrocarbons and dioxin and furan congeners was performed in accordance with Environment Canada Method 1/RM/2 (1/RM/2) "Measurement of Releases of Selected Semi-Volatile Organic Compounds from Stationary Sources". The dioxin and furan sampling was conducted in combination with PAH sampling from the Voluntary sampling program.

Sampling was conducted isokinetically using the required number of traverse points across the stack diameter. The sample was drawn through a glass lined sample probe and proofed glass fibre filter. Both were maintained at a temperature of  $120 \pm 14^{\circ}\text{C}$  ( $248 \pm 25^{\circ}\text{F}$ ).

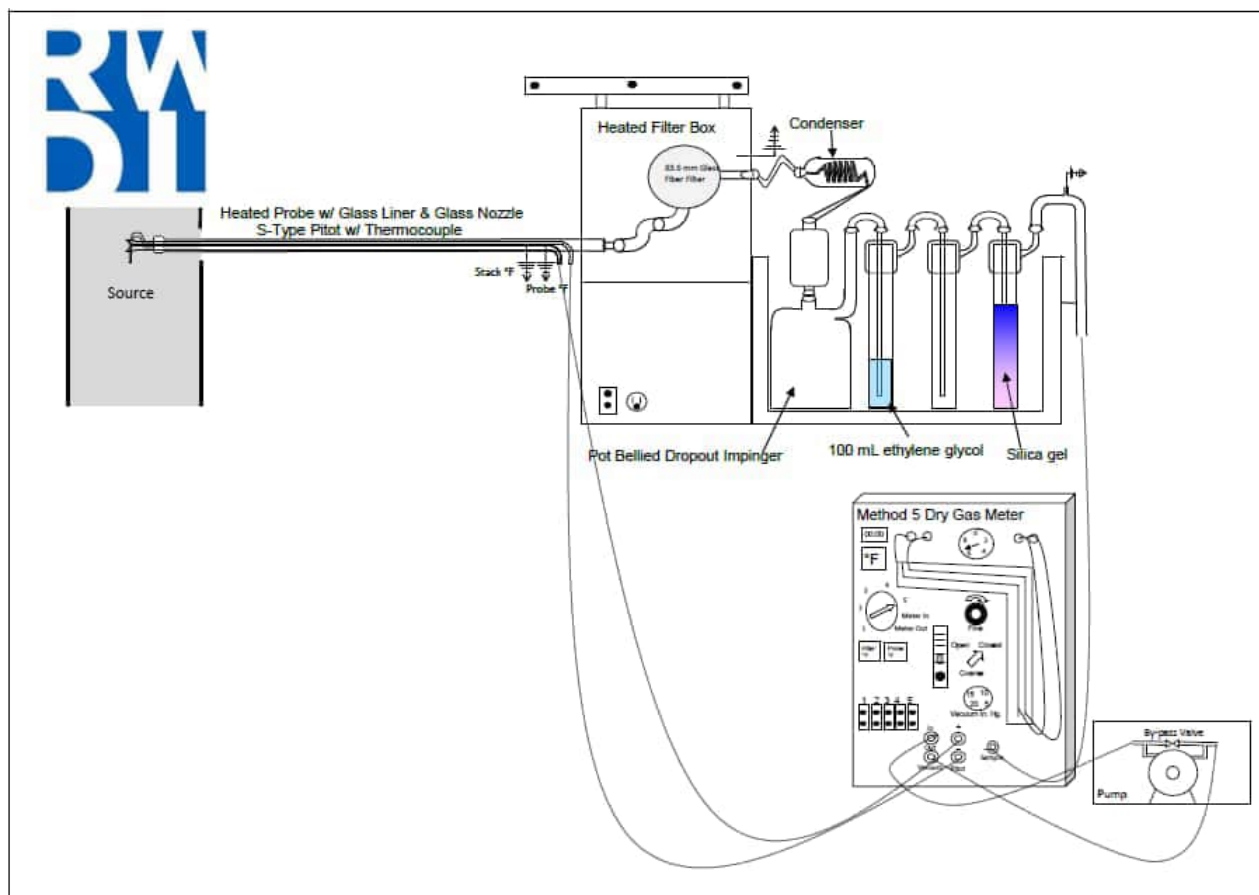
The sample then passed through a water-cooled condenser and an XAD-2 absorbent module. The temperature of the XAD-2 module was kept below 20°C. The stack gas sample was then introduced into the impinger train. The impinger train was configured as specified in the reference method.

All glassware and filters were cleaned and proofed in accordance with procedures in 1/RM/2 prior to use in the field. Cleaning, proofing, and analysis were performed by Bureau Veritas Laboratory in Mississauga, Ontario.

Upon completion of the test, the samples were kept cool and delivered to ALS Environmental Laboratory in Burlington, Ontario for analysis.

The filter, XAD-2 module, impinger catch, and all rinses were analysed for the PAH's and PCDD/PCDF's using high resolution gas chromatography / mass spectrometry.

For the isokinetic testing, a total of 32 points (eight (8) per traverse) were used. Sampling duration was 7.5 minutes per point (2.5 min readings) with a total sampling time per isokinetic test of 240 minutes. **Figure 4.3.1** shows a diagram of the sampling train.



**Figure 4.3.1:** EPS 1/RM/2 Sampling Train



## 4.4 Sampling for Hydrogen Chloride and Ammonia

Sampling for Hydrogen Chloride, and Ammonia will be completed following U.S. EPA Method 26 "Determination of Hydrogen Halide and Halogen Emissions from Stationary Sources - Non-isokinetic Method". The sampling will be conducted using a midjet impinger sampling train. The sample will be drawn through a Teflon lined probe, glass fibre filter and three-way stopcock which will be maintained at a temperature of  $120 \pm 14^{\circ}\text{C}$  ( $248 \pm 25^{\circ}\text{F}$ ). The sample will then enter the impinger train which consists of three impingers. The impingers in order include two acidic impingers, two basic impingers and a final silica impinger to dry the sample. Triplicate samples will be conducted at a collection rate of 1.5 liters per minute for a total test time of 60 minutes. Upon completion of the testing, samples were kept cool and submitted ALS Environmental Laboratory in Burlington, Ontario for analysis.

## 4.5 Sampling for Volatile Organic Compounds

Sampling for volatile organic compounds (VOC) was conducted using a volatile organic sampling train (VOST) following U.S. EPA SW846 Method 0030. Sample gas was collected on a pair of adsorbent tubes, the first containing Tenax, and the second, a combination of Tenax/charcoal. Since there was no visible condensate in the knockout flask located after the first tube, it was not recovered for analysis. Each set of tubes was sampled over a 60-minute period at 0.25 L/min. Samples were then submitted to Eurofins Laboratory in Knoxville, United States for analysis.

Like PAH and PCDD/PCDF's testing, VOST tubes were "proofed" to ensure that there was no contamination before taking any samples.

## 4.6 CEMS (Carbon Monoxide, Carbon Dioxide, Oxygen)

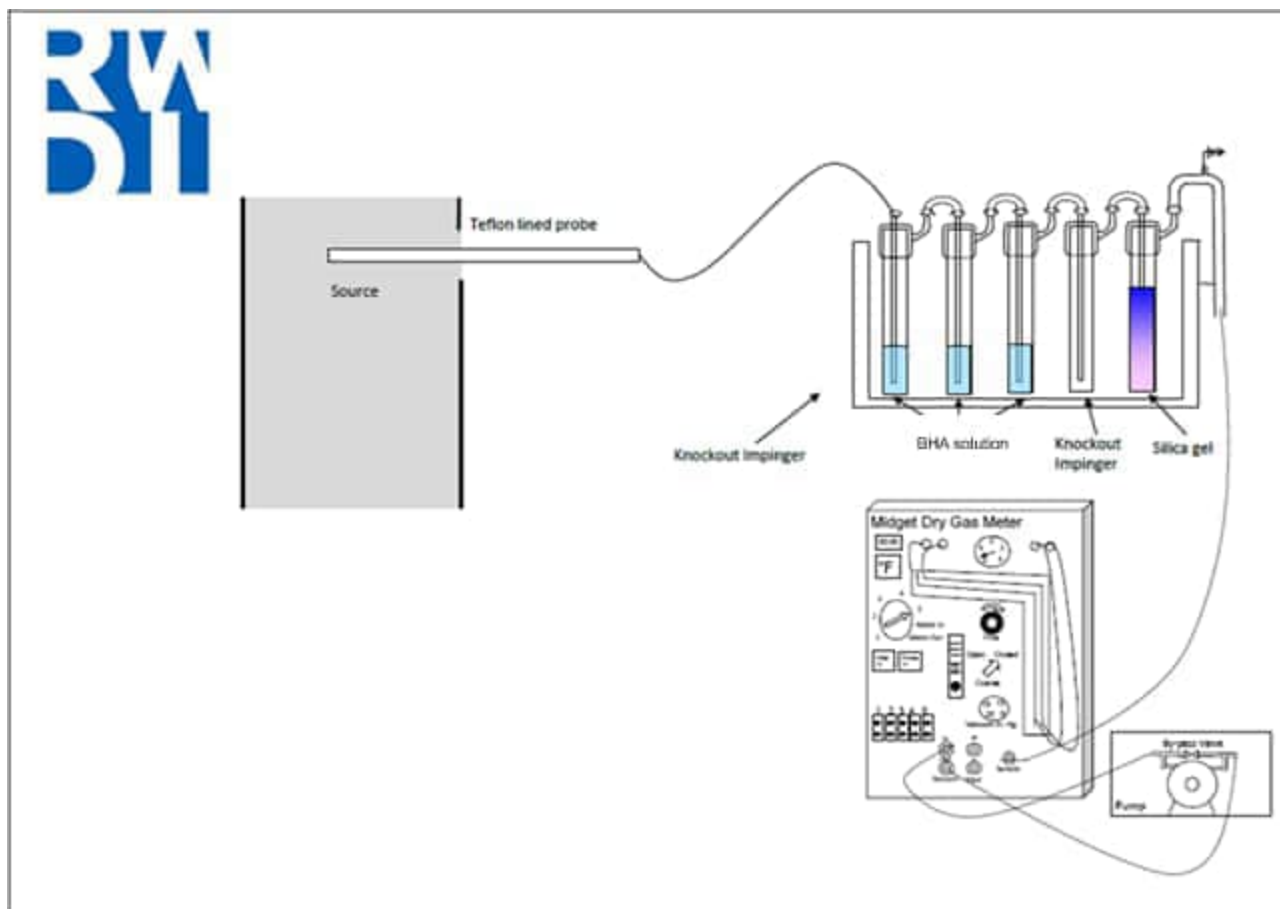
Sampling for Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>) and Oxygen (O<sub>2</sub>) was conducted following USEPA Method 10 and Method 3A using a Horiba PG-350 multi-gas analyzer. Prior to testing, sample system bias checks and instrument linearity checks (calibration error) were completed. In addition, the analysers were calibrated (zeroed and span checked) at the completion of each run.

## 4.7 Sampling for Aldehydes

Aldehyde sampling was conducted following procedures outlined in NCASI Method A105 "Impinger Source Sampling Method for Selected Aldehydes, Ketones and Polar compounds". The sampling was conducted using a midjet impinger sampling train. The sample gas passes through three chilled aqueous impingers containing o-benzylhydroxylamine (BHA) solution. The ratio of sample gas flow through the impingers to the initial BHA solution volume (both expressed as milliliters) must be between 200:1 to 4000:1. Sampling was conducted at a collection rate of 1.5 liters per minute.

There was a total of three (3) samples for aldehyde compounds collected at a single point in the stack, for a total sampling time of 60 minutes per test.

Upon completion of the test, the samples were kept cool and delivered to ALS Environmental Laboratory in Burlington, Ontario for analysis. **Figure 4.7.1** shows a diagram of the sampling train.



**Figure 4.7.1:** NCASI Method A105 Sampling Train

## 4.8 Sampling for Alcohols

The sampling for alcohols was performed using NCASI Impinger Method IM/CAN/WP-98.01. The sampling was conducted using a midget impinger sampling train. The sample was drawn through a Teflon lined probe, glass fibre filter and three-way stopcock which was maintained at a temperature of  $120 \pm 14^{\circ}\text{C}$  ( $248 \pm 25^{\circ}\text{F}$ ). The sample then entered the impinger train, which consisted of two (2) impingers containing 15 mL of distilled, deionized water. Sampling was conducted at a collection rate of 1 liter per minute.

There was a total of three (3) samples for alcohol compounds collected at a single point in the stack, for a total sampling time of 60 minutes per test.

Upon completion of the test, the samples were kept cool and delivered to ALS Environmental Laboratory in Burlington, Ontario for analysis.



## 5 QUALITY ASSURANCE/QUALITY CONTROL ACTIVITIES

Applicable quality assurance measures were implemented during the sampling program to ensure the integrity of the results. These measures included detailed documentation of field data, equipment calibrations for all measured parameters, completion of Chain of Custody forms when submitting laboratory samples, and submission of field blank samples to the laboratories. Table 2 presents a sample log and summarizes the sampling times, sample ID's, Lab ID's, and Clinker Rates.

For instances when the desired compound was less than the laboratory detection limit, the Reportable Detection Limit (RDL) was used in the calculation. A less than sign (<) is then added to the value. The < sign is used for the average concentration and emission rate, if at least one (1) sample or part of that sample is below the lab detection limit.

Leak checks were performed on the Method 5 sampling train by plugging the sample inlet and pulling a representative vacuum. This check was done before and after each test. Similar leak check procedures for pitot tube and pressure lines were also conducted. Daily temperature sensor audits were completed by noting the ambient temperature, as measured by a reference thermometer, and comparing these values to those obtained from the stack sensor. Leak checks for each test were documented on the field data sheets and presented in the applicable appendices of this report for each sample parameter.

## 6 OPERATING CONDITIONS

Operating conditions during the sampling period were monitored by St. Mary's personnel. All equipment was operated under normal maximum operating conditions.

Radio contact was kept between the process operators and the sampling team. A member of the RWDI sampling team contacted the operator before each test, to ensure that the process was at normal operating conditions.

**Appendix L** Contains the process information summarized by St Mary's.

## 7 STATEMENT OF LIMITATION

This report entitled 2025 Compliance Source Testing Program ECA #6394-D78PR2 – St. Mary's, ON: RWDI Project #2509873 dated July 25, 2025, was prepared by RWDI Air Incorporated ("RWDI") for St. Mary's Cement St. Mary's. ("Client"). The findings and conclusions presented in this report have been prepared for the client and are specific to the project described herein ("Project"). The Conclusions and recommendations contained in this report are based on the information available to RWDI when this report was prepared. The conclusions and recommendations contained in this report have also been made for the specific purpose(s) set out herein. Should the Client or any other third party utilize the report and/or implement the conclusions and recommendations contained therein for any other purpose of Project without the involvement of RWDI, the



Client or such third party assumes any and all risk of any and all consequences arising from such use and RWDI accepts no responsibility for any liability, loss or damage of any kind suffered by the Client or any other third party arising therefrom. Finally, it is imperative that the Client and/or any party relying on the results in this report carefully review the stated assumptions contained herein and to understand the different factors which may impact the results provided.

# TABLES

**Table 1 - Sampling Parameters and Methods**  
**Kiln Stack**

| Source Location | No. of Tests | Sampling Parameter                  | Sampling Method                                    |
|-----------------|--------------|-------------------------------------|----------------------------------------------------|
| Main Stack      | 6            | Velocity, Temperature and Flow Rate | OSTC <sup>[1]</sup> Methods 1-4                    |
|                 | 3            | Particulate Matter                  | OSTC <sup>[1]</sup> Method 5                       |
|                 | 3            | Metals                              | U.S. EPA <sup>[2]</sup> Method 29                  |
|                 | 3            | SVOC's, Dioxins and Furans          | Environment Canada Method RM/2                     |
|                 | 3            | Aldehydes                           | NCASI <sup>[3]</sup> Method A105                   |
|                 | 3            | HCl and Ammonia                     | U.S. EPA <sup>[2]</sup> Method 26 (non-isokinetic) |
|                 | 3            | Methanol and Phenol                 | NCASI <sup>[3]</sup> Method 98.01                  |
|                 | 3            | Volatile Organic Matter             | U.S. EPA <sup>[2]</sup> SW 846 0030 VOST           |
|                 | 3            | Carbon Monoxide                     | US EPA <sup>[2]</sup> Method 10                    |
|                 | 3            | Oxygen and Carbon Dioxide           | US EPA <sup>[2]</sup> Method 3A                    |

**Notes:**

[1] OSTC - Ontario Source Testing Code - Version 3

[2] U.S. EPA - United States Environmental Protection Agency

[3] NCASI - National Council for Air and Stream Improvement

**Table 2: Sampling Summary and Sample Log**  
**Kiln Stack**

| Source and Test #                    | Sampling Date        | Start Time | End Time | Filter ID / Trap ID | Lab Sample ID |
|--------------------------------------|----------------------|------------|----------|---------------------|---------------|
| <b>Velocity / Metals / Mercury</b>   |                      |            |          |                     |               |
| Test #1                              | 8-Apr-25             | 9:37 AM    | 12:53 PM | QZ12521             | BU2500945-004 |
| Test #2 <sup>[1]</sup>               | 8-Apr-25 to 9-Apr-25 | 2:28 PM    | 10:17 AM | QZ12567             | BU2500945-005 |
| Test #3                              | 9-Apr-25             | 11:42 AM   | 2:53 PM  | QZ12566             | BU2500945-006 |
| <b>Velocity / Dioxins and Furans</b> |                      |            |          |                     |               |
| Test #1                              | 8-Apr-25             | 9:37 AM    | 12:53 PM | XAD ID #2           | BU2500942-004 |
| Test #2 <sup>[1]</sup>               | 8-Apr-25 to 9-Apr-25 | 2:28 PM    | 10:17 AM | XAD ID #7           | BU2500942-005 |
| Test #3                              | 9-Apr-25             | 11:42 AM   | 2:53 PM  | XAD ID #11          | BU2500942-006 |
| <b>Methanol and Phenol</b>           |                      |            |          |                     |               |
| Test #1                              | 11-Apr-25            | 8:09 AM    | 9:09 AM  | -                   | 25040201-01   |
| Test #2                              | 11-Apr-25            | 9:36 AM    | 10:36 AM | -                   | 25040201-02   |
| Test #3                              | 11-Apr-25            | 10:55 AM   | 11:55 AM | -                   | 25040201-03   |
| <b>Aldehydes</b>                     |                      |            |          |                     |               |
| Test #1                              | 11-Apr-25            | 8:09 AM    | 9:09 AM  | -                   | BU2500943-001 |
| Test #2                              | 11-Apr-25            | 9:36 AM    | 10:36 AM | -                   | BU2500943-002 |
| Test #3                              | 11-Apr-25            | 10:55 AM   | 11:55 AM | -                   | BU2500943-003 |
| <b>HCl and Ammonia</b>               |                      |            |          |                     |               |
| Test #1                              | 9-Apr-25             | 9:36 AM    | 10:36 AM | -                   | BU2500944-001 |
| Test #2                              | 9-Apr-25             | 12:09 PM   | 1:09 PM  | -                   | BU2500944-002 |
| Test #3                              | 9-Apr-25             | 1:22 PM    | 2:22 PM  | -                   | BU2500944-003 |
| <b>VOST</b>                          |                      |            |          |                     |               |
| Test #1                              | 8-Apr-25             | 11:27 AM   | 12:27 PM | A080537+A080127     | 140-41580-1   |
| Test #2                              | 8-Apr-25             | 1:09 PM    | 2:09 PM  | A087911+A066832     | 140-41580-2   |
| Test #3                              | 9-Apr-25             | 11:39 AM   | 12:39 PM | A081209+A081162     | 140-41580-3   |

**Notes:**

[1] Test #2 was suspended at 3:30 pm on 8-Apr-25 and restarted at 8:07 am on 9-Apr-25 due to process operational issues.

**Table 3: Sampling Summary - Flow Characteristics**  
**Kiln Stack**

| Stack Gas Parameter                 |                   | Test No. 1 |                        |         | Test No. 2 |                        |         | Test No. 3 |                        |         | TOTAL AVERAGE |
|-------------------------------------|-------------------|------------|------------------------|---------|------------|------------------------|---------|------------|------------------------|---------|---------------|
|                                     |                   | PM, Metals | D and F <sup>[1]</sup> | Average | PM, Metals | D and F <sup>[1]</sup> | Average | PM, Metals | D and F <sup>[1]</sup> | Average | Average       |
| Testing Date                        |                   |            |                        |         |            |                        |         |            |                        |         | -             |
| Stack Temperature                   | °F                | 263        | 242                    | 253     | 284        | 271                    | 278     | 267        | 250                    | 259     | <b>263</b>    |
|                                     | °C                | 129        | 117                    | 123     | 140        | 133                    | 137     | 131        | 121                    | 126     | <b>128</b>    |
| Moisture                            | %                 | 10.6%      | 11.8%                  | 11.2%   | 10.5%      | 12.8%                  | 11.7%   | 12.6%      | 11.5%                  | 12.1%   | <b>11.6%</b>  |
| Velocity                            | ft/s              | 93.5       | 80.8                   | 87.1    | 92.4       | 79.1                   | 85.7    | 92.6       | 78.3                   | 85.5    | <b>86.1</b>   |
|                                     | m/s               | 28.5       | 24.6                   | 26.5    | 28.2       | 24.1                   | 26.1    | 28.2       | 23.9                   | 26.1    | <b>26.2</b>   |
| Actual Flow Rate                    | CFM               | 273095     | 235922                 | 254509  | 269953     | 230965                 | 250459  | 270698     | 228839                 | 249769  | <b>251579</b> |
| Referenced Flow Rate <sup>[2]</sup> | CFM               | 173538     | 152455                 | 162997  | 166959     | 141465                 | 154212  | 167165     | 147974                 | 157570  | <b>158259</b> |
|                                     | m <sup>3</sup> /s | 82         | 72                     | 77      | 79         | 67                     | 73      | 79         | 70                     | 74      | <b>75</b>     |
| Sampling Isokinetic Rate            | %                 | 100        | 100                    | 100     | 101        | 102                    | 102     | 100        | 103                    | 102     | <b>101</b>    |

**Notes :**

[1] D and F = Dioxins, Furans, and Dioxin-like PCBs

[2] Referenced flow rate expressed as dry at 101.3 kPa, 25°C, and Actual Oxygen

**Detailed sampling results including individual test results can be found in Appendix A and B**

**Table 4: PM, Metals and Mercury<sup>[1]</sup> - Averaged Results  
Kiln Stack**

| Parameter          | CAS Number        | Concentration <sup>[2]</sup> | Concentration @<br>11% O <sub>2</sub> <sup>[3]</sup> | Emission Rate |
|--------------------|-------------------|------------------------------|------------------------------------------------------|---------------|
| <b>Particulate</b> |                   | <b>(mg/m<sup>3</sup>)</b>    | <b>(mg/m<sup>3</sup>)</b>                            | <b>(mg/s)</b> |
| Particulate Matter |                   | 33.1                         | 42.6                                                 | 2640          |
| <b>Metals</b>      | <b>CAS Number</b> | <b>(µg/m<sup>3</sup>)</b>    | <b>(µg/m<sup>3</sup>)</b>                            | <b>(mg/s)</b> |
| Arsenic (As)       | 7440-38-2         | < 0.358                      | < 0.46                                               | < 0.0287      |
| Barium (Ba)        | 7440-39-3         | 8.75                         | 11.2                                                 | 0.7           |
| Beryllium (Be)     | 7440-41-7         | < 0.0564                     | < 0.0725                                             | < 0.0045      |
| Cadmium (Cd)       | 7440-43-9         | 0.407                        | 0.523                                                | 0.0324        |
| Chromium (Cr)      | 7440-47-3         | 92.1                         | 118                                                  | 7.43          |
| Cobalt (Co)        | 7440-48-4         | 0.44                         | 0.566                                                | 0.0352        |
| Copper (Cu)        | 7440-50-8         | 5.91                         | 7.6                                                  | 0.474         |
| Lead (Pb)          | 7439-92-1         | 16.1                         | 20.7                                                 | 1.28          |
| Manganese (Mn)     | 7439-96-5         | 28                           | 36                                                   | 2.24          |
| Molybdenum (Mo)    | 7439-98-7         | 6.97                         | 8.96                                                 | 0.559         |
| Nickel (Ni)        | 7440-02-0         | 14                           | 18                                                   | 1.12          |
| Selenium (Se)      | 7782-49-2         | < 0.564                      | < 0.725                                              | < 0.045       |
| Silver (Ag)        | 7440-22-4         | 0.388                        | 0.499                                                | 0.0311        |
| Thallium (Tl)      | 7440-28-0         | 2.3                          | 2.96                                                 | 0.184         |
| Vanadium (V)       | 7440-62-2         | 9.2                          | 11.8                                                 | 0.736         |
| Zinc (Zn)          | 7440-66-6         | 25.8                         | 33.2                                                 | 2.05          |
| <b>Mercury</b>     |                   | <b>(µg/m<sup>3</sup>)</b>    | <b>(µg/m<sup>3</sup>)</b>                            | <b>(mg/s)</b> |
| Total Mercury      | 7439-97-6         | < 2.03                       | < 2.61                                               | < 0.162       |

**Notes:**

[1] Sampling followed OSTC Method 5 (PM) and U.S. EPA Method 29 (Metals)

[2] Referenced concentration values are expressed at 101.3kPa, 25 ° C, actual oxygen

[3] Referenced concentration values are expressed at 101.3kPa, 25 ° C, at 11% O<sub>2</sub>

- When laboratory analysis was below the detection limit, the Reportable Detection Limit (RDL) was used to calculate the concentration and emission rate

Average of three tests

**Detailed sampling results including individual test results can be found in Appendix B**

**Table 5: Dioxins and Furans - Averaged Results<sup>[1]</sup>**  
**Kiln Stack**

| Parameter                   | CAS Number | Average Concentration <sup>[2]</sup> | Average Concentration @25°C and 11% O <sub>2</sub> <sup>[3]</sup> | Reg 419 Toxic Equivalency Factors |                                                 |                   |
|-----------------------------|------------|--------------------------------------|-------------------------------------------------------------------|-----------------------------------|-------------------------------------------------|-------------------|
|                             |            |                                      |                                                                   | TEF                               | TEF Concentration @ 25°C and 11% O <sub>2</sub> | TEF Emission Rate |
| Dioxins and Furans          | CAS Number | (pg/m <sup>3</sup> )                 | (pg/m <sup>3</sup> )                                              |                                   | (pg TEQ/m <sup>3</sup> )                        | (pg/s)            |
| 2,3,7,8-Tetra CDD *         | 1746-01-6  | < 1.89                               | < 2.42                                                            | 1                                 | < 2.42                                          | < 131             |
| 1,2,3,7,8-Penta CDD *       | 40321-76-4 | < 1.54                               | < 1.98                                                            | 1                                 | < 1.98                                          | < 107             |
| 1,2,3,4,7,8-Hexa CDD *      | 39227-28-6 | < 0.722                              | < 0.929                                                           | 0.1                               | < 0.0929                                        | < 5.02            |
| 1,2,3,6,7,8-Hexa CDD *      | 57653-85-7 | < 1.1                                | < 1.41                                                            | 0.1                               | < 0.141                                         | < 7.65            |
| 1,2,3,7,8,9-Hexa CDD *      | 19408-74-3 | < 0.572                              | < 0.735                                                           | 0.1                               | < 0.0735                                        | < 3.98            |
| 1,2,3,4,6,7,8-Hepta CDD *   | 35822-46-9 | 3.06                                 | 3.93                                                              | 0.01                              | 0.0393                                          | 2.13              |
| 1,2,3,4,6,7,8,9-Octa CDD *  | 3268-87-9  | < 4.79                               | < 6.16                                                            | 0.0003                            | < 0.00185                                       | < 0.0999          |
| 2,3,7,8-Tetra CDF **        | 51207-31-9 | 73.4                                 | 94.3                                                              | 0.1                               | 9.43                                            | 510               |
| 1,2,3,7,8-Penta CDF **      | 57117-41-6 | 16                                   | 20.6                                                              | 0.03                              | 0.618                                           | 33.4              |
| 2,3,4,7,8-Penta CDF **      | 57117-31-4 | < 28.1                               | < 36.1                                                            | 0.3                               | < 10.8                                          | < 586             |
| 1,2,3,4,7,8-Hexa CDF **     | 70648-26-9 | < 9.54                               | < 12.3                                                            | 0.1                               | < 1.23                                          | < 66.3            |
| 1,2,3,6,7,8-Hexa CDF **     | 57117-44-9 | < 5.61                               | < 7.22                                                            | 0.1                               | < 0.722                                         | < 39              |
| 2,3,4,6,7,8-Hexa CDF **     | 60851-34-5 | < 6.57                               | < 8.44                                                            | 0.1                               | < 0.844                                         | < 45.7            |
| 1,2,3,7,8,9-Hexa CDF **     | 72918-21-9 | < 1.46                               | < 1.87                                                            | 0.1                               | < 0.187                                         | < 10.1            |
| 1,2,3,4,6,7,8-Hepta CDF **  | 67562-39-4 | < 7.96                               | < 10.2                                                            | 0.01                              | < 0.102                                         | < 5.53            |
| 1,2,3,4,7,8,9-Hepta CDF **  | 55673-89-7 | < 0.709                              | < 0.912                                                           | 0.01                              | < 0.00912                                       | < 0.493           |
| 1,2,3,4,6,7,8,9-Octa CDF ** | 39001-02-0 | 2.81                                 | 3.62                                                              | 0.0003                            | 0.00108                                         | 0.0586            |
| PCBs                        | CAS Number | (pg/m <sup>3</sup> )                 | (pg/m <sup>3</sup> )                                              |                                   | (pg TEQ/m <sup>3</sup> )                        | (pg/s)            |
| 33'44'-TetraCB-(77)         | 32598-13-3 | 217                                  | 278                                                               | 0.0001                            | 0.0278                                          | 1.51              |
| 344'5-TetraCB-(81)          | 70362-50-4 | < 22.7                               | < 29.2                                                            | 0.0003                            | < 0.00876                                       | < 0.473           |
| 233'44'-PentaCB-(105)       | 32598-14-4 | < 441                                | < 568                                                             | 0.00003                           | < 0.017                                         | < 0.919           |
| 2344'5-PentaCB-(114)        | 74472-37-0 | 33                                   | 42.4                                                              | 0.00003                           | 0.00127                                         | 0.0688            |
| 23'44'5-PentaCB-(118)       | 31508-00-6 | 1030                                 | 1320                                                              | 0.00003                           | 0.0397                                          | 2.15              |
| 23'44'5'-PentaCB-(123)      | 65510-44-3 | < 22                                 | < 28.3                                                            | 0.00003                           | < 0.00085                                       | < 0.0459          |
| 33'44'5-PentaCB-(126)       | 57465-28-8 | < 20.2                               | < 26                                                              | 0.1                               | < 2.6                                           | < 140             |
| HexaCB-(156)†(157)          | 32774-16-6 | 167                                  | 215                                                               | 0.00003                           | 0.00646                                         | 0.348             |
| 23'44'55'-HexaCB-(167)      | 69782-90-7 | 83.9                                 | 108                                                               | 0.00003                           | 0.00324                                         | 0.175             |
| 33'44'55'-HexaCB-(169)      | 32774-16-6 | < 5.72                               | < 7.36                                                            | 0.03                              | < 0.221                                         | < 11.9            |
| 233'44'55'-HeptaCB-(189)    | 74472-50-7 | < 31.3                               | < 40.2                                                            | 0.00003                           | < 0.00121                                       | < 0.0653          |
| Total Toxic Equivalency     |            |                                      |                                                                   |                                   | < 31.6                                          | < 1710            |

**Notes:**

[1] Sampling followed Environment Canada Method RM/2 (Dioxin and Furans)

[2] Referenced concentration values are expressed at 101.3kPa, 25 ° C

[3] Referenced concentration values are expressed at 101.3kPa, 25 ° C, at 11% O<sub>2</sub>

Average of three tests

- When laboratory analysis was below the detection limit, the detection limit was used to calculate the concentration and emission rate.

\*CCD = Chloro Dibenzo-p-Dioxin,

\*\*CDF = Chloro Dibenzo-p-Furan

\*\*\*CB = Chloro Benzene

Detailed sampling results including individual test results can be found in Appendix C

**Table 6 - Polycyclic Aromatic Hydrocarbons (PAH's)**  
**Kiln Stack**

| Parameter                                    | CAS Number                  | Concentration <sup>[1]</sup> | Concentration @<br>11% O <sub>2</sub> <sup>[2]</sup> | Emission Rate |
|----------------------------------------------|-----------------------------|------------------------------|------------------------------------------------------|---------------|
| PAH                                          |                             | (µg/m <sup>3</sup> )         | (µg/m <sup>3</sup> )                                 | (µg/s)        |
| Acenaphthene                                 | 83-32-9                     | 10.8                         | 13.8                                                 | 745           |
| Acenaphthylene                               | 208-96-8                    | 17                           | 21.8                                                 | 1170          |
| Anthracene                                   | 120-12-7                    | 7.39                         | 9.5                                                  | 504           |
| Benzo(a)anthracene                           | 56-55-3                     | < 0.555                      | < 0.714                                              | < 37.5        |
| Benzo(b)anthracene + Chrysene + Triphenylene | 56-55-3/218-01-9 / 217-59-4 | 3.01                         | 3.87                                                 | 202           |
| Benzo(a)fluorene                             | 238-84-6                    | < 0.176                      | < 0.226                                              | < 12.2        |
| Benzo(a)pyrene                               | 50-32-8                     | < 0.176                      | < 0.226                                              | < 12.2        |
| Benzo(b)fluoranthene                         | 205-99-2                    | < 0.33                       | < 0.424                                              | < 22.5        |
| Benzo(b)fluorene                             | 243-17-4                    | < 0.251                      | < 0.323                                              | < 17.2        |
| Benzo(e)pyrene                               | 192-97-2                    | < 0.386                      | < 0.497                                              | < 26.3        |
| Benzo(g,h,i)perylene                         | 191-24-2                    | < 0.176                      | < 0.226                                              | < 12.2        |
| Benzo(j+k)fluoranthenes                      | 207-08-9/ 205-82-3          | < 0.188                      | < 0.241                                              | < 13          |
| Chloronaphthalene, 2-                        | 91-57-8                     | 7.11                         | 9.14                                                 | 485           |
| Coronene                                     | 191-07-1                    | < 0.176                      | < 0.226                                              | < 12.2        |
| Dibenzo(a,c+a,h)anthracenes                  | 53-70-3                     | < 0.176                      | < 0.226                                              | < 12.2        |
| Dimethylantracene, 9,10-                     | 781-43-1                    | < 0.391                      | < 0.503                                              | < 26.6        |
| Dimethylbenzo(a)anthracene, 7,12-            | 57-97-6                     | < 0.000586                   | < 0.000753                                           | < 0.0407      |
| Fluoranthene                                 | 206-44-0                    | 6.68                         | 8.59                                                 | 450           |
| Fluorene                                     | 86-73-7                     | 15.1                         | 19.4                                                 | 1040          |
| Indeno(1,2,3-c,d)pyrene                      | 193-39-5                    | < 0.176                      | < 0.226                                              | < 12.2        |
| Methylantracene, 2-                          | 613-12-7                    | 5.73                         | 7.37                                                 | 389           |
| Methylcholanthrene, 3-                       | 56-49-5                     | < 0.176                      | < 0.226                                              | < 12.2        |
| Methylnaphthalene, 1-                        | 90-12-0                     | 96.4                         | 124                                                  | 6680          |
| Methylnaphthalene, 2-                        | 91-57-6                     | 124                          | 159                                                  | 8570          |
| Methylphenanthrene, 1-                       | 832-69-9                    | 7.98                         | 10.3                                                 | 543           |
| Methylphenanthrene, 9-                       | 883-20-5                    | 3.12                         | 4.01                                                 | 212           |
| Naphthalene                                  | 91-20-3                     | 159                          | 205                                                  | 11000         |
| Perylene                                     | 198-55-0                    | < 0.176                      | < 0.226                                              | < 12.2        |
| Phenanthrene                                 | 85-01-8                     | 50.7                         | 65.2                                                 | 3470          |
| Picene                                       | 213-46-7                    | < 0.176                      | < 0.226                                              | < 12.2        |
| Pyrene                                       | 129-00-0                    | 4.05                         | 5.21                                                 | 273           |
| Tetralin                                     | 119-64-2                    | 24.6                         | 31.6                                                 | 1700          |

**Notes:**

[1] Referenced concentration values are expressed at 101.3kPa, 25 ° C

[2] Referenced concentration values are expressed at 101.3kPa, 25 ° C, at 11% O<sub>2</sub>

Average of three tests

- When laboratory analysis was below the detection limit, the detection limit was used to calculate the concentration and emission rate.

**Detailed sampling results including individual test results can be found in Appendix C**

**Table 7: Hydrochloric Acid and Ammonia - Averaged Results**  
**Kiln Stack**

| Parameter                  | CAS Number | Concentration <sup>[1]</sup> | Concentration @ 11% O <sub>2</sub> <sup>[2]</sup> | Concentration @ 0 °C, 10% O <sub>2</sub> <sup>[3]</sup> | Emission Rate |
|----------------------------|------------|------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------|
|                            |            | (mg/m <sup>3</sup> )         | (mg/m <sup>3</sup> )                              | (mg/m <sup>3</sup> )                                    | (mg/s)        |
| Hydrochloric Acid          | 7647-01-0  | 7.62                         | 9.8                                               | 9.89                                                    | 566           |
| Ammonia (NH <sub>3</sub> ) | 7664-41-7  | 9.79                         | 12.6                                              | 12.7                                                    | 731           |

Notes:

[1] Referenced concentration values are expressed at 101.3kPa, 25 ° C

[2] Referenced concentration values are expressed at 101.3kPa, 25 ° C, at 11% O<sub>2</sub>

Average of three tests

'<' indicates that the laboratory results were less than the Reportable Detection Limit (RDL). The RDL was used to calculate the concentration and emission rate.

**Detailed sampling results including individual test results can be found in Appendix D**

**Table 8: Volatile Organic Compounds - Averaged Results  
Kiln Stack**

| Parameter                   | CAS Number                | Concentration <sup>[1]</sup> | Concentration @<br>11% O <sub>2</sub> <sup>[2]</sup> | Concentration @<br>0°C, 10% O <sub>2</sub> <sup>[3]</sup> | Emission Rate |
|-----------------------------|---------------------------|------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------|
|                             |                           | (µg/m <sup>3</sup> )         | (µg/m <sup>3</sup> )                                 | (µg/m <sup>3</sup> )                                      | (mg/s)        |
| Acetone                     | 67-64-1                   | < 730                        | < 939                                                | < 357                                                     | < 54.3        |
| Benzene                     | 71-43-2                   | < 193                        | < 248                                                | < 94.4                                                    | < 14.4        |
| Bromodichloromethane        | 75-27-4                   | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Bromoform                   | 75-25-2                   | < 1.18                       | < 1.52                                               | < 0.579                                                   | < 0.0884      |
| Bromomethane                | 74-83-9                   | < 7.51                       | < 9.65                                               | < 3.67                                                    | < 0.559       |
| Butanone, 2 -               | 78-93-3                   | < 260                        | < 334                                                | < 127                                                     | < 19.3        |
| Carbon Tetrachloride        | 56-23-5                   | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Chloroform                  | 67-66-3                   | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Cumene                      | 98-82-8                   | < 3.37                       | < 4.33                                               | < 1.65                                                    | < 0.25        |
| Dibromochloromethane        | 124-48-1                  | < 1.18                       | < 1.52                                               | < 0.579                                                   | < 0.0884      |
| Dichlorodifluoromethane     | 75-71-8                   | < 0.998                      | < 1.28                                               | < 0.488                                                   | < 0.0741      |
| Dichloroethane, 1,2 -       | 107-06-2                  | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Dichloroethene, 1,1 -       | 75-35-4                   | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Dichloroethene, Trans - 1,2 | 156-60-5                  | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Dichloropropane, 1,2 -      | 78-87-5                   | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Ethylbenzene                | 100-41-4                  | < 59.7                       | < 76.8                                               | < 29.2                                                    | < 4.44        |
| Ethylene Dibromide          | 106-93-4                  | < 1.18                       | < 1.52                                               | < 0.579                                                   | < 0.0884      |
| Mesitylene                  | 108-67-8                  | < 13.5                       | < 17.3                                               | < 6.59                                                    | < 1           |
| Methylene Chloride          | 75-09-2                   | 459                          | 590                                                  | 224                                                       | 34.6          |
| Styrene                     | 100-42-5                  | < 79                         | < 102                                                | < 38.6                                                    | < 5.88        |
| Tetrachloroethene           | 127-18-4                  | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Toluene                     | 108-88-3                  | 135                          | 174                                                  | 66                                                        | 10            |
| Trichloroethane, 1,1,1 -    | 71-55-6                   | < 1.18                       | < 1.52                                               | < 0.579                                                   | < 0.0884      |
| Trichloroethene             | 79-01-6                   | < 0.474                      | < 0.609                                              | < 0.232                                                   | < 0.0354      |
| Trichlorofluoromethane      | 75-69-4                   | < 1.05                       | < 1.35                                               | < 0.513                                                   | < 0.0782      |
| Vinyl Chloride              | 75-01-4                   | < 5.92                       | < 7.62                                               | < 2.9                                                     | < 0.441       |
| Xylenes, M-, P- and O       | 95-47-6,108-38-3,106-42-3 | < 129                        | < 166                                                | < 63.3                                                    | < 9.62        |

**Notes:**

Analytical laboratory results - Butadiene, 1,3 - and Trichlorotrifluoroethane were not reported.

'<' indicates that the laboratory results were less than the Reportable Detection Limit (RDL). This RDL was used to calculate the concentration and emission rate.

[1] Sample volume and volumetric flow rate based on dry referenced conditions (101.3kPa, 25 °C)

[2] All referenced concentration values are expressed at 101.3kPa, 25 °C, and 11% Oxygen

[3] All referenced concentration values are expressed at 101.3kPa, 0 °C, and 10% Oxygen

Average of three tests

Detailed sampling results including individual test results can be found in Appendix H

**Table 9: Aldehydes - Averaged Results**  
**Kiln Stack**

| Parameter       | CAS Number | Concentration <sup>[1]</sup> | Concentration @<br>11% O <sub>2</sub> <sup>[2]</sup> | Emission Rate |
|-----------------|------------|------------------------------|------------------------------------------------------|---------------|
|                 |            | (mg/m <sup>3</sup> )         | (mg/m <sup>3</sup> )                                 | (mg/s)        |
| Acetaldehyde    | 75-07-0    | 24.7                         | 31.7                                                 | 1840          |
| Acrolein        | 107-02-8   | 4.8                          | 6.17                                                 | 359           |
| Propionaldehyde | 123-38-6   | 7.43                         | 9.55                                                 | 556           |

Notes:

[1] Referenced concentration values are expressed at 101.3kPa, 25 ° C

[2] Referenced concentration values are expressed at 101.3kPa, 25 ° C, at 11% O<sub>2</sub>

Average of three tests

When laboratory analysis was below the detection limit, the Reportable Detection Limit (RDL) was used to calculate the concentration and emission rate

Flow rate from isokinetic tests were used to calculate the emission rate

**Detailed sampling results including individual test results can be found in Appendix F**

**Table 10: Phenol and Methanol - Averaged Results  
Kiln Stack**

| Parameter | CAS Number | Concentration <sup>[1]</sup> | Concentration @<br>11% O <sub>2</sub> <sup>[2]</sup> | Emission Rate |
|-----------|------------|------------------------------|------------------------------------------------------|---------------|
|           |            | (mg/m <sup>3</sup> )         | (mg/m <sup>3</sup> )                                 | (mg/s)        |
| Phenol    | 108-95-2   | < 0.16                       | < 0.0885                                             | < 12          |
| Methanol  | 67-56-1    | < 0.16                       | < 0.0885                                             | < 12          |

Notes:

[1] Referenced concentration values are expressed at 101.3kPa, 25 ° C

[2] Referenced concentration values are expressed at 101.3kPa, 25 ° C, at 11% O<sub>2</sub>

Average of three tests

When laboratory analysis was below the detection limit, the Reportable Detection Limit (RDL) was used to calculate the concentration and emission rate

Flow rate from isokinetic tests were used to calculate the emission rate

**Detailed sampling results including individual test results can be found in Appendix E**

**Table 11: CEMS - Averaged Results**  
**Kiln Stack**

| Average             |                     |                     |                                        |                                        |
|---------------------|---------------------|---------------------|----------------------------------------|----------------------------------------|
| O <sub>2</sub> (%)  | CO <sub>2</sub> (%) | CO (ppm)            | CO (mg/m <sup>3</sup> ) <sup>[1]</sup> | CO (g/s) <sup>[2]</sup>                |
| 13.2                | 12.5                | 1436                | 1644                                   | 122.8                                  |
|                     |                     |                     |                                        |                                        |
| Test ID: 1          | April 8, 2025       |                     |                                        |                                        |
| Time                | O <sub>2</sub> (%)  | CO <sub>2</sub> (%) | CO (ppm)                               | CO (mg/m <sup>3</sup> ) <sup>[1]</sup> |
| 9:15 AM to 11:55 AM | 13.4                | 12.3                | 1,107                                  | 1,268                                  |
|                     |                     |                     |                                        |                                        |
| Test ID: 2          | April 8, 2025       |                     |                                        |                                        |
| Time                | O <sub>2</sub> (%)  | CO <sub>2</sub> (%) | CO (ppm)                               | CO (mg/m <sup>3</sup> ) <sup>[1]</sup> |
| 11:55 AM to 2:48 PM | 12.9                | 12.9                | 1,652                                  | 1,892                                  |
|                     |                     |                     |                                        |                                        |
| Test ID: 3          | 11-Apr-25           |                     |                                        |                                        |
| Time                | O <sub>2</sub> (%)  | CO <sub>2</sub> (%) | CO (ppm)                               | CO (mg/m <sup>3</sup> ) <sup>[1]</sup> |
| 8:15 AM to 9:58 AM  | 13.3                | 12.3                | 1,548                                  | 1,773                                  |

**Notes:**

[1] Referenced flow rate expressed as dry at 101.3 kPa, 25°C, and Actual Oxygen

[2] Emission rate calculated based on averaged volumetric flow rate of isokinetic tests

Detailed CEM results can be found in Appendix G

**Table 12: Results Comparison  
Kiln Stack**

| Parameter                                            | Stack Testing Results <sup>[1]</sup> | ECA Limit <sup>[2]</sup>   |
|------------------------------------------------------|--------------------------------------|----------------------------|
| <b>Limits in Schedule B of the ECA (6394-D78PR2)</b> |                                      |                            |
| Particulate Matter                                   | 42.6 mg/Rm <sup>3</sup>              | 50 mg/Rm <sup>3</sup>      |
| Cadmium                                              | 0.523 µg/Rm <sup>3</sup>             | 7 µg/Rm <sup>3</sup>       |
| Lead                                                 | 20.7 µg/Rm <sup>3</sup>              | 60 µg/Rm <sup>3</sup>      |
| Mercury                                              | < 2.61 µg/Rm <sup>3</sup>            | 20 µg/Rm <sup>3</sup>      |
| Dioxins and Furans                                   | < 31.6 pg/Rm <sup>3</sup>            | 80 pg/Rm <sup>3</sup> ITEQ |
| Hydrochloric Acid                                    | 9.8 mg/Rm <sup>3</sup>               | 27 mg/Rm <sup>3</sup>      |

**Notes:**

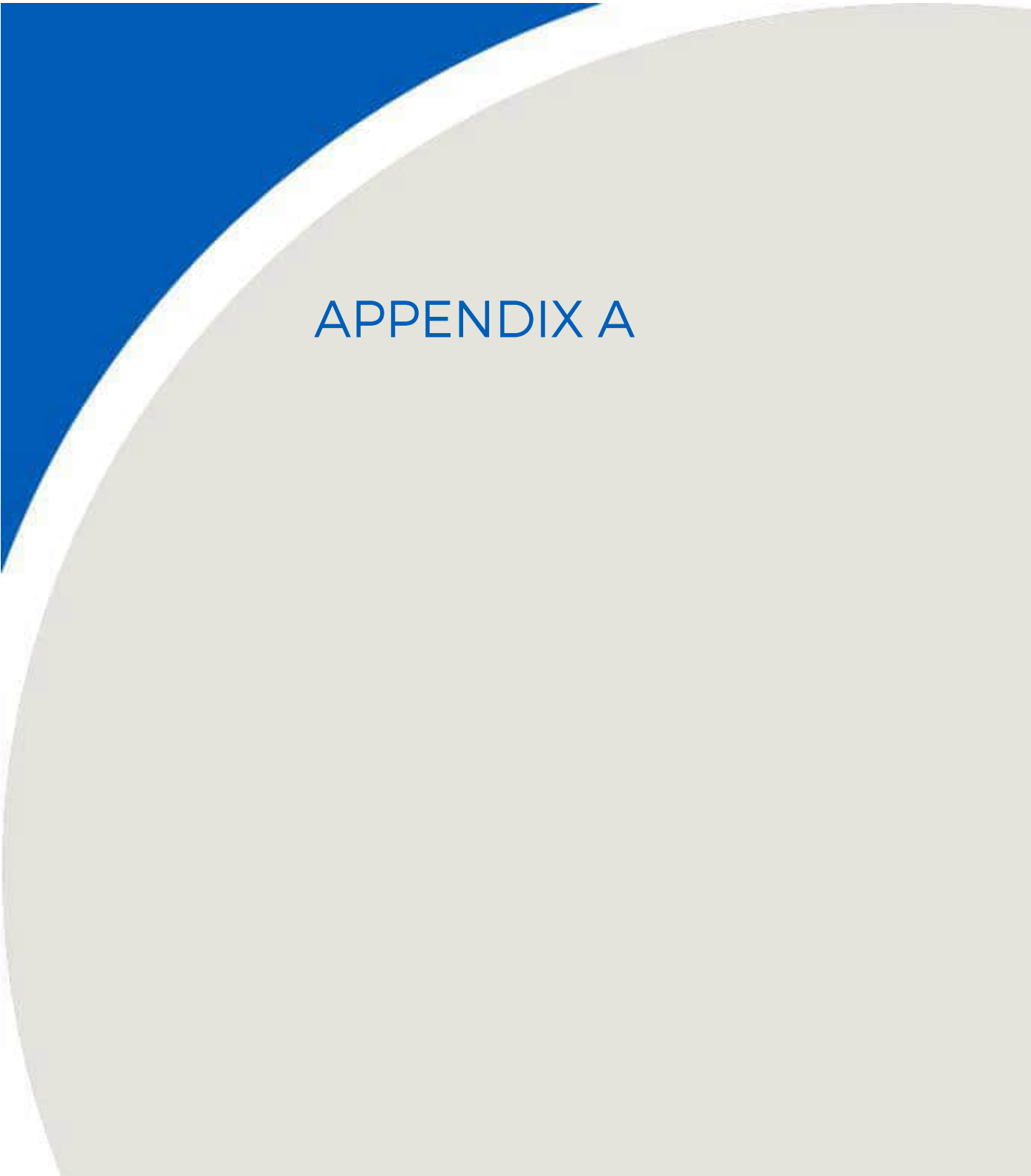
[1] - Concentration referenced to dry conditions at 25°C, 101.3kPa, and 11% oxygen

[2] – Schedule B of ECA Number 6394-D78PR2. Limits referenced to dry conditions at 25°C, 101.3kPa, and 11% oxygen

Table 13: Summary of Operating Conditions  
Kiln Stack

| Source and Test #     | Sampling Date        | Start Time | End Time | Clinker Production (tonnes/hr) | Conventional Fuel Rate Kiln (tonnes/hr) | ALCF Firing Rate | ALCF Rate %Plastic | ALCF Rate %Wood | ALCF Rate Plastic TPH | ALCF Rate Wood TPH | RM Feed | Kiln Feed | NOx (F)l(ppmv) | Opacity(l%) | SO2 (F)l(ppmv) | Stage 1 O2 - East | Stage 1 O2 - West | Stage 1 CO - East | Stage 1 CO - West | Riser Temperature | Burner Temperature | Pressure Stage 1 - East | Pressure Stage 1 - West | Pressure - Riser | Pressure - Kiln Hood | Pressure - Raw Mill |
|-----------------------|----------------------|------------|----------|--------------------------------|-----------------------------------------|------------------|--------------------|-----------------|-----------------------|--------------------|---------|-----------|----------------|-------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------------|-------------------------|------------------|----------------------|---------------------|
| M29/SVOC Test #1      | 8-Apr-25             | 9:37 AM    | 12:53 PM | 65.70                          | 5.19                                    | 3.97             | 75.00              | 25.00           | 2.98                  | 0.99               | 203.00  | 114.90    | 260.00         | 3.24        | 235.72         | 8.01              | 4.60              | 1498.80           | 3408.95           | 827.52            | 1190.95            | -352.11                 | -277.93                 | -8.87            | -3.00                | -31.27              |
| M29/SVOC Test #2      | 8-Apr-25 to 9-Apr-25 | 2:28 PM    | 10:17 AM | 67.17                          | 5.74                                    | 3.09             | 79.00              | 21.00           | 2.25                  | 0.51               | 119.70  | 112.70    | 297.00         | 4.53        | 136.50         | 8.18              | 5.67              | 1508.75           | 2773.39           | 823.00            | 1187.08            | -363.84                 | -287.62                 | -27.35           | -3.07                | -24.15              |
| M29/SVOC Test #3      | 9-Apr-25             | 11:42 AM   | 2:53 PM  | 67.57                          | 4.63                                    | 5.00             | 100.00             | 0.00            | 5.00                  | 0.00               | 223.10  | 120.20    | 194.60         | 3.46        | 271.30         | 5.95              | 4.47              | 2092.28           | 4569.90           | 830.36            | 1224.43            | -343.71                 | -277.22                 | -12.84           | -3.08                | -34.26              |
| HCl/Ammonia T1        | 9-Apr-25             | 9:36 AM    | 10:36 AM | 67.67                          | 4.78                                    | 4.43             | 92.00              | 8.00            | 4.10                  | 0.33               | 234.70  | 115.80    | 280.30         | 4.20        | 177.50         | 7.41              | 5.39              | 1644.13           | 3161.95           | 825.64            | 1218.85            | -344.69                 | -270.92                 | -14.42           | -3.04                | -39.03              |
| HCl/Ammonia T2        | 9-Apr-25             | 12:09 PM   | 1:09 PM  | 65.62                          | 4.69                                    | 5.00             | 100.00             | 0.00            | 5.00                  | 0.00               | 234.70  | 120.50    | 180.30         | 3.40        | 295.20         | 5.65              | 4.16              | 2233.94           | 4935.19           | 831.73            | 1237.94            | -343.54                 | -275.38                 | -13.00           | -3.10                | -32.92              |
| HCl/Ammonia T3        | 9-Apr-25             | 1:22 PM    | 2:22 PM  | 69.90                          | 4.57                                    | 5.00             | 100.00             | 0.00            | 5.00                  | 0.00               | 215.60  | 121.70    | 206.00         | 3.29        | 289.90         | 5.65              | 4.34              | 2088.25           | 4616.91           | 832.27            | 1237.72            | -348.58                 | -280.21                 | -18.57           | -3.08                | -31.56              |
| VOST T1               | 8-Apr-25             | 11:27 AM   | 12:27 PM | 66.93                          | 5.00                                    | 3.95             | 0.75               | 0.25            | 2.96                  | 0.99               | 198.48  | 114.48    | 237.67         | 3.15        | 214.03         | 8.33              | 4.67              | 1442.90           | 3321.36           | 825.85            | 1250.60            | -357.66                 | -280.75                 | -11.17           | -3.02                | -39.49              |
| VOST T2               | 8-Apr-25             | 1:09 PM    | 2:09 PM  | 68.09                          | 5.87                                    | 2.72             | 0.75               | 0.25            | 2.04                  | 0.68               | 63.66   | 112.96    | 225.67         | 3.82        | 149.73         | 8.59              | 5.43              | 1572.18           | 3059.63           | 823.21            | 1203.07            | -378.98                 | -300.42                 | -28.94           | -3.07                | -25.16              |
| VOST T3               | 9-Apr-25             | 11:39 AM   | 12:39 PM | 64.61                          | 4.75                                    | 5.00             | 1.00               | 0.00            | 5.00                  | 0.00               | 234.49  | 119.56    | 195.67         | 3.60        | 271.37         | 6.12              | 4.48              | 2123.46           | 4636.78           | 828.84            | 1224.52            | -343.00                 | -274.30                 | -7.72            | -3.04                | -37.51              |
| NCASI 98.01 / A105 T1 | 11-Apr-25            | 8:09 AM    | 9:09 AM  | 69.43                          | 4.29                                    | 5.00             | 1.00               | 0.00            | 5.00                  | 0.00               | 222.38  | 124.04    | 194.33         | 3.00        | 309.47         | 5.64              | 4.71              | 2159.07           | 4661.67           | 807.89            | 1141.77            | -393.47                 | -335.84                 | -10.36           | -3.05                | -36.20              |
| NCASI 98.01 / A105 T2 | 11-Apr-25            | 9:36 AM    | 10:36 AM | 61.18                          | 4.22                                    | 5.00             | 1.00               | 0.00            | 5.00                  | 0.00               | 222.36  | 125.67    | 235.33         | 2.96        | 317.07         | 5.74              | 4.48              | 2110.03           | 4579.42           | 801.33            | 1173.90            | -399.89                 | -346.03                 | -10.79           | -3.04                | -36.81              |
| NCASI 98.01 / A105 T3 | 11-Apr-25            | 10:55 AM   | 11:55 AM | 66.16                          | 4.06                                    | 5.00             | 1.00               | 0.00            | 5.00                  | 0.00               | 222.13  | 126.24    | 252.00         | 2.86        | 305.17         | 5.87              | 4.34              | 2175.95           | 4684.20           | 799.13            | 1218.35            | -401.68                 | -348.50                 | -12.65           | -3.09                | -27.63              |

Notes:  
Data supplied by SMC St Marys

The background features a large, light gray circular shape on the right side, partially overlapping a solid blue triangular shape on the left. The text 'APPENDIX A' is centered within the gray circle.

# APPENDIX A

## AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 6394-D78PR2

Issue Date: November 11, 2024

St. Marys Cement Inc. (Canada)  
55 Industrial St  
Toronto, Ontario  
M4G 3W9

**Site Location:** 585 Water St South  
St. Marys Separated Town, County of Perth  
N4X 1B6

*You have applied under section 20.2 of Part II.1 of the Environmental Protection Act ,  
R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:*

### Description Section

A cement manufacturing facility, consisting of the following processes and support units:

- Raw material delivery, storage, processing and transfers;
- Conventional Fuels processing, storage and handling;
- Alternative Low-Carbon Fuels processing, storage and handling;
- Clinker production- Cement Kiln operations;
- Clinker storage and transfer; and
- Cement production including ball mills, cement storage and shipping;

including the Equipment and any other ancillary and support processes and activities, operating at a Facility Production Limit of up to a clinker production rate of 1.1 million tonnes per year, discharging to the air as described in the Original ESDM Report.

*For the purpose of this environmental compliance approval, the following definitions apply:*

1. "ACB list" means the document entitled "Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants", as amended from time to time and published by the Ministry and available on a Government website;

2. "Acceptable Point of Impingement Concentration" means a concentration accepted by the Ministry as not likely to cause an adverse effect for a Compound of Concern that,
  - a. is not identified in the ACB list, or
  - b. is identified in the ACB list as belonging to the category "Benchmark 2" and has a concentration at a Point of Impingement that exceeds the concentration set out for the contaminant in that document.

With respect to the Original ESDM Report, the Acceptable Point of Impingement Concentration for a Compound of Concern mentioned above is the concentration set out in the Original ESDM Report;

3. "Acoustic Assessment Report" means the report, prepared in accordance with Publication NPC-233 and Appendix A of the Basic Comprehensive User Guide, by Petr Chocensky of HGC Engineering and dated August 31, 2023 submitted in support of the application, that documents all sources of noise emissions and Noise Control Measures present at the Facility, as updated in accordance with Condition 5 of this Approval;
4. "Acoustic Assessment Summary Table" means a table prepared in accordance with the Basic Comprehensive User Guide summarising the results of the Acoustic Assessment Report, as updated in accordance with Condition 5 of this Approval;
5. "Acoustic Audit" means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of the Facility, assessed to determine compliance with the Performance Limits for the Facility regarding noise emissions, completed in accordance with the procedures set in Publication NPC-103 and reported in accordance with Publication NPC-233;
6. "Acoustic Audit Report" means a report presenting the results of an Acoustic Audit, prepared in accordance with Publication NPC-233;
7. "Acoustical Consultant" means a person currently active in the field of environmental acoustics and noise/vibration control, who is familiar with Ministry noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from a Facility;
8. "Agricultural Waste" has the same meaning as defined in O. Reg. 347;
9. "Alternative Low-Carbon Fuels" means a fuel as defined in O. Reg. 79/15 and includes the materials approved under Condition 7 of this Approval;
10. "Approval" means this entire Environmental Compliance Approval and any Schedules to it;
11. "Basic Comprehensive User Guide" means the Ministry document titled "Basic

Comprehensive Certificates of Approval (Air) User Guide” dated March 2011, as amended;

12. "Best Management Practices Plan" means the document titled "Best Management Practices Plan for the Control of Fugitive Dust Emissions - St. Mary's Cement Plant" Revision 8, dated February 2022, as amended;
13. "CAEAL" means the Canadian Association for Environmental Analytical Laboratories;
14. "Carbon Dioxide Emission Intensity" has the same meaning as defined under O. Reg. 79/15;
15. "Cement Kiln" means the cement kiln, firing Conventional Fuels, Alternative Low-Carbon Fuels, hydrogen and oxygen generated from the Electrolysis System, and Fuel Adjunct Material, described in the ESDM Report, this Approval, and in the supporting documentation referred to herein;
16. "CEM System" means the continuous monitoring and recording system used to measure the emissions from the Cement Kiln stack;
17. "CPM System" means the continuous monitoring and recording system used to measure the operational parameters of the Cement Kiln;
18. "Company" means St. Mary's Cement Inc. (Canada) that is responsible for the construction or operation of the Facility and includes any successors and assigns in accordance with section 19 of the EPA;
19. "Compound of Concern" means a contaminant described in paragraph 4 subsection 26 (1) of O. Reg. 419/05, namely, a contaminant that is discharged from the Facility in an amount that is not negligible;
20. "Conventional Fuels" means solid fuels including petroleum coke and coal for regular firing and also includes diesel, propane and natural gas for preheating during start-up;
21. "Demonstration Project" means a project that:
  - a. involves the combustion of Alternative Low-Carbon Fuel, introduced through the back-end firing system of the Cement Kiln, for the purpose of manufacturing cement, at the Facility, and
  - b. is carried out for the primary purpose of assisting in the design or assessing the merits of, or substantiating and showing the merits of a technology for the combustion described in definition 21.a.;
22. "Description Section" means the section on page one of this Approval describing the Company's operations and the Equipment located at the Facility and specifying the Facility Production Limit for the Facility;

23. "Director" means a person appointed for the purpose of section 20.3 of the EPA by the Minister pursuant to section 5 of the EPA;
24. "District Manager" means the District Manager of the appropriate local district office of the Ministry, where the Facility is geographically located;
25. "Electrolysis System" means the Ultimate Cell Continuous Combustion (UC3) System described in the Original ESDM Report, or an equivalent system, where up to 30 normal cubic metres per hour of hydrogen and up to 15 normal cubic metres per hour of oxygen are generated and introduced into the fuel injection port of the cement kiln;
26. "Emission Summary Table" means a table described in paragraph 14 of subsection 26 (1) of O. Reg. 419/05;
27. "Environmental Assessment Act" means the *Environmental Assessment Act*, R.S.O. 1990, c.E.18;
28. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19;
29. "Equipment" means equipment or processes described in the ESDM Report, this Approval and in the Schedules referred to herein and any other equipment or processes;
30. "Equipment with Specific Operational Limits" means the Cement Kiln (except the fuel feed system feeding Alternative Low-Carbon Fuels, Conventional Fuels and Hydrogen to the Cement Kiln), and any other Equipment related to the thermal oxidation of waste or waste derived fuels, fume incinerators or any other Equipment that is specifically referenced in any published Ministry document that outlines specific operational guidance that must be considered by the Director in issuing an Approval;
31. "ESDM Report" means the most current Emission Summary and Dispersion Modelling Report that describes the Facility. The ESDM Report is based on the Original ESDM Report and is updated after the issuance of this Approval in accordance with section 26 of O. Reg. 419/05 and the Procedure Document;
32. "Facility" means the entire operation belonging to the Company's cement manufacturing facility located on the Property where the Equipment is located;
33. "Facility Production Limit" means the production limit placed by the Director on the main product(s) or raw materials used by the Facility;
34. "Fuel Adjunct Materials" means solid fuel, wholly used at the Facility, as supplementary fuels to coal and petroleum coke for firing the Cement Kiln, such as but not limited to carbon dust, metallurgical coke and carbon black, but which does not include Alternative Low-Carbon Fuels;
35. "Highest Ranking Person" means the highest ranking person regularly present at

the Facility who has management responsibilities relating to the Facility;

36. "Independent Acoustical Consultant" means an Acoustical Consultant who is not representing the Company and was not involved in preparing the Acoustic Assessment Report or the design/implementation of Noise Control Measures for the Facility and/or Equipment. The Independent Acoustical Consultant shall not be retained by the Acoustical Consultant involved in the noise impact assessment or the design/implementation of Noise Control Measures for the Facility and/or Equipment;
37. "Industrial By-Product Materials" means industrial by-product materials such as but not limited to iron slag from smelting industry, fly ash from coal fired generating plants, ash from waste water treatment plants and foundry sand used in casting processes, wholly used at the Facility as substitute raw material sources of calcium oxide, silica, iron oxide and alumina required for the ongoing cement manufacturing process and which do not serve as fuel for the Cement Kiln;
38. "Log" means a document that contains a record of each change that is required to be made to the ESDM Report and Acoustic Assessment Report, including the date on which the change occurred. For example, a record would have to be made of a more accurate emission rate for a source of contaminant, more accurate meteorological data, a more accurate value of a parameter that is related to a source of contaminant, a change to a Point of Impingement and all changes to information associated with a Modification to the Facility that satisfies Condition 2;
39. "Manager" means the Manager, Technology Standards Section, Technical Assessment and Standards Development Branch, or any other person who represents and carries out the duties of the Manager, Technology Standards Section, Technical Assessment and Standards Development Branch, as those duties relate to the conditions of this Approval;
40. "Minister" means the Minister of the Environment, Conservation and Parks or such other member of the Executive Council as may be assigned the administration of the EPA under the Executive Council Act;
41. "Ministry" means the ministry of the Minister;
42. "Modification" means any construction, alteration, extension or replacement of any plant, structure, equipment, apparatus, mechanism or thing, or alteration of a process or rate of production at the Facility that may discharge or alter the rate or manner of discharge of a Compound of Concern to the air or discharge or alter noise or vibration emissions from the Facility;
43. "Noise Abatement Action Plan" means the noise abatement program developed by the Company, submitted to the Director and District Manager and approved by the Director, designed to achieve compliance with the sound level limits set in

Publication NPC-300, as applicable. It also means the Noise Abatement Action Plan outlined in the Acoustic Assessment Report;

44. "Noise Control Measures" means measures to reduce the noise emissions from the Facility and/or Equipment including, but not limited to, silencers, acoustic louvres, enclosures, absorptive treatment, plenums and barriers. It also means the noise control measures outlined in the Acoustic Assessment Report;
45. "O. Reg. 79/15" means Ontario Regulation 79/15: Alternative Low-Carbon Fuels; as amended;
46. "O. Reg. 347" means Ontario Regulation 347: General – Waste Management; as amended;
47. "O. Reg. 419/05" means Ontario Regulation 419/05: Air Pollution – Local Air Quality, made under the EPA;
48. "Original ESDM Report" means the Emission Summary and Dispersion Modelling Report which was prepared in accordance with section 26 of O. Reg. 419/05 and the Procedure Document by BCX Environmental Consulting and dated June 2024 submitted in support of the application, and includes any changes to the report made up to the date of issuance of this Approval;
49. "Point of Impingement" has the same meaning as in section 2 of O. Reg. 419/05;
50. "Point of Reception" means Point of Reception as defined by Publication NPC-300;
51. "Pre-Test Plan" means a plan for the Source Testing including the information required in Section 5 of the Source Testing Code;
52. "Procedure Document" means Ministry guidance document titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated March 2018, as amended;
53. "Processes with Significant Environmental Aspects" means the Equipment which, during regular operation, would discharge one or more contaminants into the air in an amount which is not considered as negligible in accordance with section 26 (1) 4 of O. Reg. 419/05 and the Procedure Document;
54. "Property" means the single property jointly occupied by St. Marys Cement Inc. (Canada) cement manufacturing facility, the high calcium dried limestone manufacturing facility operated by Canada Building Material Co., and the dual-fuel fired truck heating system operated by Laidlaw Carriers Bulk, as described in the Company's application, this Approval and in the supporting documentation submitted with the application, to the extent approved by this Approval;
55. "Publication NPC-207" means the Ministry draft technical publication "Impulse Vibration in Residential Buildings", November 1983, supplementing the Model

Municipal Noise Control By-Law, Final Report, published by the Ministry, August 1978, as amended;

56. "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended;
57. "Publication NPC-300" means the Ministry Publication NPC-300, "Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning, Publication NPC-300", August 2013, as amended;
58. "Report EPS1/PG/7" means means the document published by Environment Canada entitled "Protocols and Performance Specifications for Continuous Monitoring of Gaseous Emissions from Thermal Power Generation";
59. "Schedules" means the following schedules attached to this Approval and forming part of this Approval namely:
  - Schedule A - Supporting Documentation
  - Schedule B - Performance Requirements - In-Stack Emission Limits
  - Schedule C - Emission Control Equipment Operational Requirements
  - Schedule D - Material Analysis Contaminants
  - Schedule E - Continuous Monitoring System Requirements
  - Schedule F - Alternative Low-Carbon Fuels Operational Requirements
  - Schedule G - Procedure for Source Testing
  - Schedule H - Test Sources and Test Contaminants
60. "Source Testing" means sampling and testing to measure emissions resulting from operating the test sources under conditions which yield the worst case emissions within the approved operating range of the test sources which satisfies paragraph 1 of subsection 11(1) of O. Reg. 419/05;
61. "Source Testing Code" means the Ontario Source Testing Code, dated June 2010, prepared by the Ministry, as amended;
62. "Toxicologist" means a qualified professional currently active in the field of risk assessment and toxicology that has a combination of formal university education, training and experience necessary to assess contaminants;
63. "Woodwaste" has the same meaning as defined in O. Reg 347; and
64. "Written Summary Form" means the electronic questionnaire form, available on the Ministry website, that documents whether Modifications were undertaken at the Facility and compliance with the Approval, in the previous calendar year.

*You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:*

## TERMS AND CONDITIONS

### 1. **GENERAL**

1. Except as otherwise provided by this Approval, the Facility shall be designed, developed, built, operated and maintained in accordance with the terms and conditions of this Approval and in accordance with the following Schedules attached hereto:
  - Schedule A - Supporting Documentation
  - Schedule B - Performance Requirements - In-Stack Emission Limits
  - Schedule C - Emission Control Equipment Operational Requirements
  - Schedule D - Material Analysis Contaminants
  - Schedule E - Continuous Monitoring System Requirements
  - Schedule F - Alternative Low-Carbon Fuels Operational Requirements
  - Schedule G - Procedure for Source Testing
  - Schedule H - Test Sources and Test Contaminants
2. The use of Alternative Low-Carbon Fuels is approved at the Facility under the requirements of O. Reg. 79/15, and pursuant to Section 3 of O. Reg. 79/15, section 27 of the EPA does not apply to the Facility.

### 2. **LIMITED OPERATIONAL FLEXIBILITY**

1. Pursuant to section 20.6 (1) of the EPA and subject to Conditions 2.2 and 2.3 of this Approval, future construction, alterations, extensions or replacements are approved in this Approval if the future construction, alterations, extensions or replacements are Modifications to the Facility that:
  - a. are within the scope of the operations of the Facility as described in the Description Section of this Approval;
  - b. do not result in an increase of the Facility Production Limit above the level specified in the Description Section of this Approval; and
  - c. result in compliance with the performance limits as specified in Condition 4.
2. Condition 2.1 does not apply to,
  - a. the addition of any new Equipment with Specific Operational Limits or to the Modification of any existing Equipment with Specific Operational Limits at the Facility;

- b. alteration of the Alternative Low-Carbon Fuels and the increase in the quantity of Alternative Low-Carbon Fuels specified in Condition 7 of this Approval; and
- c. Modifications to the Facility that would be subject to the Environmental Assessment Act.

3. Condition 2.1 of this Approval shall expire ten (10) years from the date of this Approval, unless this Approval is revoked prior to the expiry date. The Company may apply for renewal of Condition 2.1 of this Approval by including an ESDM Report and an Acoustic Assessment Report that describes the Facility as of the date of the renewal application.

### **3. REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION**

1. Prior to making a Modification to the Facility that satisfies Condition 2.1.a. and 2.1.b., the Company shall prepare a proposed update to the ESDM Report to reflect the proposed Modification.
2. The Company shall request approval of an Acceptable Point of Impingement Concentration for a Compound of Concern if the Compound of Concern is not identified in the ACB list as belonging to the category "Benchmark 1" and a proposed update to an ESDM Report indicates that one of the following changes with respect to the concentration of the Compound of Concern may occur:
  - a. The Compound of Concern was not a Compound of Concern in the previous version of the ESDM Report and
    - i. the concentration of the Compound of Concern exceeds the concentration set out for the contaminant in the ACB list; or
    - ii. the Compound of Concern is not identified in the ACB list; or
  - b. The concentration of the Compound of Concern in the updated ESDM Report exceeds the higher of,
    - i. the most recent Acceptable Point of Impingement Concentration, and
    - ii. the concentration set out for the contaminant in the ACB list, if the contaminant is identified in that document.
3. The request required by Condition 3.2 shall propose a concentration for the Compound of Concern and shall contain an assessment, performed by a Toxicologist, of the likelihood of the proposed concentration causing an adverse effect at Points of Impingement.

4. If the request required by Condition 3.2 is a result of a proposed Modification described in Condition 3.1, the Company shall submit the request, in writing, to the Director at least 30 days prior to commencing to make the Modification. The Director shall provide written confirmation of receipt of this request to the Company.
5. If a request is required to be made under Condition 3.2 in respect of a proposed Modification described in Condition 3.1, the Company shall not make the Modification mentioned in Condition 3.1 unless the request is approved in writing by the Director.
6. If the Director notifies the Company in writing that the Director does not approve the request, the Company shall,
  - a. revise and resubmit the request; or
  - b. notify the Director that it will not be making the Modification.
7. The re-submission mentioned in Condition 3.6 shall be deemed a new submission under Condition 3.2.
8. If the Director approves the request, the Company shall update the ESDM Report to reflect the Modification.
9. Condition 3 does not apply if Condition 2.1 has expired.

#### **4. PERFORMANCE LIMITS**

1. Subject to Condition 4.2, the Company shall not discharge or cause or permit the discharge of a Compound of Concern into the air if,
  - a. the Compound of Concern is identified in the ACB list as belonging to the category "Benchmark 1" and the discharge results in the concentration at a Point of Impingement exceeding the Benchmark 1 concentration; or
  - b. the Compound of Concern is not identified in the ACB list as belonging to the category "Benchmark 1" and the discharge results in the concentration at a Point of Impingement exceeding the higher of,
    - i. if an Acceptable Point of Impingement Concentration exists, the most recent Acceptable Point of Impingement Concentration, and
    - ii. the concentration set out for the contaminant in the ACB list, if the contaminant is identified in that document.
2. Condition 4.1 does not apply if the benchmark set out in the ACB list has a 10-minute averaging period and no ambient monitor indicates an exceedance at a Point of Impingement where human activities regularly occur at a time when those activities regularly occur.

3. The Company shall:
  - a. fully implement the Noise Control Measures as outlined in the Noise Abatement Action Plan by no later than August 31, 2027;
  - b. ensure subsequent to the completion of the Noise Abatement Action Plan that the noise emissions from the Facility comply with the limits in Ministry Publication NPC-300;
  - c. ensure that the Noise Control Measures are properly maintained and continue to provide the acoustic performance outlined in the Acoustic Assessment Report; and
  - d. ensure that any and all operations at the Facility are done so in accordance with the information presented in Table 1 of the Acoustic Assessment Report.
4. The Company shall ensure that the vibration emissions from the Facility comply with the limits set out in Ministry Publication NPC-207.
5. The Company shall operate any Equipment with Specific Operational Limits approved by this Approval in accordance with the Original ESDM Report.
6. The Company shall ensure that at all times when Alternative Low-Carbon Fuels are co-fired with Conventional Fuels in the Cement Kiln, the discharge from the Cement Kiln complies with the performance requirements specified in Schedule B of this Approval.

## **5. DOCUMENTATION REQUIREMENTS**

1. The Company shall maintain an up-to-date Log.
2. No later than June 30 of each year, the Company shall update the Acoustic Assessment Report and shall update the ESDM Report in accordance with section 26 of O. Reg. 419/05 so that the information in the reports is accurate as of December 31 in the previous year.
3. The Company shall make the Emission Summary Table (see section 27 of O. Reg. 419/05) and Acoustic Assessment Summary Table available for examination by any person, without charge, by posting it on the Internet or by making it available during regular business hours at the Facility.
4. The Company shall, within three (3) months after the expiry of Condition 2.1 of this Approval, update the ESDM Report and the Acoustic Assessment Report such that the information in the reports is accurate as of the date that Condition 2.1 of this Approval expired.
5. Conditions 5.1 and 5.2 do not apply if Condition 2.1 has expired.

## **6. WRITTEN SUMMARY FORM**

1. Subject to Condition 6.2, the Company shall prepare, and make available to the Ministry upon request, no later than August 31 of each year, a Written Summary Form signed by the Highest Ranking Person.
2. Condition 6.1 does not apply if:
  - a. Condition 2.1 has expired; and
  - b. the Written Summary Form has been completed for the year in which Condition 2.1 expired.

## **7. APPROVED ALTERNATIVE LOW-CARBON FUELS**

1. The following Alternative Low-Carbon Fuels are approved for use as a fuel in the Cement Kiln at the Facility:
  - a. Material that is biomass fuel derived from harvested plant and forest sources, end of life agricultural sources, Woodwaste or Agricultural Waste, and includes but is not limited to sawdust, wood chips, wood, miscanthus grass, millet, sorghum, hemp, switch grass, and maize;
  - b. Material that is comprised of non-recyclable plastics, including but not limited to manufacturing rejects, material resource recovery facility rejects, plastics bags and packaging;
  - c. Material that is comprised of construction, renovation & demolition waste, including but not limited to scrap wood, treated lumber, carpets, textiles, sawdust, floor laminates and asphalt shingles;
  - d. Material that is comprised of non-recyclable paper fiber/wood/plastic composites, including but not limited to single-serve coffee pods, printed papers, paper towels, rejects and trimmings from paper recycling facilities such as ragger tails (residue including plastic trimmings, staples, paper fibre and metal wire), end rolls and cores; and
  - e. Material that is comprised of rubber (non-tire derived), including but not limited to shredded conveyor belt rubber.
2. Notwithstanding Condition 7.1 of this Approval, the Company shall ensure that the Alternative Low-Carbon Fuels are not derived from or composed of any material set out in Schedule 1 of O. Reg. 79/15.
3. The combined amount of Alternative Low-Carbon Fuels approved under Condition 7.1 of this Approval, subjected to thermal processing in the Cement Kiln (including for the purposes of the Demonstration Project) shall not exceed 175 tonnes per day.

## **8. OPERATION AND MAINTENANCE**

1. The Company shall prepare and implement, not later than three (3) months

from the date of this Approval, operating procedures and maintenance programs for all Processes with Significant Environmental Aspects, which shall specify as a minimum:

- a. frequency of inspections and scheduled preventative maintenance;
  - b. procedures to prevent upset conditions;
  - c. procedures to minimize all fugitive emissions;
  - d. procedures to prevent and/or minimize odorous emissions;
  - e. procedures to prevent and/or minimize noise emissions;
  - f. procedures for record keeping activities relating to the operation and maintenance programs;
  - g. acceptable range of the static pressure drop for the process dust control equipment listed in Schedule C of this Approval;
  - h. program to continuously monitor and record the pressure differential across each baghouse dust collector and the applicable operational parameters of the electrostatic precipitator specified as Primary Equipment in Schedule C of this Approval, including procedures to investigate and correct the cause of any anomalous measurements of the operational parameter;
  - i. program to periodically monitor and record the pressure differential across each baghouse dust collector specified as Secondary Equipment in Schedule C of this Approval, including procedures to investigate and correct the cause of any anomalous measurements;
  - j. list of management and supervisory personnel responsible for the operation and maintenance of the emission control equipment specified in Schedule C of this Approval.
2. The Company shall maintain and update to keep current, a list of all process dust control equipment, including the following details:  
Source identification; Production building/area served; Process/location served; Stack gas flow rate; Filter area (as applicable); Stack diameter and Stack height above grade.
  3. The Company shall ensure that all Processes with Significant Environmental Aspects are operated and maintained in accordance with this Approval, the operating procedures and maintenance programs.
  4. The Company shall prepare, update as necessary and implement, not later than three (3) months prior to the implementation of Alternative Low-Carbon Fuels operation at the Facility, procedures for the handling, processing and combustion in the Cement Kiln of Alternative Low-Carbon Fuels, including but

not limited to:

- a. operating and maintenance procedures in accordance with good engineering practices and as recommended by the equipment suppliers;
  - b. start-up, shut-down and emergency measures;
  - c. procedures for handling, storage, maintenance and conveyance of Alternative Low-Carbon Fuels and the inspection of such facilities in accordance with the requirements set out in O. Reg. 79/15;
  - d. procedures for record keeping activities, including but not limited to the record keeping requirements for Alternative Low-Carbon Fuels facility inspection, and Alternative Low-Carbon Fuels use and transport, in accordance with the requirements set out in O. Reg. 79/15;
5. The Company shall ensure that the Facility/Equipment is properly designed and operated at all times while firing Alternative Low-Carbon Fuels and comply with the operational requirements set out in Schedule F of this Approval.
6. Alternative Low-Carbon Fuels shall be fired in accordance with the operating procedures and shall only be fired once the Cement Kiln has achieved normal operation, temperatures and production and shall be introduced directly into the Cement Kiln to maintain the requirements set out in Schedule F of this Approval.
7. The introduction of Alternative Low-Carbon Fuels in the Cement Kiln shall be stopped (following appropriate procedures) if:
  - a. the temperature, residual oxygen or pressure as measured by the CPM System do not meet the operational requirements outlined in Schedule F of this Approval for more than four (4) consecutive hours; or
  - b. the CPM System for one or more of the parameters specified in condition 8.7 (a) are down or malfunctioning for more than four (4) consecutive hours.
8. The Company shall comply with the following Alternative Low-Carbon Fuels storage requirements:
  - a. the Alternative Low-Carbon Fuels shall be stored indoors or in enclosed containers, and the storage location shall be secure;
  - b. the maximum amount of Alternative Low-Carbon Fuels stored and the maximum time periods for which the Alternative Low-Carbon Fuels can be stored shall be in accordance with the requirements set out in O. Reg. 79/15; and
  - c. the Alternative Low-Carbon Fuels stored shall be combusted in the

## Cement Kiln.

9. The Company shall record the following data during Cement Kiln operation:
  - a. daily combined raw feed in the Cement Kiln in tonnes per day;
  - b. daily Alternative Low-Carbon Fuels fired in the Cement Kiln in tonnes per day, for each category of Alternative Low-Carbon Fuels approved under Condition 7 of this Approval;
  - c. daily Conventional Fuels fired in the Cement Kiln in tonnes per day;
  - d. hours of operation of each of the Electrolysis System units in hours per day and the amount of hydrogen and oxygen produced by each Electrolysis System units and introduced in the cement kiln in normal cubic metres per hour;
  - e. daily Fuel Adjunct Material and Industrial By-Product Material in tonnes per day used in the Cement Kiln;
  - f. daily clinker production in tonnes per day;
  - g. records of any incidents specified in Condition 8.7 of this Approval, and
  - h. any start-up, shut-down and malfunction incidents.
10. The Company shall not engage in the Demonstration Project:
  - a. at any time after three (3) years from the date that Alternative Low-Carbon Fuel is first combusted for the purposes of the Demonstration Project;
  - b. for more than a total of ninety (90) days in any twelve (12) month period; and,
  - c. for more than thirty (30) consecutive days.
11. The Company shall within two (2) weeks notify the Director and the District Manager in writing of:
  - a. the date when Alternative Low-Carbon Fuel is first combusted at the Facility for the purposes of the Demonstration Project.

## **9. MATERIAL ANALYSIS AND CRITERIA FOR ACCEPTANCE - ALTERNATIVE LOW-CARBON FUELS, INDUSTRIAL BY-PRODUCT AND FUEL ADJUNCT MATERIAL**

1. The Company shall ensure that a material analysis program and criteria for acceptance for Alternative Low-Carbon Fuels is implemented as follows:
  - a. A protocol for Alternative Low-Carbon Fuels vendor screening, sampling and analysis shall be immediately implemented in accordance with the document "Alternative Low-Carbon Fuel Handling Procedures and

Testing Manual, St. Mary's Cement Inc. (Canada)- St. Mary's Cement Plant, Version 1.0- March, 2022 revision, as amended. At a minimum, the Alternative Low-Carbon Fuels analysis parameters shall comply with the criteria specified in Table 1, Table 2 and Table 3 of this document.

Any change in the criteria specified in Table 1, Table 2 and Table 3 shall be finalized in consultation with the District Manager.

- b. If the analysis results of the Alternative Low-Carbon Fuels indicate that the emission rates of contaminants from the Cement Kiln are higher than the maximum emission rates identified in the maximum emission scenario outlined in the ESDM Report, the Company shall update the ESDM Report with the emission rates derived from this analysis in accordance with the document "Alternative Low-Carbon Fuel Handling Procedures and Testing Manual, St. Mary's Cement Inc. (Canada)- St. Mary's Cement Plant, Version 1.0- March, 2022, as amended.
2. The Company shall ensure that the following material analysis program to measure and record the concentration of contaminants for Industrial By-Product Material and Fuel Adjunct Material is implemented as follows:
  - a. For each material used as Fuel Adjunct Materials, the Company shall obtain a metals/metal hydrides scan, including at a minimum the contaminants listed in Schedule D on a quarterly or Lot basis, as applicable. The Company shall ensure that the standard sampling methods outlined in the document "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, Standards Development Branch, December, 1996" are used, and that the samples are submitted to a CAEAL certified laboratory for analysis.
  - b. For each material used as Industrial By-Product Materials, the Company shall obtain a metals/metal hydrides scan, including at a minimum the contaminants listed in Schedule D, on a quarterly or Lot basis, as applicable. The Company shall ensure that the standard sampling methods outlined in the document "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario, Ontario Ministry of the Environment and Energy, Standards Development Branch, December, 1996" are used, and that the samples are submitted to a CAEAL certified laboratory for analysis.
  - c. At any time, should the Company either independently or through other sources reasonably expect other metal/metal hydrides not outlined under Schedule D to be present in any material at greater than the trace concentrations, the Company shall obtain the appropriate analysis

forthwith.

- d. Upon receipt of the analysis, the Company shall ensure that the Point of Impingement concentrations of metal/metal hydrides do not exceed the respective performance limits based on the maximum emissions scenario outlined in the ESDM Report.
- e. The Company shall limit the accumulation of Industrial By-Product Materials and other raw materials in exterior storage piles to amounts which may reasonably be expected to be necessary for use in the cement manufacturing processes.
- f. The Company shall ensure that any Industrial By-Product Material stored at the Facility which the Company determines cannot be utilized in ongoing cement manufacturing processes, is managed in accordance with applicable waste management regulations, and, where an Industrial By-Product Material becomes unusable, the Company shall advise the District Manager in writing, of the type and quantity of such material, the reasons why it cannot be used and the specific manner in which the material is to be managed as a waste.
- g. The Company shall continue to prepare an annual summary report documenting the use of Industrial By-Product Materials and Fuel Adjunct Materials received at the Facility for the preceding calendar year. This summary report shall be submitted to the District Manager within sixty (60) days following the close of each calendar year and shall include a summary of the information set out in Condition No. 9.1 of this Approval.

## **10. CONTINUOUS MONITORING**

### **1. Continuous Emissions Monitoring in the Kiln Stack**

- a. The Company shall ensure that the CEM System continuously monitors the following parameters in the exhaust gas stream from the Cement Kiln stack:
  - i. Nitrogen Oxides
  - ii. Sulphur Dioxide, and
  - iii. Opacity
- b. The CEM System for nitrogen oxides and sulphur dioxide shall be installed, operated, maintained and quality assurance conducted and reported in accordance with the requirements set out in Report EPS1/PG/7. The annual Relative Accuracy Test Audit (RATA) report, including the required production data during the testing shall be

submitted to the Manager and District Manager by June 30 of each year, for the previous calendar year. The quarterly cylinder gas audit reports shall be made available to the Ministry upon request.

- c. The CEM System for monitoring opacity shall comply with the requirements outlined in Schedule E.

## **2. Continuous Monitoring of Process Conditions**

- a. The Company shall install, operate and maintain a CPM System to continuously monitor:
  - i. residual oxygen at locations specified in Schedule F;
  - ii. carbon monoxide in the preheater tower;
  - iii. temperature of gases in the preheater tower, as specified in Schedule F and correspond with a retention time of not less than 10 seconds;
  - iv. pressure at locations specified in Schedule F; and,
  - v. Total Hydrocarbon (as methane) in the gases leaving the Cement Kiln stack.
- b. The CPM System specified in condition 10.2.a shall be designed, operated and maintained in accordance with an approved continuous monitoring plan, complete with specifications based on manufacturer's specifications and manuals. In this regard, the continuous monitoring plan shall be revised to assure proper calibration, maintenance and operation of the CPM System, in order to establish its performance on a continuous basis. The revised continuous monitoring plan shall be provided to the Manager for approval three (3) months prior to the implementation of the Alternative Low-Carbon Fuels operation at the Facility.

## **3. Continuous Monitoring Documentation**

- a. The Company shall prepare and retain on site monthly reports of the data monitored during the preceding month by the CEM System and CPM System, summarizing the following as a minimum:
  - i. the daily minimum, maximum and average readings for the parameters specified in condition 10 of this Approval on a monthly basis;
  - ii. the percent availability of the CEM System and CPM System for the parameters specified in condition 10 of this Approval on a monthly basis; and

- iii. daily operational status (on/off) of the raw mill and the fuel mill on a monthly basis.
- b. After one (1) month of the date of commencement of operation of the Electrolysis System, the Company shall prepare monthly reports by the end of the following month, including the data monitored during the preceding month, for the following parameters as a minimum:
  - i. the hourly average readings for the parameters specified in Conditions 10.1, 10.2 and 8.9.d. of this Approval, maintained electronically in a spreadsheet format;
  - ii. the parameters specified in Conditions 8.9.a, 8.9.b, 8.9.c, 8.9.e, and 8.9.f of this Approval.
- c. The Company shall retain the monthly reports included in Conditions 10.3.a and 10.3.b of this Approval at the Facility, and when requested provide these to the District Manager and the Manager within 15 days of the date of the request.
- d. The District Manager may relax the frequency and/or scope of the reports required under Condition 10.3 of this Approval, if the data is observed to be within the performance requirements of the Approval on a consistent basis.
- e. The Company shall establish the normal operating concentration range for total hydrocarbon for baseline conditions (operating conditions which include the use of Conventional Fuel, Fuel Adjunct Materials and Industrial By-Product Materials in the Cement Kiln) based on CPM System data. The Company shall, at a minimum on a quarterly basis, review the CPM System data and identify and investigate any anomalous total hydrocarbon concentrations when using Alternative Low-Carbon Fuels. An investigations report shall be prepared and retained on site.
- f. The Company shall retain on site, all raw data generated by the CEM System and CPM System for a minimum of five (5) years from the date of their creation.

## **11. SOURCE TESTING**

### **1. REGULAR ALCF USE (Main Burner)**

- a. The Company shall perform Source Testing in accordance with the procedure in Schedule G to determine the rate of emission of the test contaminants from the sources specified in Schedule H. Source Testing shall be conducted not later than twelve (12) months from the date of

commencement of operation of the Alternative Low-Carbon Fuels feed equipment which permits the use of Alternative Low-Carbon Fuels up to 175 tonnes per day, or within a time frame as directed or agreed to in writing by the District Manager.

- b. The Company shall notify the District Manager in writing of the details of the installed equipment, date of installation and date of commencement of operation of the Alternative Low-Carbon Fuels feed equipment which permits the use of Alternative Low-Carbon Fuels up to 175 tonnes per day within two (2) weeks of the installation and the commencement of operation.
- c. In addition to Source Testing required under Conditions 11.1.a of this Approval, Source Testing shall be repeated once every calendar year in accordance with the procedure in Schedule G to determine the rate of emission of the test contaminants from the sources specified in Schedule H. Annual Source Testing is not required to be conducted in the year in which Source Testing required under Condition 11.1 was conducted.
- d. The Source Testing required under Conditions 11.1.a and 11.1.c of this Approval shall include, as a minimum, the rates of emissions of the test contaminants from the Cement Kiln stack, when the Cement Kiln is co-fired with Conventional Fuels and Alternative Low-Carbon Fuels, at an Alternative Low-Carbon Fuels maximum approved firing rate of 175 tonnes per day, or at a firing rate agreed to in writing by the Manager, subject to the condition that operational checks of the Cement Kiln are accepted by the Company. The Alternative Low-Carbon Fuels used during the Source Testing shall contain a representative blend of the Alternative Low-Carbon Fuels approved under Condition 7 of this Approval, with considerations of the market availability of Alternative Low-Carbon Fuels types and quantities at the time of Source Testing. The blend (s) of Alternative Low-Carbon Fuels and quantity proposed to be used for the Source Testing shall be submitted along with the Pre-Test Plan to the Manager and the Director for approval, along with the details regarding the process for selection of the Alternative Low-Carbon Fuels blend (s) and quantity for Source Testing.
- e. The Company shall perform Source Testing in accordance with the procedures in Schedule G to determine the rate of emission of the test contaminants from the sources specified in Schedule H during the regular operation of the Electrolysis System. Source Testing shall be conducted not later than six (6) months from the date of commencement of operation of the Electrolysis System and shall be conducted while

Conventional Fuels and Alternative Low-Carbon Fuels are used as required for Source Testing in Condition 11.1.d of this Approval.

- f. The Company shall notify the District Manager in writing of the date of installation and the date of commencement of operation of the Electrolysis System within two (2) weeks of the installation and the commencement of operation.
- g. The District Manager may relax the frequency and/or scope of the annual Source Testing required under Condition 11.1.c of this Approval, if the results of the annual Source Testing program indicate that the emissions and Point of Impingement concentrations of Compounds of Concern are consistently recorded as insignificant when substituting a portion of Conventional Fuels with Alternative Low-Carbon Fuels.

## **2. ALCF DEMONSTRATION PROJECT USE (Back-end Riser)**

- a. The Company shall conduct Source Testing in accordance with the procedure in Schedule G, to determine the rates of emissions of the Test Contaminants from the sources specified in Schedule H. The Source Testing shall be conducted not later than one (1) year from the date of the first use of Alternative Low-Carbon Fuel in the Cement Kiln for the purposes of the Demonstration Project. As a minimum, the Source Testing shall include the following scenarios:
  - i. Baseline Conditions: the rates of emissions of the Test Contaminants from the Cement Kiln exhaust stack when it is co-fired with Conventional Fuel and Alternative Low-Carbon Fuel introduced through the Main Burner.
  - ii. Alternative Low-Carbon Fuel Co-firing Conditions: the rates of emissions of the Test Contaminants from the Cement Kiln exhaust stack when it is co-fired with Conventional Fuel and Alternative Low-Carbon Fuel (introduced through the riser), at an Alternative Low-Carbon Fuel maximum approved firing rate of 175 tonnes per day, or at a firing rate agreed to in writing by the Manager, subject to the condition that operational checks of the Cement Kiln are accepted by the Company.

## **12. CARBON DIOXIDE EMISSION INTENSITY TESTING**

- 1. The Company shall perform Carbon-Dioxide Emission Intensity testing of the representative samples of the Alternative Low-Carbon Fuels and Conventional Fuels at all times when Source Testing is carried out under Condition 11 of this Approval. Representative samples of the Alternative Low-Carbon Fuels and Conventional Fuels used during the Source Testing

events shall be used for performing Carbon-Dioxide Emission Intensity testing. The Carbon-Dioxide Emission Intensity testing shall be carried out in accordance with the requirements set out in O. Reg. 79/15.

2. The Company shall prepare a Carbon-Dioxide Emission Intensity report in respect of the Alternative Low-Carbon Fuels combusted at the site, in accordance with the requirements set out in O. Reg. 79/15, that includes a statement that the Carbon-Dioxide Emission Intensity of the Alternative Low-carbon Fuels are less than the Carbon Dioxide Emission Intensity of the Conventional Fuels in the place of which the Alternative Low-Carbon Fuels are proposed to be combusted.
3. The Company shall submit the Carbon-Dioxide Emission Intensity report along with the Source Testing report to the District Manager.

### **13. FUGITIVE EMISSIONS CONTROL**

1. The Company shall update as necessary and implement the Best Management Practices Plan for the control of fugitive dust emissions.
2. The Company shall:
  - a. review and evaluate the Best Management Practices Plan on an annual basis;
  - b. record the results of each annual review and update as required the Best Management Practices Plan within two (2) months of the completion of the annual review;
  - c. maintain the updated Best Management Practices Plan at the Facility;
  - d. implement, at all times, the most recent version of the Best Management Practices Plan.
3. The Company shall record and retain such records, each time a specific preventative and control measure described in the Best Management Practices Plans is implemented. The Company shall record, as a minimum:
  - a. the date when each emission control measure is implemented, including a description of the control measure;
  - b. the date when each new preventative measure or operating procedure to minimize emissions is implemented, including a description of the preventative measure or operating procedure; and
  - c. the date, time of commencement, and time of completion of each periodic activity conducted to minimize emissions, including a description of the preventative measure/procedure and the name of the individual performing the periodic activity.

#### **14. ODOUR ABATEMENT PLAN**

1. The Company shall implement the currently approved Odour Abatement Plan. The Company shall implement operating procedures including inspection, maintenance and monitoring initiatives to prevent or minimize odour emissions from the Facility.
2. The Company shall submit to the District Manager, during the implementation of the Odour Abatement Plan, annual odour progress report in hard copy and electronic format by March 31 of each year which shall include at a minimum:
  - a. applicable monitoring and assessment information for the previous year;
  - b. status of implementation of the Odour Abatement Plan; and
  - c. effectiveness/progress/results of the odour abatement measures implemented during the previous year.

#### **15. COMMUNITY ENGAGEMENT**

1. The Company shall continue to participate in a Community Liaison Committee (CLC). The objectives of the CLC shall include:
  - a. keeping the community informed about the operations of the Facility in relation to the potential impacts on the community;
  - b. keeping the Company informed of any community concerns about the operations of the Facility;
  - c. to serve as a forum for the Company to disseminate and exchange information with the community related to operations of the Facility; and,
  - d. to monitor the Company`s complaint response program and make recommendations to the Company with respect to this program.
2. The CLC shall not exercise any supervisory, regulatory, approval, legal or other decision making role with respect to the operations of the Facility.

#### **16. COMPLAINTS RECORDING AND REPORTING**

1. If at any time, the Company receives an environmental complaint from the public regarding the operation of the Equipment approved by this Approval, the Company shall take the following steps:
  - a. Record and number each complaint, either electronically or in a log book. The record shall include the following information: the time and date of the complaint and incident to which the complaint relates, the nature of the complaint, wind direction at the time and date of the incident to which the complaint relates and, if known, the address of the complainant.
  - b. Notify the District Manager of the complaint within two (2) business days

after the complaint is received, or in a manner acceptable to the District Manager.

- c. Initiate appropriate steps to determine all possible causes of the complaint, and take the necessary actions to appropriately deal with the cause of the subject matter of the complaint.
- d. Complete and retain on-site a report written within five (5) business days of the complaint date. The report shall list the actions taken to appropriately deal with the cause of the complaint and set out steps to be taken to avoid the recurrence of similar incidents.

## **17. RECORD KEEPING REQUIREMENTS**

- 1. Any information requested by any employee in or agent of the Ministry concerning the Facility and its operation under this Approval, including, but not limited to, any records required to be kept by this Approval, shall be provided to the employee in or agent of the Ministry, upon request, in a timely manner.
- 2. Unless otherwise specified in this Approval, the Company shall retain, for a minimum of five (5) years from the date of their creation all reports, records and information described in this Approval, including,
  - a. a copy of the Original ESDM Report and each updated version;
  - b. a copy of each version of the Acoustic Assessment Report;
  - c. supporting information used in the emission rate calculations performed in the ESDM Reports and Acoustic Assessment Reports;
  - d. the records in the Log;
  - e. copies of each Written Summary Form prepared under Condition 6.1 of this Approval;
  - f. records of maintenance, repair and inspection of Equipment related to all Processes with Significant Environmental Aspects;
  - g. all records related to environmental complaints made by the public as required by Condition 16 of this Approval;
  - h. records related to Source Testing events, as required by Condition 11 of this Approval;
  - i. records related to the operation of the CEM System and CPM System, as required by Condition 10 of this Approval;
  - j. records related to the preventative and control measures implemented, as required by Condition 13 of this Approval;

- k. records related to sampling and analysis, as required by Conditions 8 and 9 of this Approval;
- l. records related to the Odour Abatement Plan specified under Condition 14 of this Approval; and
- m. records related to Carbon Dioxide Emission Intensity testing, as required by Condition 12 of this Approval.

## **18. COMPLIANCE REPORTING**

1. The Company shall prepare and submit by June 30 of each year to the District Manager, an Annual Report summarizing the operation of the Facility, covering the previous calendar year. The Annual Report shall include, as a minimum, the following information:
  - a. a statement of whether the Facility was in compliance with this Approval, including compliance with the Performance Limits;
  - b. the Emission Summary Table and Acoustic Assessment Summary Table for the Facility as of December 31 from the previous calendar year;
  - c. clinker and cement production in tonnes per year;
  - d. maximum daily feed rate and average daily feed rate of Alternative Low-Carbon Fuels and Conventional Fuels in the Cement Kiln for each month of the preceding calendar year, and the weight percentage of each category of Alternative Low-Carbon Fuels approved under Condition 7 of this Approval, of the total monthly Alternative Low-Carbon Fuel used;
  - e. maximum and average percent thermal replacement of Conventional Fuels by combined Alternative Low-Carbon Fuels for each month;
  - f. a summary of data from CEM System, CPM System, Source Testing and Carbon Dioxide Emission Intensity testing described under Conditions 10.3(a) and (b), 11 and 12 of this Approval, and a description of the status of compliance with the Performance Limits, Alternative Low-Carbon Fuel definition under this Approval and Alternative Low-Carbon Fuels operational requirements described in Schedule F of this Approval;
  - g. a summary of dates, duration and reasons for any operational events including but not limited to events described in Condition 8.7 of this Approval that may have negatively impacted the quality of the environment and corrective measures taken to address these impacts;
  - h. details of environmental complaints including a summary of complaints

received, causes of complaints and action taken to avoid the recurrence of similar incidents, as described in Condition 16 of this Approval.

2. The Company shall make the Annual Report available for examination by any person by posting it on a Company website and making it available without charge during regular business hours at the Facility, immediately after it is submitted to the Ministry.

## **19. ACOUSTIC AUDIT**

1. The Company shall carry out Acoustic Audit measurements on the actual noise emissions due to the operation of the Facility. The Company;
  - a. shall carry out Acoustic Audit measurements in accordance with the procedures in Ministry Publication NPC-103; and,
  - b. shall submit an Acoustic Audit Report on the results of the Acoustic Audit, prepared by an Independent Acoustical Consultant, in accordance with the requirements of Ministry Publication NPC-233, to the District Manager and the Director not later than six (6) months after the completion of the Noise Abatement Action Plan.
2. The Director;
  - a. may not accept the results of the Acoustic Audit if the requirements of Ministry Publication NPC-233 were not followed; and,
  - b. may require the Company to repeat the Acoustic Audit if the results of the Acoustic Audit are found unacceptable to the Director.

## **20. REVOCATION OF PREVIOUS APPROVALS**

1. This Approval replaces and revokes all Certificates of Approval (Air) issued under section 9 EPA and Environmental Compliance Approvals issued under Part II.1 EPA to the Facility in regards to the activities mentioned in subsection 9(1) of the EPA and dated prior to the date of this Approval.

# **SCHEDULE A**

## **Supporting Documentation**

1. Environmental Compliance Approval Application, dated November 29, 2023, signed by Ruben Plaza and submitted by the Company;
2. Emission Summary and Dispersion Modelling Report, prepared by BCX Environmental Consulting and dated June 2024;
3. Carbon Dioxide Emission Intensity Report, Votorantim Cimentos North America -

Prepared by Golder Associates Ltd., March 2022;

4. Alternative Low Carbon Fuel Use at St. Marys Cement St. Mary's Plant - Consultation Report - Prepared by Golder Associates Ltd., March 2022;
5. Alternative Low Carbon Fuel Handling Procedures and Testing Manual- St. Marys Cement Inc. (Canada) - St. Mary's Cement Plant, Version 1.0, March, 2022;
6. Acoustic Assessment Report prepared by Petr Chocensky of HGC Engineering and dated March 29, 2022.
7. Acoustic Assessment Report prepared by Petr Chocensky of HGC Engineering and dated June 2, 2023.
8. Acoustic Assessment Report prepared by Petr Chocensky of HGC Engineering and dated August 31, 2023.
9. Acoustic Assessment Report Addendum prepared by Petr Chocensky of HGC Engineering and dated June 27, 2024.

## SCHEDULE B

### PERFORMANCE REQUIREMENTS - IN-STACK EMISSION LIMITS

| Parameter               | Cement Kiln Stack Emission Limit | Verification of Compliance                      |
|-------------------------|----------------------------------|-------------------------------------------------|
| Particulate Matter (PM) | 50 mg/Rm <sup>3</sup>            | Results from compliance source testing          |
| Cadmium (Cd)            | 7 µg/Rm <sup>3</sup>             | Results from compliance source testing          |
| Lead (Pb)               | 60 µg/Rm <sup>3</sup>            | Results from compliance source testing          |
| Mercury (Hg)            | 20 µg/Rm <sup>3</sup>            | Results from compliance source testing          |
| Dioxins and Furans      | 80 pg/Rm <sup>3</sup> as ITEQ    | Results from compliance source testing; results |

|                         |                       |                                        |
|-------------------------|-----------------------|----------------------------------------|
|                         |                       | expressed as I-TEQ.                    |
| Hydrochloric Acid (HCl) | 27 mg/Rm <sup>3</sup> | Results from compliance source testing |

**Notes:**

- R : Reference flue gas conditions, defined as follows:
  - Temperature 25 °C
  - Pressure 101.3 kPa
  - Oxygen content 11%
  - Water content nil (dry conditions)
- mg/Rm<sup>3</sup> : milligrams per cubic metre of gas at Reference conditions.
- µg/Rm<sup>3</sup> : micrograms per cubic metre of gas at Reference conditions.
- pg/Rm<sup>3</sup> : picograms per cubic metre of gas at Reference conditions.
- I-TEQ : a toxicity equivalent concentration calculated using the toxic equivalency factors (I-TEFs) derived for each dioxin and furan congener by comparing its toxicity to the toxicity of 2,3,7,8 tetrachloro dibenzo-p-dioxin, recommended by the World Health Organization (WHO) dioxin toxicity equivalence factors (TEFs) in 2005, and adopted by Ontario in April 2012.

## SCHEDULE C

### Emission Control Equipment Operational Requirements

#### 1. Process Dust Control Equipment Operational Requirements

The value of each of the following parameters must be referenced to the value recorded during previous source testing, if available. In the absence of source testing, each parameter must be referenced to the value or normal range representing normal operation, recorded as soon as possible for the Equipment.

##### a. Primary Equipment

Primary dust control equipment includes the Kiln Baghouse; Bypass Electrostatic Precipitator, Fuel Mill Baghouse; Clinker Cooler Baghouse and Finish Mill Baghouses.

##### i. Dust Collector

Operating parameters mean the following parameters of a fabric filter dust collector:

1. the condition of the dust collector filter bags, the ducts leading to and from the dust collector and connecting the components of the dust collector;

2. the static pressure drop across the dust collector filter bag compartments;
3. the air reservoir pressure;
4. the presence or absence of clean side deposits;
5. the frequency of cleaning;
6. the current of the induced draft fan(s); and
7. the revolutions per minute of the induced draft fan(s).

## ii. **Electrostatic Precipitator**

Operating Parameters means the following parameters of the electrostatic precipitator:

1. the condition of the electrostatic precipitator, the ducts leading to and from the electrostatic precipitator, the ducts connecting the components of the electrostatic precipitator and the electrical system;
2. the inlet temperature of the electrostatic precipitator;
3. the secondary voltages and current of the electrostatic precipitator; and
4. the presence or absence of clean side deposits in the electrostatic precipitator.

## b. **Secondary Equipment**

Secondary dust control equipment includes all other dust collectors which are not primary dust control equipment.

### i. **Dust Collector**

Operating parameters mean the following operating parameters of a fabric filter dust collector:

1. the condition of the dust collector filter bags, the ducts leading to and from the dust collector and connecting the components of the dust collector;
2. the static pressure drop across the dust collector filter bag compartments;
3. the air reservoir pressure;
4. the presence or absence of clean side deposits;
5. the frequency of cleaning; and
6. the revolutions per minute of the induced draft fan(s).

## **2. Other Emission Control Equipment**

Including but not limited to Selective Noncatalytic Reduction (SNCR) equipment.

# **SCHEDULE D**

## **MATERIAL ANALYSIS CONTAMINANTS**

1. Antimony
2. Arsenic
3. Barium
4. Beryllium
5. Cadmium
6. Chromium
7. Cobalt
8. Iron
9. Lead
10. Manganese
11. Mercury
12. Nickel
13. Selenium
14. Silver
15. Tin
16. Vanadium
17. Total Halogens

# **SCHEDULE E**

## **Continuous Monitoring System Requirements**

### **PARAMETER: Opacity**

### **INSTALLATION:**

The continuous opacity monitor shall be installed at an accessible location where the measurements are representative of the actual opacity of the gases leaving the flare

and shall meet the following design and installation specifications.

| PARAMETERS                                            | SPECIFICATION    |
|-------------------------------------------------------|------------------|
| Wavelength at Peak Spectral Response (nanometres, nm) | 500 to 600       |
| Wavelength at Mean Spectral Response (nm)             | 500 to 600       |
| Detector Angle of View                                | $\leq 5$ degrees |
| Angle of Projection                                   | $\leq 5$ degrees |
| Range (percent of opacity)                            | 0 to 100         |

## PERFORMANCE:

The Continuous Opacity Monitor shall meet the following minimum performance specifications for the following parameters.

| PARAMETERS                                           | SPECIFICATION                                    |
|------------------------------------------------------|--------------------------------------------------|
| Span Value (percent opacity)                         | 2 times the average normal opacity of the source |
| Calibration Error                                    | $\leq 3$ percent opacity                         |
| Attenuator Calibration                               | $\leq 2$ percent opacity                         |
| Response Time (95 percent response to a step change) | $\leq 10$ seconds                                |
| Schedule for Zero and Calibration Checks             | daily minimum                                    |
| Procedure for Zero and Calibration Checks            | all system components checked                    |
| Zero Calibration Drift (24-hours)                    | $\leq 2$ percent opacity                         |
| Span Calibration Drift (24-hours)                    | $\leq 2$ percent opacity                         |
| Conditioning Test Period                             | $\geq 168$ hours without corrective maintenance  |
| Operational Test Period:                             | $\geq 168$ hours without corrective maintenance  |

## CALIBRATION:

The monitor shall be calibrated, to ensure that it meets the drift limits specified above, during the periods of the operation of the Cement Kiln. The results of all calibrations shall be recorded at the time of calibration.

## DATA RECORDER:

The data recorder must be capable of registering continuously the measurement of the monitor with an accuracy of 0.5 percent of a full scale reading or better and with a time resolution of 30 seconds or better.

## RELIABILITY:

The monitor shall be operated and maintained so that accurate data is obtained during a minimum of 90 percent of the time each calendar quarter during the first full year of operation, and 95% thereafter.

## SCHEDULE F

## ALTERNATIVE LOW-CARBON FUELS OPERATIONAL REQUIREMENTS

| Parameter                                                                    | Limits                                                                                                                                                                                                                                             | Measurement                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Quantity of Alternative Low-Carbon Fuels combusted in the Cement Kiln. | 175 tonnes per day                                                                                                                                                                                                                                 | Measured continuously and summed daily.                                                                                                                                                                                                                 |
| Temperature in the Cement Kiln (in order to commence introduction of ALCF's) | <b>PRIMARY</b> - the temperature of the gas leaving the kiln reaches a minimum of 1000 Deg C; or<br><br><b>SECONDARY</b> - the temperature of the gases at Stage 4 of the preheater tower where the gas temperature reaches a minimum of 750 Deg C | Measured by the CPM System in the Burner Pipe infrared temperature probe or one of the Stage 4 temperature sensors (West or East)<br>Calculated as a rolling 1-hour arithmetic average measured by the CPM System with a minimum combined uptime of 90% |
| Residual oxygen (in order to commence introduction of ALCF's)                | The residual oxygen at Stage 1 of the preheater tower where the residual oxygen reaches a minimum of 1%                                                                                                                                            | Measured by the CPM System in either the Stage 1 West or Stage 1 East sensor and calculated by volume on a dry basis in the undiluted gases leaving the preheater tower.<br>Calculated as a rolling 1-hour arithmetic average measured by               |

|                                                                |                                                                                           |                                                                                                                                                                                              |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                |                                                                                           | the CPM System with a minimum combined uptime of 90% for both Stage 1 sensors                                                                                                                |
| Pressure Control (in order to commence introduction of ALCF's) | Kiln, Preheater tower and Raw Mill must be operated under negative pressure at all times. | Measured at the top of the preheater towers and in Raw Mill by continuous monitor. Calculated as a rolling 4-hour arithmetic average measured by the CPM System with a minimum uptime of 90% |
| Start-Up, Shut-down and Upset Operating Conditions             | No Alternative Low-Carbon Fuels shall be used.                                            | -                                                                                                                                                                                            |

## SCHEDULE G

### PROCEDURE FOR SOURCE TESTING

1. The Company shall submit, not later than three (3) months prior to the Source Testing required under Conditions 11.1.a, 11.1.e, and 11.2.a of this Approval, a Pre-Test Plan for the Source Testing required under this Approval to the Manager and the Director. In addition to the required information, the Pre-Test plan shall also include information on the blend (s) of Alternative Low-Carbon Fuels and quantity proposed to be used for the Source Testing, along with details regarding the process for selection of the Alternative Low-Carbon Fuels blend (s) and quantity for Source Testing. The Company shall finalize the Pre-Test Plan in consultation with the Manager and the Director.
2. The Company shall not commence the Source Testing until the Manager has accepted the Pre-Test Plan.
3. For subsequent Source Testing under Condition 11.1.c of this Approval:
4. The Company shall submit either a written notification of intent to use a previously approved Pre-Test Plan (with version reference if there were more than one (1) previously approved Pre-Test Plan), or a new Pre-Test Plan, to the Manager and Director not later than three (3) months of the planned date of the Source Testing for approval. The written notification or the new Pre-Test Plan shall also include information on the blend (s) of Alternative Low-Carbon Fuel and the quantity proposed to be used for the Source Testing, along with details regarding the process for selection of the blend (s) for Source Testing for its finalization in consultation with the Manager and the Director.
5. If the Company submitted a written notification of intent to use a previously approved

Pre-Test Plan, the Manager may either accept the use of a previously approved Pre-Test Plan, or request the submission of a new Pre-Test Plan for approval. The Company shall submit the requested new Pre-Test Plan within two (2) months after the Manager requested the submission.

6. The Company shall complete the subsequent Source Testing no later than three (3) months after the Manager has either agreed with the written notification or approved the new Pre-Test Plan.

7. The Company shall notify the District Manager, the Manager and the Director in writing of the location, date and time of any impending Source Testing required by this Approval, at least fifteen (15) days prior to the Source Testing.

8. The Company shall submit a report (hardcopy and electronic format) on the Source Testing to the Manager and the District Manager not later than four (4) months after completing the Source Testing, or not later than a time frame agreed in writing with the Manager. The report shall be in the format described in the Source Testing Code, and shall also include, but not be limited to:

9. an executive summary;

10. results of Source Testing, including the emission rate, emission concentration and relevant emission factor of the Test Contaminants;

11. records of operating conditions at the time of Source Testing and other information including but not limited to:

a. an executive summary

b. a summary of the results of the fuel analysis program specified in Condition 8.9 of this Approval;

c. a summary of records specified in condition 8.11 of this Approval and records of operating conditions at the time of Source Testing, including but not limited to:

i. Clinker production rate in tonnes/hour

ii. Conventional Fuels fired in the Cement Kiln in tonnes/hour

iii. Each category of the Alternative Low-Carbon Fuels described in condition 7.1 of the Approval fired in the Cement Kiln in tonnes/day;

iv. Fuel Adjunct Material and Industrial By-Product Material input into the Cement Kiln in tonnes/day;

d. any other records that may affect the Source Testing results.

12. A summary of all records of the CEM System and CPM System for the parameters

specified in Condition 10 of this Approval at the time of Source Testing;

13. A summary table that compares the Source Testing results to the emission estimates described in the Company's application, the ESDM Report and the Performance Limits;

14. The Director may not accept the results of the Source Testing if:

15. the Source Testing Code or the requirements of the Manager were not followed;

16. the Company did not notify the District Manager, the Manager and the Director of the Source Testing; or

17. the Company failed to provide a complete report on the Source Testing.

18. If the Director does not accept the results of the Source Testing, the Director may require re-testing. If re-testing is required, the Pre-Test Plan strategies need to be revised and submitted to the Manager for approval. The actions taken to minimize the possibility of the Source Testing results not being accepted by the Director must be noted in the revision.

19. If the Source Testing results are higher than the emission estimates in the Company's ESDM Report, the Company shall update their ESDM Report in accordance with Section 26 of O. Reg. 419/05 with the results from the Source Testing report and make these records available for review by staff of the Ministry upon request. The updated Emission Summary Table from the updated ESDM Report shall be submitted with the report on the Source Testing.

20. The Company shall ensure that the above mentioned Source Testing report is made available and easily accessible for review by the public at the Facility immediately after the document is submitted to the Ministry.

## **SCHEDULE H**

### **TEST CONTAMINANTS AND SOURCES**

#### **TEST SOURCES: Cement Kiln Stack**

#### **TEST CONTAMINANTS**

- Total Suspended Particulate Matter
- Hydrogen Chloride
- Ammonia

- Carbon Monoxide (CO)

#### List of Metals:

- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Copper
- Lead
- Mercury
- Manganese
- Molybdenum
- Nickel
- Selenium
- Silver
- Thallium
- Vanadium
- Zinc

## SCHEDULE H

| Volatile Organic Matter                                                                                                                                                                                                                                                                                            | List of Polycyclic Organic Matter                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Acetaldehyde</li> <li>• Acetone</li> <li>• Acrolein</li> <li>• Benzene</li> <li>• Bromodichloromethane</li> <li>• Bromoform</li> <li>• Bromomethane</li> <li>• Butadiene, 1,3 -</li> <li>• Butanone, 2 -</li> <li>• Carbon Tetrachloride</li> <li>• Chloroform</li> </ul> | <ul style="list-style-type: none"> <li>• Acenaphthylene</li> <li>• Acenaphthene</li> <li>• Anthracene</li> <li>• Benzo(a)anthracene</li> <li>• Benzo(b)fluoranthene</li> <li>• Benzo(k)fluoranthene</li> <li>• Benzo(a)fluorene</li> <li>• Benzo(b)fluorene</li> <li>• Benzo(ghi)perylene</li> <li>• Benzo(a)pyrene</li> <li>• Benzo(e)pyrene</li> </ul> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Cumene</li> <li>• Dibromochloromethane</li> <li>• Dichlorodifluoromethane</li> <li>• Dichloroethane, 1,2 -</li> <li>• Dichloroethene, Trans - 1,2</li> <li>• Dichloroethene, 1,1 -</li> <li>• Dichloropropane, 1,2 -</li> <li>• Ethylbenzene</li> <li>• Ethylene Dibromide</li> <li>• Mesitylene</li> <li>• Methanol</li> <li>• Methylene Chloride</li> <li>• Phenol</li> <li>• Propionaldehyde</li> <li>• Styrene</li> <li>• Tetrachloroethene</li> <li>• Toluene</li> <li>• Trichloroethane, 1,1,1 -</li> <li>• Trichloroethene</li> <li>• Trichloroethylene, 1,1,2 -</li> <li>• Trichlorotrifluoroethane</li> <li>• Trichlorofluoromethane</li> <li>• Xylenes, M-, P- and O</li> <li>• Vinyl Chloride</li> </ul> | <ul style="list-style-type: none"> <li>• 2-Chloronaphthalene</li> <li>• Chrysene</li> <li>• Coronene</li> <li>• Dibenzo(a,c)anthracene</li> <li>• 9,10-Dimethylanthracene</li> <li>• 7,12-Dimethylbenzo(a)anthracene</li> <li>• Fluoranthene</li> <li>• Fluorene</li> <li>• Indeno(1,2,3-cd)pyrene</li> <li>• 2-Methylanthracene</li> <li>• 3-Methylcholanthrene</li> <li>• 1-Methylnaphthalene</li> <li>• 2-Methylnaphthalene</li> <li>• 1-Methylphenanthrene</li> <li>• 9-Methylphenanthrene</li> <li>• Naphthalene</li> <li>• Perylene</li> <li>• Phenanthrene</li> <li>• Picene</li> <li>• Pyrene</li> <li>• Tetralin</li> <li>• Triphenylene</li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SCHEDULE H

### Dioxins, Furans and Dioxin-like PCBs (Polychlorinated Biphenyls)

Toxicity equivalency factors (TEFs) are applied to 29 isomers of dioxins, furans and dioxin-like PCBs to convert them into 2,3,7,8-CDD (tetrachlorodibenzo-p-dioxin) toxicity equivalents (TEQ). The conversion involves multiplying the concentration of each isomer by the appropriate TEF to yield the TEQ for this isomer. Summing the individual TEQ values for each of the isomers provides the total toxicity equivalent level for the sample mixture.

A table listing the isomers and their TEFs can be found in the Ministry publication titled “Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants”, as amended from time to time.

| No. | Dioxins, Furans, and Dioxin-like PCBs                             | CASRN      | WHO 2005<br>Toxic<br>Equivalency<br>Factors<br>[TEFs] |
|-----|-------------------------------------------------------------------|------------|-------------------------------------------------------|
| 1   | 2,3,7,8-Tetrachlorodibenzo-p-dioxin [2,3,7,8-TCDD]                | 1746-01-6  | 1                                                     |
| 2   | 1,2,3,7,8-Pentachlorodibenzo-p-dioxin [1,2,3,7,8-PeCDD]           | 40321-76-4 | 1                                                     |
| 3   | 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin [1,2,3,4,7,8-HxCDD]        | 39227-28-6 | 0.1                                                   |
| 4   | 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin [1,2,3,6,7,8-HxCDD]        | 57653-85-7 | 0.1                                                   |
| 5   | 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin [1,2,3,7,8,9-HxCDD]        | 19408-74-3 | 0.1                                                   |
| 6   | 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin [1,2,3,4,6,7,8-HpCDD]   | 35822-46-9 | 0.01                                                  |
| 7   | 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin [1,2,3,4,6,7,8,9-OCDD] | 3268-87-9  | 0.0003                                                |
| 8   | 2,3,7,8-Tetrachlorodibenzofuran [2,3,7,8-TCDF]                    | 51207-31-9 | 0.1                                                   |
| 9   | 1,2,3,7,8-Pentachlorodibenzofuran [1,2,3,7,8-PeCDF]               | 57117-41-6 | 0.03                                                  |
| 10  | 2,3,4,7,8-Pentachlorodibenzofuran [2,3,4,7,8-PeCDF]               | 57117-31-4 | 0.3                                                   |
| 11  | 1,2,3,4,7,8-Hexachlorodibenzofuran [1,2,3,4,7,8-HxCDF]            | 70648-26-9 | 0.1                                                   |
| 12  | 1,2,3,6,7,8-Hexachlorodibenzofuran [1,2,3,6,7,8-HxCDF]            | 57117-44-9 | 0.1                                                   |
| 13  | 1,2,3,7,8,9-Hexachlorodibenzofuran [1,2,3,7,8,9-HxCDF]            | 72918-21-9 | 0.1                                                   |

## SCHEDULE H

| No. | Dioxins, Furans, and Dioxin-like PCBs                         | CASRN      | WHO 2005<br>Toxic<br>Equivalency<br>Factors<br>[TEFs] |
|-----|---------------------------------------------------------------|------------|-------------------------------------------------------|
| 14  | 2,3,4,6,7,8-Hexachlorodibenzofuran [2,3,4,6,7,8-HxCDF]        | 60851-34-5 | 0.1                                                   |
| 15  | 1,2,3,4,6,7,8-Heptachlorodibenzofuran [1,2,3,4,6,7,8-HpCDF]   | 67562-39-4 | 0.01                                                  |
| 16  | 1,2,3,4,7,8,9-Heptachlorodibenzofuran [1,2,3,4,7,8,9-HpCDF]   | 55673-89-7 | 0.01                                                  |
| 17  | 1,2,3,4,6,7,8,9-Octachlorodibenzofuran [1,2,3,4,6,7,8,9-OCDF] | 39001-02-0 | 0.0003                                                |
| 18  | 3,3',4,4'-Tetrachlorobiphenyl [3,3',4,4'-tetraCB (PCB 77)]    | 32598-13-3 | 0.0001                                                |
| 19  | 3,4,4',5- Tetrachlorobiphenyl [3,4,4',5-tetraCB (PCB 81)]     | 70362-50-4 | 0.0003                                                |
| 20  | 3,3',4,4',5- Pentachlorobiphenyl (PCB 126) [3,3',4,4',5-      | 57465-28-8 | 0.1                                                   |

|    |                                                                            |            |         |
|----|----------------------------------------------------------------------------|------------|---------|
|    | pentaCB (PCB 126)]                                                         |            |         |
| 21 | 3,3',4,4',5,5'- Hexachlorobiphenyl [3,3',4,4',5,5'-hexaCB (PCB 169)]       | 32774-16-6 | 0.03    |
| 22 | 2,3,3',4,4'- Pentachlorobiphenyl [2,3,3',4,4'-pentaCB (PCB 105)]           | 32598-14-4 | 0.00003 |
| 23 | 2,3,4,4',5- Pentachlorobiphenyl [2,3,4,4',5-pentaCB (PCB 114)]             | 74472-37-0 | 0.00003 |
| 24 | 2,3',4,4',5- Pentachlorobiphenyl [2,3',4,4',5-pentaCB (PCB 118)]           | 31508-00-6 | 0.00003 |
| 25 | 2',3,4,4',5- Pentachlorobiphenyl [2',3,4,4',5-pentaCB (PCB 123)]           | 65510-44-3 | 0.00003 |
| 26 | 2,3,3',4,4',5- Hexachlorobiphenyl [2,3,3',4,4',5-hexaCB (PCB 156)]         | 38380-08-4 | 0.00003 |
| 27 | 2,3,3',4,4',5'- Hexachlorobiphenyl [2,3,3',4,4',5'-hexaCB (PCB 157)]       | 69782-90-7 | 0.00003 |
| 28 | 2,3',4,4',5,5'- Hexachlorobiphenyl [2,3',4,4',5,5'-hexaCB (PCB 167)]       | 52663-72-6 | 0.00003 |
| 29 | 2,3,3',4,4',5,5'- Heptachlorobiphenyl [2,3,3',4,4',5,5'-heptaCB (PCB 189)] | 39635-31-9 | 0.00003 |

## SCHEDULE H

### NOTE:

The TEF scheme is intended to be used with isomer specific analytical results. In cases where results are reported by congener group only, staff at Ministry's Technical Assessment and Standards Development Branch shall be contacted for appropriate procedures to convert non-isomer specific data to TEQs.

*The reasons for the imposition of these terms and conditions are as follows:*

#### 1. GENERAL

Condition No. 1 is included to require the Approval holder to build, operate and maintain the Facility in accordance with the Supporting Documentation in Schedule A considered by the Director in issuing this Approval.

#### 2. LIMITED OPERATIONAL FLEXIBILITY, REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION AND PERFORMANCE LIMITS

Conditions No. 2, 3 and 4 are included to limit and define the Modifications permitted by this Approval, and to set out the circumstances in which the Company shall request approval of an Acceptable Point of Impingement Concentration prior to making Modifications. The holder of the Approval is approved for operational flexibility for the Facility that is consistent with the description of the operations included with the application up to the Facility

Production Limit. In return for the operational flexibility, the Approval places performance based limits that cannot be exceeded under the terms of this Approval. Approval holders will still have to obtain other relevant approvals required to operate the Facility, including requirements under other environmental legislation such as the Environmental Assessment Act.

**3. DOCUMENTATION REQUIREMENTS**

Condition No. 5 is included to require the Company to maintain ongoing documentation that demonstrates compliance with the performance limits as specified in Condition 4 of this Approval and allows the Ministry to monitor on-going compliance with these performance limits. The Company is required to have an up to date ESDM Report and Acoustic Assessment Report that describe the Facility at all times and make the Emission Summary Table and Acoustic Assessment Summary Table from these reports available to the public on an ongoing basis in order to maintain public communication with regard to the emissions from the Facility.

**4. WRITTEN SUMMARY FORM**

Condition No. 6 is included to require the Company to provide a yearly Written Summary Form to the Ministry, to assist the Ministry with the review of the site's compliance with the EPA, the regulations and this Approval.

**5. APPROVED ALTERNATIVE LOW-CARBON FUELS**

Condition No. 7 is included to define Alternative Low-Carbon Fuels in this Approval.

**6. OPERATION AND MAINTENANCE**

Condition No. 8 is included to require the Company to properly operate and maintain the Processes with Significant Environmental Aspects to minimize the impact to the environment from these processes.

**7. MONITORING AND TESTING**

Condition Nos. 9, 10, 11 and 12 are included to require the Company to gather and retain accurate information so that compliance with the EPA, O. Reg. 419/05, O. Reg. 79/15 and this Approval may be verified.

**8. FUGITIVE EMISSIONS CONTROL AND ODOUR ABATEMENT PLAN**

Condition Nos. 13 and 14 are included to emphasize that the Equipment and Facility must be maintained and operated in accordance with a procedure that will result in compliance with the EPA, Regulation 419/05 and this Approval and to require the Company to keep records and to provide information to staff of the Ministry so that compliance with the EPA, Regulation 419/05 and this Approval may be verified.

**9. COMMUNITY ENGAGEMENT**

Condition No. 15 is included to require the Company to involve and inform the

public on the environmental performance of the Facility.

**10. COMPLAINTS RECORDING AND REPORTING**

Condition No. 16 is included to require the Company to respond to any environmental complaints regarding the operation of the Equipment, according to a procedure that includes methods for preventing recurrence of similar incidents and a requirement to prepare and retain a written report.

**11. RECORD KEEPING REQUIREMENTS**

Condition No. 17 is included to require the Company to retain all documentation related to this Approval and provide access to employees in or agents of the Ministry, upon request, so that the Ministry can determine if a more detailed review of compliance with the Performance Limits as specified in Condition 4 of this Approval is necessary.

**12. COMPLIANCE REPORTING**

Condition No. 18 is included to require the Company to provide an Annual Report to the Ministry and the public, to assist the Ministry with the review of the site's compliance with the EPA, the regulations and this Approval and to ensure that the public has access to information on the environmental impacts of the Facility.

**13. ACOUSTIC AUDIT**

Condition No. 19 is included to require the Company to gather accurate information and submit an Acoustic Audit Report in accordance with procedures set in the Ministry's noise guidelines, so that the environmental impact and subsequent compliance with this Approval can be verified.

**14. REVOCATION OF PREVIOUS APPROVALS**

Condition No. 20 is included to identify that this Approval replaces all Section 9 Certificate(s) of Approval and Part II.1 Approvals in regards to the activities mentioned in subsection 9(1) of the EPA and dated prior to the date of this Approval.

**Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 0706-CLVLC2 issued on August 17, 2023**

In accordance with Section 139 of the *Environmental Protection Act*, you may by written notice served upon me and the Ontario Land Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the *Environmental Protection Act* provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the *Environmental Protection Act*, a hearing may not be available with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

Registrar\*  
Ontario Land Tribunal  
655 Bay Street, Suite 1500  
Toronto, Ontario  
M5G 1E5  
OLT.Registrar@ontario.ca

and

The Director appointed for the purposes of Part II.1 of the *Environmental Protection Act*  
Ministry of the Environment, Conservation and Parks  
135 St. Clair Avenue West, 1st Floor  
Toronto, Ontario  
M4V 1P5

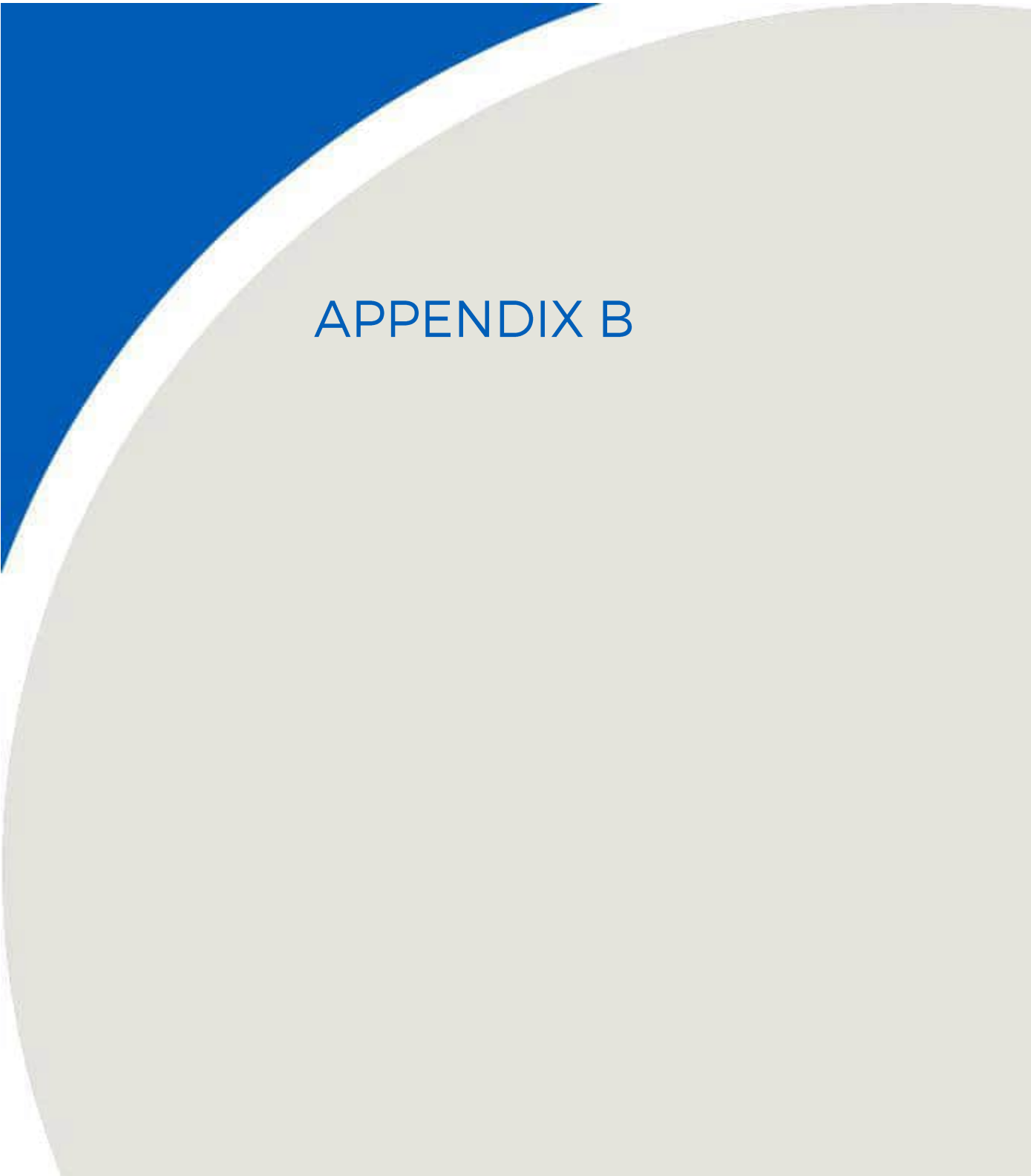
**\* Further information on the Ontario Land Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349 or 1 (866) 448-2248, or [www.olt.gov.on.ca](http://www.olt.gov.on.ca)**

The above noted activity is approved under s.20.3 of Part II.1 of the *Environmental Protection Act*.

DATED AT TORONTO this 11th day of November,  
2024

Nancy E Orpana, P.Eng.  
Director  
appointed for the purposes of Part II.1 of the  
*Environmental Protection Act*

AB/  
c: District Manager, MECP London - District  
Kate Liubansky, WSP Canada Inc.

The background features a large, light gray circular shape on the right side, partially overlapping a solid blue triangular shape on the left. The text 'APPENDIX B' is centered within the gray area.

## APPENDIX B

## Sampling Results - Particulate Matter and Metals Sampling

### SMC St Marys - Kiln Stack

| Test :<br>Sample Volume (Rm <sup>3</sup> ) <sup>[1]</sup> :<br>Stack Flow Rate (Rm <sup>3</sup> /s) <sup>[1]</sup> : | Blank<br>-<br>-  | Test #1<br>3.98<br>81.9 |                                       |                         | Test #2<br>3.83<br>78.8 |                                       |                         | Test #3<br>3.89<br>78.9 |                                       |                         | AVERAGE RESULTS<br>79.8               |                         |
|----------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|---------------------------------------|-------------------------|-------------------------|---------------------------------------|-------------------------|-------------------------|---------------------------------------|-------------------------|---------------------------------------|-------------------------|
|                                                                                                                      | Lab Data<br>(mg) | Lab Data<br>(mg)        | Concentration<br>(mg/m <sup>3</sup> ) | Emission Rate<br>(mg/s) | Lab Data<br>(mg)        | Concentration<br>(mg/m <sup>3</sup> ) | Emission Rate<br>(mg/s) | Lab Data<br>(mg)        | Concentration<br>(mg/m <sup>3</sup> ) | Emission Rate<br>(mg/s) | Concentration<br>(mg/m <sup>3</sup> ) | Emission Rate<br>(mg/s) |
| <b>Filterable Particulate</b>                                                                                        |                  |                         |                                       |                         |                         |                                       |                         |                         |                                       |                         |                                       |                         |
| Particulate in Acetone Rinse                                                                                         | < 0.40           | 83.30                   | -                                     | -                       | 59.10                   | -                                     | -                       | 48.20                   | -                                     | -                       | -                                     | -                       |
| Particulate on Filter                                                                                                | < 0.60           | 25.50                   | -                                     | -                       | 83.50                   | -                                     | -                       | 87.40                   | -                                     | -                       | -                                     | -                       |
| Total Filterable Particulate                                                                                         | < 1.00           | 108.80                  | 27.40                                 | 2240                    | 142.60                  | 37.20                                 | 2930                    | 135.60                  | 34.80                                 | 2750                    | 33.10                                 | 2640                    |
| <b>Metals</b>                                                                                                        |                  |                         |                                       |                         |                         |                                       |                         |                         |                                       |                         |                                       |                         |
| Arsenic (As)                                                                                                         | < 1.10           | 1.80                    | 0.45                                  | 0.0371                  | 1.3                     | 0.34                                  | 0.0267                  | < 1.10                  | < 0.28                                | < 0.0223                | < 0.3580                              | < 0.0287                |
| Barium (Ba)                                                                                                          | < 5.60           | 43.00                   | 10.80                                 | 0.886                   | 34.7                    | 9.06                                  | 0.713                   | 24.8                    | 6.37                                  | 0.502                   | 8.7500                                | 0.7                     |
| Beryllium (Be)                                                                                                       | < 0.22           | < 0.22                  | < 0.06                                | < 0.00453               | < 0.22                  | < 0.06                                | < 0.00452               | < 0.22                  | < 0.06                                | < 0.00446               | < 0.0564                              | < 0.0045                |
| Cadmium (Cd)                                                                                                         | < 0.11           | 1.24                    | 0.31                                  | 0.0255                  | 1.87                    | 0.49                                  | 0.0385                  | 1.64                    | 0.42                                  | 0.0332                  | 0.4070                                | 0.0324                  |
| Chromium (Cr)                                                                                                        | < 1.10           | 660.00                  | 166.00                                | 13.6                    | 314                     | 82.00                                 | 6.46                    | 110                     | 28.20                                 | 2.23                    | 92.1000                               | 7.43                    |
| Cobalt (Co)                                                                                                          | < 0.22           | 2.04                    | 0.51                                  | 0.042                   | 1.55                    | 0.41                                  | 0.0319                  | 1.57                    | 0.40                                  | 0.0318                  | 0.4400                                | 0.0352                  |
| Copper (Cu)                                                                                                          | 2.40             | 30.20                   | 7.60                                  | 0.622                   | 24.9                    | 6.50                                  | 0.512                   | 14.2                    | 3.65                                  | 0.288                   | 5.9100                                | 0.474                   |
| Lead (Pb)                                                                                                            | < 0.56           | 50.10                   | 12.60                                 | 1.03                    | 67.9                    | 17.70                                 | 1.4                     | 70.4                    | 18.10                                 | 1.43                    | 16.1000                               | 1.28                    |
| Manganese (Mn)                                                                                                       | < 0.56           | 152.00                  | 38.20                                 | 3.13                    | 96.9                    | 25.30                                 | 1.99                    | 79.4                    | 20.40                                 | 1.61                    | 28.0000                               | 2.24                    |
| Molybdenum (Mo)                                                                                                      | 10.70            | 38.60                   | 9.71                                  | 0.795                   | 25.8                    | 6.73                                  | 0.53                    | 17.4                    | 4.47                                  | 0.352                   | 6.9700                                | 0.559                   |
| Nickel (Ni)                                                                                                          | 2.60             | 78.30                   | 19.70                                 | 1.61                    | 45.5                    | 11.90                                 | 0.936                   | 40.2                    | 10.30                                 | 0.814                   | 14.0000                               | 1.12                    |
| Selenium (Se)                                                                                                        | < 2.20           | < 2.20                  | < 0.55                                | < 0.0453                | < 2.20                  | < 0.57                                | < 0.0452                | < 2.20                  | < 0.57                                | < 0.0446                | < 0.5640                              | < 0.045                 |
| Silver (Ag)                                                                                                          | < 0.22           | 1.96                    | 0.49                                  | 0.0404                  | 1.63                    | 0.43                                  | 0.0335                  | 0.96                    | 0.25                                  | 0.0194                  | 0.3880                                | 0.0311                  |
| Thallium (Tl)                                                                                                        | < 0.22           | 11.20                   | 2.82                                  | 0.231                   | 9.86                    | 2.57                                  | 0.203                   | 5.91                    | 1.52                                  | 0.12                    | 2.3000                                | 0.184                   |
| Vanadium (V)                                                                                                         | < 1.10           | 42.90                   | 10.80                                 | 0.883                   | 42.2                    | 11.00                                 | 0.868                   | 22.6                    | 5.80                                  | 0.458                   | 9.2000                                | 0.736                   |
| Zinc (Zn)                                                                                                            | < 6.70           | 81.30                   | 20.40                                 | 1.67                    | 110                     | 28.70                                 | 2.26                    | 110                     | 28.20                                 | 2.23                    | 25.8000                               | 2.05                    |
| <b>Mercury</b>                                                                                                       |                  |                         |                                       |                         |                         |                                       |                         |                         |                                       |                         |                                       |                         |
| 1B Mercury (Hg)                                                                                                      | < 0.02           | 0.61                    | 0.15                                  | 0.0125                  | 0.18                    | 0.05                                  | 0.00362                 | 0.05                    | 0.01                                  | 0.000992                | 0.0705                                | 0.00571                 |
| 2B Mercury (Hg)                                                                                                      | < 0.06           | < 0.50                  | < 0.13                                | < 0.0103                | < 0.47                  | < 0.12                                | < 0.00956               | < 0.53                  | < 0.14                                | < 0.0107                | < 0.1280                              | < 0.0102                |
| 3A Mercury (Hg)                                                                                                      | 0.00             | < 0.02                  | < 0.00                                | < 0.000309              | < 0.01                  | < 0.00                                | < 0.000226              | < 0.01                  | < 0.00                                | < 0.000203              | < 0.0031                              | < 0.000246              |
| 3B Mercury (Hg)                                                                                                      | < 0.01           | 4.46                    | 1.12                                  | 0.0918                  | 6.80                    | 1.77                                  | 0.14                    | 4.48                    | 1.15                                  | 0.0907                  | 1.350                                 | 0.107                   |
| 3C Mercury (Hg)                                                                                                      | < 0.08           | 2.10                    | 0.53                                  | 0.0432                  | 1.47                    | 0.38                                  | 0.0302                  | 2.06                    | 0.53                                  | 0.0417                  | 0.480                                 | 0.0384                  |
| Filterable Hg                                                                                                        | < 0.02           | 0.61                    | 0.15                                  | 0.0125                  | 0.18                    | 0.05                                  | 0.00362                 | 0.05                    | 0.01                                  | 0.000992                | 0.07                                  | 0.00571                 |
| Non-Filterable Hg                                                                                                    | < 0.14           | < 7.08                  | < 1.78                                | < 0.146                 | < 8.75                  | < 2.28                                | < 0.18                  | < 7.08                  | < 1.82                                | < 0.143                 | < 1.9600                              | < 0.156                 |
| Total Hg                                                                                                             | < 0.17           | < 7.69                  | < 1.93                                | < 0.158                 | < 8.92                  | < 2.33                                | < 0.183                 | < 7.13                  | < 1.83                                | < 0.144                 | < 2.030                               | < 0.162                 |

#### Notes:

[1] Sample volume and volumetric flow rate based on dry referenced conditions (101.3kPa, and 25°C)

'<' indicates that laboratory results were below the detection limit. The detection limit was used to calculate the concentration and emission rate.

Concentration and Emission Rate has been reported to 3 significant figures.

# Particulate Matter and Metals Sampling

| <b>Facility:</b> SMC St Marys<br><b>City:</b> St Marys<br><b>Source:</b> Kiln Stack<br><b>Reference Method:</b> OSTC Method 5, US EPA Method 29 |                 |                    | <b>Operator:</b> PB<br><b>Entered by:</b> PB<br><b>Checked by:</b> AT |                    |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|-----------------------------------------------------------------------|--------------------|---------------|
| DATA INPUTS                                                                                                                                     | Symbol          | Units              | Test #1<br>PM                                                         | Test #2<br>PM      | Test #3<br>PM |
| Date                                                                                                                                            | -               | -                  | 8-Apr-25                                                              | 8-Apr-25, 9-Apr-25 | 9-Apr-25      |
| Start Time                                                                                                                                      | -               | -                  | 9:37 AM                                                               | 2:28 PM, 8:35 AM   | 11:42 AM      |
| End Time                                                                                                                                        | -               | -                  | 12:53 PM                                                              | 3:30 PM, 10:17 AM  | 2:53 PM       |
| Round Stack, Diameter                                                                                                                           | $d_s$           | in                 | 95                                                                    | 95                 | 95            |
| Standard Temperature                                                                                                                            | $T_s$           | °F                 | 77                                                                    | 77                 | 77            |
| Standard Pressure                                                                                                                               | $P_s$           | in.Hg              | 29.9                                                                  | 29.9               | 29.9          |
| Nozzle Diameter                                                                                                                                 | $D_n$           | in                 | 0.200                                                                 | 0.200              | 0.200         |
| Average Stack Temperature                                                                                                                       | $T_s$           | °F                 | 263                                                                   | 284                | 267           |
| Average Meter Temperature                                                                                                                       | $T_m$           | °F                 | 37                                                                    | 49                 | 69            |
| Barometric Pressure                                                                                                                             | $P_{bar}$       | " Hg               | 28.72                                                                 | 28.72              | 28.72         |
| Stack Static Pressure                                                                                                                           | $P_g$           | " H <sub>2</sub> O | -1.2                                                                  | -1.2               | -1.2          |
| Average Delta H                                                                                                                                 | dH              | " H <sub>2</sub> O | 2.09                                                                  | 2.09               | 2.08          |
| Average Velocity Head (root mean square)                                                                                                        | $dP_{rms}$      | " H <sub>2</sub> O | 1.97                                                                  | 1.90               | 1.96          |
| Pitot Coefficient                                                                                                                               | $C_p$           | -                  | 0.833                                                                 | 0.833              | 0.833         |
|                                                                                                                                                 | Pitot ID :      |                    | 9' #1                                                                 |                    |               |
| Gas Sample Volume                                                                                                                               | $V_m$           | ft <sup>3</sup>    | 133.70                                                                | 132.09             | 139.38        |
| DGM Calibration Factor                                                                                                                          | Y               | -                  | 1.0070                                                                | 1.0070             | 1.0070        |
|                                                                                                                                                 | $\Delta H_{@}$  | -                  | 1.8200                                                                | 1.8200             | 1.8200        |
|                                                                                                                                                 | DGM ID:         |                    | I                                                                     |                    |               |
| Total Sampling Time                                                                                                                             | min             | minutes            | 180                                                                   | 180                | 180           |
| Stack Gas Oxygen Concentration                                                                                                                  | O <sub>2</sub>  | %                  | 13.2                                                                  | 13.2               | 13.2          |
| Stack Gas Carbon Dioxide Concentration                                                                                                          | CO <sub>2</sub> | %                  | 12.5                                                                  | 12.5               | 12.5          |
| Impinger Gain                                                                                                                                   | $W_w$           | g                  | 347.3                                                                 | 330.3              | 413.4         |

## Particulate Matter and Metals Sampling

| <b>Facility:</b> SMC St Marys<br><b>City:</b> St Marys<br><b>Source:</b> Kiln Stack<br><b>Reference Method:</b> OSTC Method 5, 29 |                         |                     | <b>Operator:</b> PB<br><b>Entered by:</b> PB<br><b>Checked by:</b> AT |               |               |               |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------|-----------------------------------------------------------------------|---------------|---------------|---------------|
| Emissions Calculations                                                                                                            | Symbol                  | Units               | Test #1<br>PM                                                         | Test #2<br>PM | Test #3<br>PM | AVERAGE<br>PM |
| Nozzle Area                                                                                                                       | $A_n$                   | ft <sup>2</sup>     | 2.18E-04                                                              | 2.18E-04      | 2.18E-04      | -             |
| Stack Area                                                                                                                        | $A_s$                   | ft <sup>2</sup>     | 48.71                                                                 | 48.71         | 48.71         | -             |
| Average Stack Temperature                                                                                                         | $T_s$                   | °R                  | 723                                                                   | 744           | 727           | 731           |
| Average DGM Temperature                                                                                                           | $T_m$                   | °R                  | 497                                                                   | 509           | 529           | 511           |
| Sample Volume at Reference Conditions                                                                                             | $V_{mStd}$              | ft <sup>3</sup>     | 140.50                                                                | 135.38        | 137.61        | -             |
|                                                                                                                                   | $V_{mmstd}$             | m <sup>3</sup>      | <b>3.98</b>                                                           | <b>3.83</b>   | <b>3.89</b>   | -             |
| Vol. of Water Vapour                                                                                                              | $V_{wStd}$              | ft <sup>3</sup>     | 16.67                                                                 | 15.85         | 19.84         | -             |
| Water Fraction                                                                                                                    | $B_{ws}$                |                     | 10.6%                                                                 | 10.5%         | 12.6%         | 11.2%         |
| Molecular Weight, dry                                                                                                             | $M_d$                   | g/mole              | 30.63                                                                 | 30.63         | 30.63         | 30.63         |
| Molecular Weight, wet                                                                                                             | $M_w$                   | g/mole              | 29.29                                                                 | 29.31         | 29.04         | 29.21         |
| Absolute Stack Pressure                                                                                                           | $P_s$                   | in. Hg              | 28.63                                                                 | 28.63         | 28.63         | 28.63         |
| Stack Gas Velocity                                                                                                                | $U_s$                   | ft/s                | 93.45                                                                 | 92.37         | 92.63         | 92.82         |
|                                                                                                                                   | $U_{sm}$                | m/s                 | <b>28.48</b>                                                          | <b>28.16</b>  | <b>28.23</b>  | 28.29         |
| Actual Gas Flow Rate                                                                                                              | $Q_{act}$               | acf/min             | 273,095                                                               | 269,953       | 270,698       | 271,249       |
| Dry Gas Flow Rate (dry, ref)                                                                                                      | $Q_{ref}$               | dscf/min            | 173,538                                                               | 166,959       | 167,165       | 169,221       |
|                                                                                                                                   | $Q_{mref}$              | m <sup>3</sup> /min | <b>4913</b>                                                           | <b>4727</b>   | <b>4732</b>   | 4,791         |
|                                                                                                                                   | $Q_{mref} (Actual O_2)$ | m <sup>3</sup> /s   | <b>81.88</b>                                                          | <b>78.78</b>  | <b>78.87</b>  | 79.84         |
| Isokinetic Rate                                                                                                                   | $I$                     | %                   | 100                                                                   | 101           | 100           | 100           |

Particulate Matter and Metals Sampling

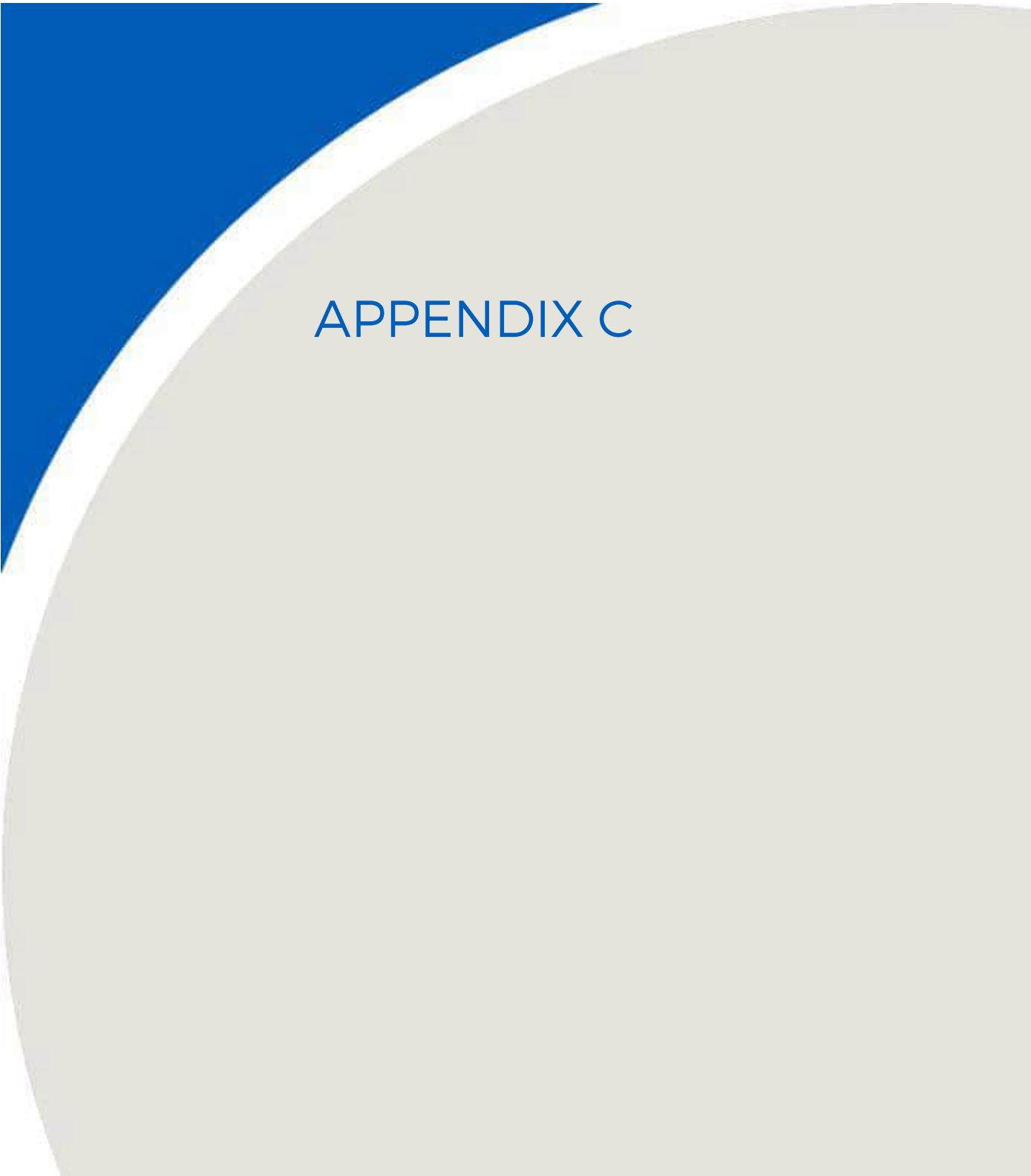
| Facility: SMC St Marys<br>City: St Marys<br>Source: Kiln Stack<br>OSTC Method 5, 29 OSTC Method 5, US EPA Method 29<br>Run: Test #1 |       |                     |                     |                      |               |               |             | Operator: PB<br>Entered by: PB<br>Checked by: AT<br>Test Date: 8-Apr-25 |               |                 |                          |                   |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------|---------------------|----------------------|---------------|---------------|-------------|-------------------------------------------------------------------------|---------------|-----------------|--------------------------|-------------------|
| Pt.                                                                                                                                 | Time  | Velocity<br>Press.  | Orifice<br>Press.   | Actual<br>Meter Vol. | Stack<br>Temp | Probe<br>Temp | Box<br>Temp | Imp<br>Temp                                                             | Meter<br>Temp | Vac<br>Pressure | Percentage<br>Isokinetic | Stack<br>Velocity |
|                                                                                                                                     | (min) | ("H <sub>2</sub> O) | ("H <sub>2</sub> O) | (ft <sup>3</sup> )   | (°F)          | (°F)          | (°F)        | (°F)                                                                    | (°F)          | ("Hg)           | (%)                      | (ft/sec)          |
| Traverse 1                                                                                                                          |       |                     |                     |                      |               |               |             |                                                                         |               |                 |                          |                   |
| Pre-Test Leak Check = < 0.02CFM @ 10"Hg                                                                                             |       |                     |                     |                      |               |               |             |                                                                         |               |                 |                          |                   |
| 1                                                                                                                                   | 0     | 2.30                | 2.20                | 0.00                 | 253           | 249           | 250         | 25                                                                      | 33            | 0               | 94                       | 99.41             |
|                                                                                                                                     | 2.5   | 2.30                | 2.20                | 1.86                 | 252           | 249           | 252         | 29                                                                      | 31            | -3              | 97                       | 99.35             |
|                                                                                                                                     | 5     | 2.30                | 2.20                | 3.78                 | 253           | 248           | 251         | 29                                                                      | 31            | -3              | 97                       | 99.41             |
| 2                                                                                                                                   | 7.5   | 2.30                | 2.20                | 5.69                 | 253           | 251           | 250         | 30                                                                      | 32            | -3              | 97                       | 99.41             |
|                                                                                                                                     | 10    | 2.30                | 2.20                | 7.61                 | 255           | 250           | 248         | 31                                                                      | 31            | -3              | 98                       | 99.55             |
|                                                                                                                                     | 12.5  | 2.30                | 2.20                | 9.53                 | 254           | 250           | 249         | 31                                                                      | 32            | -3              | 97                       | 99.48             |
| 3                                                                                                                                   | 15    | 2.30                | 2.20                | 11.44                | 255           | 247           | 248         | 32                                                                      | 33            | -3              | 99                       | 99.55             |
|                                                                                                                                     | 17.5  | 2.30                | 2.30                | 13.40                | 256           | 243           | 248         | 32                                                                      | 33            | -3              | 99                       | 99.62             |
|                                                                                                                                     | 20    | 2.30                | 2.30                | 15.35                | 256           | 245           | 250         | 32                                                                      | 34            | -3              | 99                       | 99.62             |
| 4                                                                                                                                   | 22.5  | 2.30                | 2.30                | 17.30                | 256           | 250           | 251         | 33                                                                      | 34            | -3              | 99                       | 99.62             |
|                                                                                                                                     | 25    | 2.30                | 2.30                | 19.26                | 255           | 252           | 252         | 33                                                                      | 34            | -3              | 99                       | 99.55             |
|                                                                                                                                     | 27.5  | 2.30                | 2.30                | 21.22                | 256           | 253           | 250         | 33                                                                      | 35            | -3              | 98                       | 99.62             |
| 5                                                                                                                                   | 30    | 2.30                | 2.30                | 23.17                | 255           | 250           | 249         | 33                                                                      | 35            | -3              | 99                       | 99.55             |
|                                                                                                                                     | 32.5  | 2.30                | 2.40                | 25.13                | 253           | 249           | 249         | 33                                                                      | 35            | -3              | 100                      | 99.41             |
|                                                                                                                                     | 35    | 2.30                | 2.40                | 27.12                | 252           | 249           | 250         | 33                                                                      | 35            | -3              | 101                      | 99.35             |
| 6                                                                                                                                   | 37.5  | 2.30                | 2.40                | 29.12                | 253           | 248           | 250         | 33                                                                      | 35            | -3              | 101                      | 99.41             |
|                                                                                                                                     | 40    | 2.30                | 2.40                | 31.12                | 254           | 247           | 250         | 33                                                                      | 35            | -3              | 100                      | 99.48             |
|                                                                                                                                     | 42.5  | 2.30                | 2.40                | 33.11                | 254           | 249           | 248         | 33                                                                      | 36            | -3              | 100                      | 99.48             |
| 7                                                                                                                                   | 45    | 2.30                | 2.40                | 35.10                | 255           | 250           | 248         | 33                                                                      | 35            | -3              | 100                      | 99.55             |
|                                                                                                                                     | 47.5  | 2.30                | 2.40                | 37.09                | 255           | 250           | 247         | 33                                                                      | 35            | -3              | 100                      | 99.55             |
|                                                                                                                                     | 50    | 2.30                | 2.40                | 39.07                | 255           | 250           | 252         | 33                                                                      | 35            | -3              | 99                       | 99.55             |
| 8                                                                                                                                   | 52.5  | 2.30                | 2.40                | 41.04                | 254           | 251           | 251         | 33                                                                      | 35            | -3              | 101                      | 99.48             |
|                                                                                                                                     | 55    | 2.30                | 2.50                | 43.05                | 253           | 249           | 250         | 33                                                                      | 35            | -3              | 102                      | 99.41             |
|                                                                                                                                     | 57.5  | 2.30                | 2.50                | 45.07                | 251           | 250           | 251         | 33                                                                      | 35            | -3              | 103                      | 99.28             |
| 9                                                                                                                                   | 60    | 2.30                | 2.50                | 47.11                | 251           | 250           | 251         | 33                                                                      | 35            | -3              | 101                      | 99.28             |
|                                                                                                                                     | 62.5  | 2.30                | 2.50                | 49.12                | 252           | 251           | 251         | 33                                                                      | 35            | -3              | 101                      | 99.35             |
|                                                                                                                                     | 65    | 2.30                | 2.50                | 51.13                | 252           | 252           | 251         | 33                                                                      | 35            | -3              | 101                      | 99.35             |
| 10                                                                                                                                  | 67.5  | 2.30                | 2.50                | 53.14                | 251           | 250           | 252         | 33                                                                      | 35            | -3              | 102                      | 99.28             |
|                                                                                                                                     | 70    | 2.30                | 2.50                | 55.16                | 252           | 248           | 248         | 33                                                                      | 35            | -3              | 101                      | 99.35             |
|                                                                                                                                     | 72.5  | 2.30                | 2.50                | 57.17                | 251           | 247           | 249         | 33                                                                      | 35            | -3              | 101                      | 99.28             |
| 11                                                                                                                                  | 75    | 2.30                | 2.50                | 59.18                | 252           | 246           | 250         | 33                                                                      | 35            | -3              | 101                      | 99.35             |
|                                                                                                                                     | 77.5  | 2.30                | 2.50                | 61.18                | 251           | 248           | 250         | 33                                                                      | 35            | -3              | 101                      | 99.28             |
|                                                                                                                                     | 80    | 2.30                | 2.50                | 63.18                | 251           | 248           | 247         | 33                                                                      | 36            | -3              | 100                      | 99.28             |
| 12                                                                                                                                  | 82.5  | 2.30                | 2.50                | 65.17                | 250           | 250           | 250         | 33                                                                      | 36            | -3              | 100                      | 99.21             |
|                                                                                                                                     | 85    | 2.20                | 2.50                | 67.17                | 250           | 252           | 250         | 33                                                                      | 36            | -3              | 103                      | 97.02             |
|                                                                                                                                     | 87.5  | 2.20                | 2.50                | 69.17                | 253           | 251           | 250         | 33                                                                      | 36            | -3              | 104                      | 97.23             |
|                                                                                                                                     | 90    | 2.20                | 2.50                | 71.20                | 252           | 250           | 251         | 33                                                                      | 36            | -3              | 102                      | 97.16             |
| Traverse 2                                                                                                                          |       |                     |                     |                      |               |               |             |                                                                         |               |                 |                          |                   |
| 1                                                                                                                                   | 0     | 1.70                | 2.20                | 71.20                | 269           | 251           | 251         | 34                                                                      | 36            | 0               | 112                      | 86.42             |
|                                                                                                                                     | 2.5   | 1.70                | 2.20                | 73.10                | 268           | 253           | 251         | 36                                                                      | 35            | -3              | 103                      | 86.36             |
|                                                                                                                                     | 5     | 1.70                | 1.70                | 74.84                | 270           | 250           | 252         | 38                                                                      | 35            | -2              | 96                       | 86.48             |
| 2                                                                                                                                   | 7.5   | 1.70                | 1.70                | 76.47                | 268           | 255           | 253         | 39                                                                      | 35            | -2              | 96                       | 86.36             |
|                                                                                                                                     | 10    | 1.70                | 1.70                | 78.10                | 268           | 254           | 247         | 41                                                                      | 35            | -2              | 96                       | 86.36             |
|                                                                                                                                     | 12.5  | 1.70                | 1.70                | 79.72                | 267           | 250           | 249         | 42                                                                      | 35            | -2              | 98                       | 86.30             |
| 3                                                                                                                                   | 15    | 1.70                | 1.80                | 81.38                | 270           | 254           | 231         | 44                                                                      | 35            | -2              | 98                       | 86.48             |
|                                                                                                                                     | 17.5  | 1.70                | 1.80                | 83.04                | 268           | 252           | 238         | 45                                                                      | 36            | -2              | 98                       | 86.36             |
|                                                                                                                                     | 20    | 1.70                | 1.80                | 84.70                | 269           | 252           | 225         | 47                                                                      | 36            | -2              | 98                       | 86.42             |
| 4                                                                                                                                   | 22.5  | 1.70                | 1.80                | 86.36                | 268           | 251           | 226         | 48                                                                      | 37            | -2              | 101                      | 86.36             |
|                                                                                                                                     | 25    | 1.70                | 1.90                | 88.08                | 266           | 250           | 228         | 49                                                                      | 37            | -2              | 101                      | 86.25             |
|                                                                                                                                     | 27.5  | 1.70                | 1.90                | 89.80                | 270           | 249           | 228         | 49                                                                      | 37            | -2              | 103                      | 86.48             |
| 5                                                                                                                                   | 30    | 1.70                | 1.90                | 91.54                | 267           | 245           | 232         | 49                                                                      | 37            | -2              | 102                      | 86.30             |
|                                                                                                                                     | 32.5  | 1.70                | 1.90                | 93.27                | 269           | 250           | 232         | 50                                                                      | 38            | -2              | 102                      | 86.42             |
|                                                                                                                                     | 35    | 1.70                | 1.90                | 95.00                | 268           | 252           | 232         | 50                                                                      | 38            | -2              | 102                      | 86.36             |
| 6                                                                                                                                   | 37.5  | 1.70                | 1.90                | 96.74                | 269           | 250           | 228         | 50                                                                      | 38            | -2              | 102                      | 86.42             |
|                                                                                                                                     | 40    | 1.70                | 1.90                | 98.47                | 269           | 248           | 228         | 50                                                                      | 38            | -2              | 102                      | 86.42             |
|                                                                                                                                     | 42.5  | 1.70                | 1.90                | 100.20               | 265           | 253           | 231         | 50                                                                      | 38            | -2              | 101                      | 86.19             |
| 7                                                                                                                                   | 45    | 1.70                | 1.90                | 101.92               | 268           | 247           | 235         | 50                                                                      | 38            | -2              | 101                      | 86.36             |
|                                                                                                                                     | 47.5  | 1.80                | 1.90                | 103.64               | 271           | 253           | 233         | 52                                                                      | 39            | -2              | 98                       | 89.05             |
|                                                                                                                                     | 50    | 1.80                | 1.90                | 105.36               | 271           | 249           | 237         | 54                                                                      | 39            | -2              | 99                       | 89.05             |
| 8                                                                                                                                   | 52.5  | 1.80                | 1.90                | 107.09               | 271           | 254           | 236         | 55                                                                      | 39            | -2              | 98                       | 89.05             |
|                                                                                                                                     | 55    | 1.80                | 1.90                | 108.81               | 270           | 255           | 235         | 58                                                                      | 40            | -2              | 98                       | 88.99             |
|                                                                                                                                     | 57.5  | 1.80                | 1.90                | 110.53               | 271           | 249           | 237         | 58                                                                      | 40            | -2              | 101                      | 89.05             |
| 9                                                                                                                                   | 60    | 1.80                | 2.00                | 112.31               | 268           | 255           | 237         | 60                                                                      | 40            | -2              | 102                      | 88.87             |
|                                                                                                                                     | 62.5  | 1.80                | 2.00                | 114.10               | 269           | 250           | 237         | 62                                                                      | 40            | -2              | 101                      | 88.93             |
|                                                                                                                                     | 65    | 1.80                | 2.00                | 115.88               | 266           | 253           | 237         | 63                                                                      | 41            | -2              | 101                      | 88.75             |
| 10                                                                                                                                  | 67.5  | 1.80                | 2.00                | 117.67               | 270           | 252           | 241         | 65                                                                      | 41            | -2              | 102                      | 88.99             |
|                                                                                                                                     | 70    | 1.80                | 2.00                | 119.46               | 270           | 247           | 242         | 66                                                                      | 41            | -2              | 105                      | 88.99             |
|                                                                                                                                     | 72.5  | 1.80                | 2.00                | 121.30               | 268           | 253           | 237         | 67                                                                      | 41            | -2              | 98                       | 88.87             |
| 11                                                                                                                                  | 75    | 1.80                | 2.00                | 123.02               | 271           | 252           | 238         | 68                                                                      | 41            | -2              | 102                      | 89.05             |
|                                                                                                                                     | 77.5  | 1.80                | 2.00                | 124.81               | 271           | 250           | 239         | 68                                                                      | 41            | -2              | 101                      | 89.05             |
|                                                                                                                                     | 80    | 1.80                | 2.00                | 126.59               | 273           | 256           | 239         | 68                                                                      | 41            | -2              | 101                      | 89.17             |
| 12                                                                                                                                  | 82.5  | 1.80                | 2.00                | 128.37               | 272           | 247           | 244         | 68                                                                      | 41            | -2              | 102                      | 89.11             |
|                                                                                                                                     | 85    | 1.80                | 2.00                | 130.17               | 270           | 251           | 242         | 68                                                                      | 41            | -2              | 100                      | 88.99             |
|                                                                                                                                     | 87.5  | 1.80                | 2.00                | 131.93               | 269           | 252           | 240         | 68                                                                      | 42            | -2              | 100                      | 88.93             |
|                                                                                                                                     | 90    | 1.80                | 2.00                | 133.70               | 270           | 249           | 237         | 68                                                                      | 42            | -2              |                          | 88.99             |
| Post-test Leak Check = < 0.02CFM @ 10"Hg                                                                                            |       |                     |                     |                      |               |               |             |                                                                         |               |                 |                          |                   |
| Average                                                                                                                             |       | 1.97                | 2.09                | 133.70               | 263.0         | 250.4         | 242.4       | 45.1                                                                    | 36.7          | -               | 100                      | 93.45             |

Particulate Matter and Metals Sampling

| Facility: SMC St Marys<br>City: St Marys<br>Source: Kiln Stack<br>OSTC Method 5, 29 OSTC Method 5, US EPA Method 29<br>Run: Test #2 |       |                    |                    |                     | Operator: PB<br>Entered by: PB<br>Checked by: AT<br>Test Date: 8-Apr-25, 9-AM |              |              |              |              |                               |                   |                      |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|--------------------|---------------------|-------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|-------------------------------|-------------------|----------------------|
| Pt.                                                                                                                                 | Time  | Velocity           | Orifice            | Actual              | Stack                                                                         | Probe        | Box          | Imp          | Meter        | Vac                           | Percentage        | Stack                |
|                                                                                                                                     | (min) | (H <sub>2</sub> O) | (H <sub>2</sub> O) | Meter Vol.<br>(ft³) | Temp<br>(°F)                                                                  | Temp<br>(°F) | Temp<br>(°F) | Temp<br>(°F) | Temp<br>(°F) | Pressure<br>(H <sub>g</sub> ) | Isokinetic<br>(%) | Velocity<br>(ft/sec) |
| Traverse 1                                                                                                                          |       |                    |                    |                     |                                                                               |              |              |              |              |                               |                   |                      |
| Pre-Test Leak Check = < 0.02CFM @ 10"Hg                                                                                             |       |                    |                    |                     |                                                                               |              |              |              |              |                               |                   |                      |
| 1                                                                                                                                   | 0     | 2.00               | 1.80               | 0.00                | 315                                                                           | 250          | 242          | 46           | 41           | -3                            | 94                | 96.65                |
|                                                                                                                                     | 2.5   | 2.00               | 1.80               | 1.69                | 316                                                                           | 252          | 239          | 47           | 40           | -3                            | 100               | 96.71                |
|                                                                                                                                     | 5     | 2.00               | 2.00               | 3.49                | 318                                                                           | 253          | 238          | 48           | 40           | -3                            | 103               | 96.84                |
| 2                                                                                                                                   | 7.5   | 1.90               | 2.10               | 5.33                | 318                                                                           | 252          | 239          | 49           | 41           | -3                            | 105               | 94.39                |
|                                                                                                                                     | 10    | 1.90               | 2.10               | 7.17                | 319                                                                           | 252          | 239          | 52           | 40           | -3                            | 108               | 94.45                |
|                                                                                                                                     | 12.5  | 1.90               | 2.10               | 9.05                | 319                                                                           | 250          | 238          | 55           | 41           | -3                            | 102               | 94.45                |
| 3                                                                                                                                   | 15    | 1.90               | 2.10               | 10.83               | 320                                                                           | 250          | 238          | 58           | 41           | -3                            | 104               | 94.51                |
|                                                                                                                                     | 17.5  | 1.90               | 2.10               | 12.64               | 321                                                                           | 254          | 240          | 61           | 41           | -3                            | 104               | 94.57                |
|                                                                                                                                     | 20    | 1.90               | 2.10               | 14.45               | 322                                                                           | 250          | 240          | 64           | 42           | -3                            | 103               | 94.63                |
| 4                                                                                                                                   | 22.5  | 1.90               | 2.10               | 16.26               | 323                                                                           | 254          | 241          | 66           | 42           | -3                            | 102               | 94.69                |
|                                                                                                                                     | 25    | 1.90               | 2.10               | 18.05               | 323                                                                           | 249          | 246          | 70           | 42           | -3                            | 103               | 94.69                |
|                                                                                                                                     | 27.5  | 1.90               | 2.10               | 19.85               | 325                                                                           | 256          | 247          | 74           | 43           | -3                            | 103               | 94.81                |
| 5                                                                                                                                   | 30    | 1.90               | 2.10               | 21.65               | 325                                                                           | 250          | 249          | 79           | 44           | -3                            | 103               | 94.81                |
|                                                                                                                                     | 32.5  | 1.90               | 2.10               | 23.45               | 326                                                                           | 256          | 249          | 81           | 44           | -3                            | 103               | 94.87                |
|                                                                                                                                     | 35    | 1.90               | 2.10               | 25.25               | 327                                                                           | 246          | 251          | 78           | 45           | -3                            | 107               | 94.93                |
| 6                                                                                                                                   | 37.5  | 1.90               | 2.10               | 27.12               | 327                                                                           | 252          | 248          | 79           | 45           | -3                            | 105               | 94.93                |
|                                                                                                                                     | 40    | 1.90               | 2.10               | 28.97               | 328                                                                           | 254          | 251          | 80           | 45           | -3                            | 104               | 94.99                |
|                                                                                                                                     | 42.5  | 1.90               | 2.10               | 30.80               | 328                                                                           | 246          | 248          | 78           | 46           | -3                            | 106               | 94.99                |
| 7                                                                                                                                   | 45    | 1.90               | 2.10               | 32.66               | 328                                                                           | 246          | 244          | 73           | 47           | -3                            | 105               | 94.99                |
|                                                                                                                                     | 47.5  | 1.90               | 2.10               | 34.51               | 329                                                                           | 244          | 240          | 68           | 47           | -3                            | 105               | 95.05                |
|                                                                                                                                     | 50    | 1.90               | 2.10               | 36.36               | 329                                                                           | 247          | 239          | 65           | 47           | -3                            | 105               | 95.05                |
| 8                                                                                                                                   | 52.5  | 1.90               | 2.10               | 38.21               | 330                                                                           | 254          | 239          | 62           | 46           | -3                            | 105               | 95.11                |
|                                                                                                                                     | 55    | 1.90               | 2.10               | 40.05               | 330                                                                           | 254          | 238          | 57           | 46           | -3                            | 105               | 95.11                |
|                                                                                                                                     | 57.5  | 1.90               | 2.10               | 41.90               | 330                                                                           | 250          | 241          | 54           | 46           | -3                            | 104               | 95.11                |
| 9                                                                                                                                   | 60    | 1.90               | 2.10               | 43.73               | 330                                                                           | 251          | 239          | 53           | 46           | -3                            | 101               | 95.11                |
|                                                                                                                                     | 62.5  | 1.90               | 2.10               | 45.50               | 260                                                                           | 249          | 248          | 35           | 48           | -3                            | 103               | 90.80                |
|                                                                                                                                     | 65    | 1.90               | 2.10               | 47.40               | 260                                                                           | 250          | 250          | 35           | 47           | -3                            | 101               | 90.80                |
| 10                                                                                                                                  | 67.5  | 1.90               | 2.10               | 49.26               | 260                                                                           | 254          | 251          | 35           | 47           | -3                            | 100               | 90.80                |
|                                                                                                                                     | 70    | 1.90               | 2.10               | 51.11               | 262                                                                           | 246          | 251          | 36           | 46           | -3                            | 101               | 90.93                |
|                                                                                                                                     | 72.5  | 1.90               | 2.10               | 52.96               | 262                                                                           | 252          | 251          | 37           | 46           | -3                            | 101               | 90.93                |
| 11                                                                                                                                  | 75    | 1.90               | 2.10               | 54.81               | 261                                                                           | 250          | 251          | 39           | 46           | -3                            | 97                | 90.86                |
|                                                                                                                                     | 77.5  | 1.90               | 2.10               | 56.60               | 261                                                                           | 253          | 252          | 41           | 46           | -4                            | 101               | 90.86                |
|                                                                                                                                     | 80    | 1.90               | 2.10               | 58.46               | 262                                                                           | 250          | 251`         | 43           | 46           | -4                            | 102               | 90.93                |
| 12                                                                                                                                  | 82.5  | 1.90               | 2.10               | 60.33               | 262                                                                           | 253          | 251          | 44           | 47           | -4                            | 102               | 90.93                |
|                                                                                                                                     | 85    | 1.90               | 2.10               | 62.21               | 262                                                                           | 248          | 252          | 45           | 47           | -4                            | 102               | 90.93                |
|                                                                                                                                     | 87.5  | 1.90               | 2.10               | 64.09               | 260                                                                           | 252          | 251          | 46           | 47           | -4                            | 102               | 90.80                |
|                                                                                                                                     | 90    | 1.90               | 2.10               | 65.96               | 261                                                                           | 250          | 252          | 46           | 48           | -4                            | 99                | 90.86                |
| Traverse 2                                                                                                                          |       |                    |                    |                     |                                                                               |              |              |              |              |                               |                   |                      |
| 1                                                                                                                                   | 0     | 1.90               | 2.10               | 65.96               | 260                                                                           | 250          | 251          | 41           | 49           | -4                            | 99                | 90.80                |
|                                                                                                                                     | 2.5   | 1.90               | 2.10               | 67.79               | 263                                                                           | 253          | 252          | 44           | 48           | -4                            | 99                | 90.99                |
|                                                                                                                                     | 5     | 1.90               | 2.10               | 69.62               | 261                                                                           | 248          | 252          | 45           | 48           | -4                            | 99                | 90.86                |
| 2                                                                                                                                   | 7.5   | 1.90               | 2.10               | 71.44               | 261                                                                           | 257          | 252          | 47           | 49           | -4                            | 99                | 90.86                |
|                                                                                                                                     | 10    | 1.90               | 2.10               | 73.27               | 262                                                                           | 241          | 250          | 49           | 49           | -4                            | 99                | 90.93                |
|                                                                                                                                     | 12.5  | 1.90               | 2.10               | 75.10               | 262                                                                           | 255          | 252          | 50           | 49           | -4                            | 99                | 90.93                |
| 3                                                                                                                                   | 15    | 1.90               | 2.10               | 76.93               | 261                                                                           | 246          | 252          | 51           | 50           | -4                            | 98                | 90.86                |
|                                                                                                                                     | 17.5  | 1.90               | 2.10               | 78.74               | 262                                                                           | 255          | 251          | 51           | 50           | -4                            | 98                | 90.93                |
|                                                                                                                                     | 20    | 1.90               | 2.10               | 80.56               | 261                                                                           | 246          | 252          | 52           | 50           | -4                            | 99                | 90.86                |
| 4                                                                                                                                   | 22.5  | 1.90               | 2.10               | 82.39               | 260                                                                           | 254          | 251          | 52           | 51           | -4                            | 100               | 90.80                |
|                                                                                                                                     | 25    | 1.90               | 2.10               | 84.24               | 261                                                                           | 247          | 250          | 51           | 52           | -4                            | 101               | 90.86                |
|                                                                                                                                     | 27.5  | 1.90               | 2.10               | 86.11               | 263                                                                           | 254          | 251          | 51           | 52           | -4                            | 99                | 90.99                |
| 5                                                                                                                                   | 30    | 1.90               | 2.10               | 87.95               | 262                                                                           | 251          | 252          | 50           | 52           | -4                            | 100               | 90.93                |
|                                                                                                                                     | 32.5  | 1.90               | 2.10               | 89.80               | 263                                                                           | 253          | 251          | 50           | 53           | -4                            | 99                | 90.99                |
|                                                                                                                                     | 35    | 1.90               | 2.10               | 91.65               | 265                                                                           | 249          | 253          | 50           | 53           | -4                            | 100               | 91.11                |
| 6                                                                                                                                   | 37.5  | 1.90               | 2.10               | 93.50               | 265                                                                           | 250          | 252          | 50           | 53           | -4                            | 99                | 91.11                |
|                                                                                                                                     | 40    | 1.90               | 2.10               | 95.34               | 265                                                                           | 254          | 253          | 50           | 53           | -4                            | 100               | 91.11                |
|                                                                                                                                     | 42.5  | 1.90               | 2.10               | 97.19               | 266                                                                           | 247          | 251          | 50           | 54           | -4                            | 99                | 91.18                |
| 7                                                                                                                                   | 45    | 1.90               | 2.10               | 99.03               | 265                                                                           | 254          | 252          | 50           | 54           | -4                            | 99                | 91.11                |
|                                                                                                                                     | 47.5  | 1.90               | 2.10               | 100.87              | 265                                                                           | 246          | 252          | 51           | 54           | -4                            | 98                | 91.11                |
|                                                                                                                                     | 50    | 1.90               | 2.10               | 102.70              | 263                                                                           | 254          | 251          | 51           | 55           | -4                            | 97                | 90.99                |
| 8                                                                                                                                   | 52.5  | 1.90               | 2.10               | 104.52              | 263                                                                           | 249          | 251          | 51           | 55           | -4                            | 99                | 90.99                |
|                                                                                                                                     | 55    | 1.90               | 2.10               | 106.36              | 263                                                                           | 257          | 252          | 51           | 56           | -4                            | 98                | 90.99                |
|                                                                                                                                     | 57.5  | 1.90               | 2.10               | 108.19              | 265                                                                           | 244          | 253          | 52           | 56           | -4                            | 98                | 91.11                |
| 9                                                                                                                                   | 60    | 1.90               | 2.10               | 110.02              | 263                                                                           | 253          | 251          | 52           | 56           | -4                            | 98                | 90.99                |
|                                                                                                                                     | 62.5  | 1.90               | 2.10               | 111.85              | 264                                                                           | 248          | 252          | 53           | 56           | -4                            | 98                | 91.05                |
|                                                                                                                                     | 65    | 1.90               | 2.10               | 113.68              | 265                                                                           | 253          | 251          | 54           | 57           | -4                            | 98                | 91.11                |
| 10                                                                                                                                  | 67.5  | 1.90               | 2.10               | 115.52              | 263                                                                           | 246          | 249          | 54           | 57           | -4                            | 97                | 90.99                |
|                                                                                                                                     | 70    | 1.90               | 2.10               | 117.34              | 265                                                                           | 253          | 250          | 53           | 58           | -4                            | 99                | 91.11                |
|                                                                                                                                     | 72.5  | 1.90               | 2.10               | 119.19              | 266                                                                           | 246          | 251          | 53           | 58           | -4                            | 98                | 91.18                |
| 11                                                                                                                                  | 75    | 1.90               | 2.10               | 121.03              | 268                                                                           | 250          | 250          | 53           | 58           | -4                            | 98                | 91.30                |
|                                                                                                                                     | 77.5  | 1.90               | 2.10               | 122.87              | 267                                                                           | 252          | 252          | 53           | 58           | -4                            | 99                | 91.24                |
|                                                                                                                                     | 80    | 1.90               | 2.10               | 124.72              | 268                                                                           | 251          | 252          | 54           | 58           | -4                            | 98                | 91.30                |
| 12                                                                                                                                  | 82.5  | 1.90               | 2.10               | 126.56              | 269                                                                           | 253          | 252          | 55           | 58           | -4                            | 98                | 91.34                |
|                                                                                                                                     | 85    | 1.90               | 2.10               | 128.40              | 269                                                                           | 250          | 252          | 56           | 58           | -4                            | 98                | 91.34                |
|                                                                                                                                     | 87.5  | 1.90               | 2.10               | 130.23              | 267                                                                           | 252          | 252          | 57           | 58           | -4                            | 99                | 91.22                |
|                                                                                                                                     | 90    | 1.90               | 2.10               | 132.09              | 266                                                                           | 248          | 252          | 58           | 59           | -4                            |                   | 91.15                |
| Post-test Leak Check = < 0.02CFM @ 10"Hg                                                                                            |       |                    |                    |                     |                                                                               |              |              |              |              |                               |                   |                      |
| Average                                                                                                                             |       | 1.90               | 2.09               | 132.09              | 283.9                                                                         | 250.6        | 248.3        | 53.7         | 49.2         | -                             | 101               | 92.37                |

Particulate Matter and Metals Sampling

| Facility: SMC St Marys<br>City: St Marys<br>Source: Kiln Stack<br>OSTC Method 5, 29 OSTC Method 5, US EPA Method 29<br>Run: Test #3 |       |                               |                               |                                  | Operator: PB<br>Entered by: PB<br>Checked by: AT<br>Test Date: 9-Apr-25 |              |              |              |              |                   |                   |                      |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------|-------------------------------|----------------------------------|-------------------------------------------------------------------------|--------------|--------------|--------------|--------------|-------------------|-------------------|----------------------|
| Pt.                                                                                                                                 | Time  | Velocity                      | Orifice                       | Actual                           | Stack                                                                   | Probe        | Box          | Imp          | Meter        | Vac               | Percentage        | Stack                |
|                                                                                                                                     | (min) | Press.<br>("H <sub>2</sub> O) | Press.<br>("H <sub>2</sub> O) | Meter Vol.<br>(ft <sup>3</sup> ) | Temp<br>(°F)                                                            | Temp<br>(°F) | Temp<br>(°F) | Temp<br>(°F) | Temp<br>(°F) | Pressure<br>("Hg) | Isokinetic<br>(%) | Velocity<br>(ft/sec) |
| Traverse 1                                                                                                                          |       |                               |                               |                                  |                                                                         |              |              |              |              |                   |                   |                      |
| Pre-Test Leak Check = < 0.02CFM @ 10"Hg                                                                                             |       |                               |                               |                                  |                                                                         |              |              |              |              |                   |                   |                      |
| 1                                                                                                                                   | 0     | 2.00                          | 2.10                          | 0.00                             | 268                                                                     | 249          | 253          | 44           | 62           | -3                | 97                | 93.68                |
|                                                                                                                                     | 2.5   | 2.00                          | 2.10                          | 1.87                             | 266                                                                     | 251          | 252          | 43           | 60           | -3                | 100               | 93.55                |
|                                                                                                                                     | 5     | 2.00                          | 2.10                          | 3.80                             | 266                                                                     | 248          | 252          | 43           | 60           | -3                | 101               | 93.55                |
| 2                                                                                                                                   | 7.5   | 2.00                          | 2.10                          | 5.75                             | 265                                                                     | 253          | 252          | 43           | 60           | -3                | 102               | 93.48                |
|                                                                                                                                     | 10    | 2.00                          | 2.10                          | 7.72                             | 265                                                                     | 253          | 250          | 45           | 61           | -3                | 97                | 93.48                |
|                                                                                                                                     | 12.5  | 2.00                          | 2.10                          | 9.60                             | 264                                                                     | 254          | 252          | 45           | 61           | -3                | 101               | 93.42                |
| 3                                                                                                                                   | 15    | 2.00                          | 2.10                          | 11.55                            | 265                                                                     | 255          | 252          | 45           | 61           | -3                | 99                | 93.48                |
|                                                                                                                                     | 17.5  | 2.00                          | 2.10                          | 13.46                            | 264                                                                     | 259          | 252          | 46           | 62           | -3                | 102               | 93.42                |
|                                                                                                                                     | 20    | 2.00                          | 2.10                          | 15.44                            | 264                                                                     | 236          | 250          | 46           | 62           | -3                | 102               | 93.42                |
| 4                                                                                                                                   | 22.5  | 2.00                          | 2.10                          | 17.41                            | 264                                                                     | 250          | 251          | 47           | 63           | -3                | 101               | 93.42                |
|                                                                                                                                     | 25    | 2.00                          | 2.10                          | 19.38                            | 266                                                                     | 249          | 250          | 45           | 64           | -3                | 101               | 93.55                |
|                                                                                                                                     | 27.5  | 2.00                          | 2.10                          | 21.34                            | 266                                                                     | 252          | 250          | 46           | 64           | -3                | 101               | 93.55                |
| 5                                                                                                                                   | 30    | 2.00                          | 2.10                          | 23.30                            | 266                                                                     | 249          | 251          | 46           | 64           | -3                | 101               | 93.55                |
|                                                                                                                                     | 32.5  | 2.00                          | 2.10                          | 25.26                            | 267                                                                     | 257          | 252          | 46           | 65           | -3                | 101               | 93.61                |
|                                                                                                                                     | 35    | 2.00                          | 2.10                          | 27.22                            | 267                                                                     | 242          | 251          | 47           | 65           | -3                | 100               | 93.61                |
| 6                                                                                                                                   | 37.5  | 2.00                          | 2.10                          | 29.16                            | 266                                                                     | 257          | 251          | 47           | 65           | -3                | 100               | 93.55                |
|                                                                                                                                     | 40    | 2.00                          | 2.10                          | 31.11                            | 268                                                                     | 242          | 251          | 48           | 66           | -3                | 99                | 93.68                |
|                                                                                                                                     | 42.5  | 2.00                          | 2.10                          | 33.04                            | 267                                                                     | 259          | 252          | 48           | 66           | -3                | 99                | 93.61                |
| 7                                                                                                                                   | 45    | 2.00                          | 2.10                          | 34.97                            | 268                                                                     | 242          | 251          | 48           | 67           | -3                | 99                | 93.68                |
|                                                                                                                                     | 47.5  | 2.00                          | 2.10                          | 36.90                            | 268                                                                     | 256          | 251          | 49           | 68           | -3                | 99                | 93.68                |
|                                                                                                                                     | 50    | 2.00                          | 2.10                          | 38.83                            | 268                                                                     | 244          | 251          | 50           | 68           | -3                | 99                | 93.68                |
| 8                                                                                                                                   | 52.5  | 2.00                          | 2.10                          | 40.76                            | 268                                                                     | 258          | 250          | 50           | 69           | -3                | 98                | 93.68                |
|                                                                                                                                     | 55    | 2.00                          | 2.10                          | 42.69                            | 268                                                                     | 240          | 252          | 50           | 70           | -3                | 98                | 93.68                |
|                                                                                                                                     | 57.5  | 2.00                          | 2.10                          | 44.61                            | 267                                                                     | 258          | 250          | 51           | 70           | -3                | 99                | 93.61                |
| 9                                                                                                                                   | 60    | 2.00                          | 2.10                          | 46.56                            | 267                                                                     | 239          | 249          | 50           | 71           | -3                | 99                | 93.61                |
|                                                                                                                                     | 62.5  | 2.00                          | 2.10                          | 48.50                            | 265                                                                     | 250          | 250          | 50           | 71           | -3                | 98                | 93.48                |
|                                                                                                                                     | 65    | 2.00                          | 2.10                          | 50.44                            | 266                                                                     | 251          | 250          | 50           | 72           | -3                | 98                | 93.55                |
| 10                                                                                                                                  | 67.5  | 2.00                          | 2.10                          | 52.38                            | 266                                                                     | 253          | 253          | 51           | 72           | -3                | 99                | 93.55                |
|                                                                                                                                     | 70    | 2.00                          | 2.10                          | 54.34                            | 267                                                                     | 247          | 252          | 52           | 71           | -3                | 99                | 93.61                |
|                                                                                                                                     | 72.5  | 2.00                          | 2.10                          | 56.29                            | 267                                                                     | 258          | 252          | 53           | 72           | -3                | 99                | 93.61                |
| 11                                                                                                                                  | 75    | 2.00                          | 2.10                          | 58.25                            | 268                                                                     | 241          | 251          | 54           | 72           | -3                | 99                | 93.68                |
|                                                                                                                                     | 77.5  | 2.00                          | 2.10                          | 60.20                            | 267                                                                     | 256          | 250          | 55           | 72           | -3                | 98                | 93.61                |
|                                                                                                                                     | 80    | 2.00                          | 2.10                          | 62.14                            | 267                                                                     | 242          | 251          | 56           | 72           | -3                | 99                | 93.61                |
| 12                                                                                                                                  | 82.5  | 2.00                          | 2.10                          | 64.09                            | 267                                                                     | 256          | 250          | 57           | 73           | -3                | 98                | 93.61                |
|                                                                                                                                     | 85    | 2.00                          | 2.10                          | 66.03                            | 268                                                                     | 246          | 251          | 58           | 73           | -3                | 98                | 93.68                |
|                                                                                                                                     | 87.5  | 2.00                          | 2.10                          | 67.97                            | 268                                                                     | 255          | 250          | 60           | 73           | -3                | 100               | 93.68                |
|                                                                                                                                     | 90    | 2.00                          | 2.10                          | 69.95                            | 267                                                                     | 244          | 254          | 59           | 74           | -3                | 98                | 93.61                |
| Traverse 2                                                                                                                          |       |                               |                               |                                  |                                                                         |              |              |              |              |                   |                   |                      |
| 1                                                                                                                                   | 0     | 1.90                          | 2.10                          | 69.95                            | 269                                                                     | 248          | 251          | 51           | 75           | -4                | 103               | 91.37                |
|                                                                                                                                     | 2.5   | 1.90                          | 2.10                          | 71.94                            | 270                                                                     | 251          | 251          | 53           | 73           | -4                | 103               | 91.43                |
|                                                                                                                                     | 5     | 1.90                          | 2.10                          | 73.92                            | 270                                                                     | 250          | 250          | 54           | 72           | -4                | 103               | 91.43                |
| 2                                                                                                                                   | 7.5   | 1.90                          | 2.10                          | 75.90                            | 271                                                                     | 252          | 251          | 57           | 72           | -4                | 103               | 91.49                |
|                                                                                                                                     | 10    | 1.90                          | 2.10                          | 77.88                            | 272                                                                     | 243          | 251          | 59           | 71           | -4                | 104               | 91.55                |
|                                                                                                                                     | 12.5  | 1.90                          | 2.10                          | 79.86                            | 271                                                                     | 256          | 251          | 60           | 70           | -4                | 102               | 91.49                |
| 3                                                                                                                                   | 15    | 1.90                          | 2.10                          | 81.80                            | 271                                                                     | 245          | 252          | 62           | 70           | -4                | 101               | 91.49                |
|                                                                                                                                     | 17.5  | 1.90                          | 2.10                          | 83.73                            | 272                                                                     | 254          | 251          | 63           | 70           | -4                | 103               | 91.55                |
|                                                                                                                                     | 20    | 1.90                          | 2.10                          | 85.69                            | 271                                                                     | 246          | 250          | 64           | 70           | -4                | 103               | 91.49                |
| 4                                                                                                                                   | 22.5  | 2.00                          | 2.10                          | 87.65                            | 269                                                                     | 247          | 250          | 63           | 71           | -4                | 100               | 93.74                |
|                                                                                                                                     | 25    | 2.00                          | 2.10                          | 89.61                            | 271                                                                     | 249          | 250          | 63           | 71           | -4                | 100               | 93.87                |
|                                                                                                                                     | 27.5  | 2.00                          | 2.10                          | 91.58                            | 273                                                                     | 253          | 249          | 61           | 71           | -4                | 99                | 94.00                |
| 5                                                                                                                                   | 30    | 2.00                          | 2.10                          | 93.53                            | 274                                                                     | 250          | 252          | 62           | 71           | -3                | 99                | 94.06                |
|                                                                                                                                     | 32.5  | 2.00                          | 2.10                          | 95.48                            | 275                                                                     | 247          | 249          | 61           | 70           | -3                | 100               | 94.12                |
|                                                                                                                                     | 35    | 2.00                          | 2.10                          | 97.44                            | 255                                                                     | 253          | 251          | 61           | 70           | -3                | 98                | 92.83                |
| 6                                                                                                                                   | 37.5  | 1.70                          | 2.10                          | 99.38                            | 250                                                                     | 247          | 251          | 62           | 70           | -3                | 103               | 85.29                |
|                                                                                                                                     | 40    | 1.70                          | 1.90                          | 101.27                           | 251                                                                     | 251          | 250          | 61           | 70           | -3                | 99                | 85.35                |
|                                                                                                                                     | 42.5  | 1.70                          | 1.90                          | 103.09                           | 250                                                                     | 250          | 251          | 62           | 69           | -3                | 100               | 85.29                |
| 7                                                                                                                                   | 45    | 1.70                          | 2.00                          | 104.93                           | 257                                                                     | 251          | 250          | 62           | 69           | -3                | 102               | 85.71                |
|                                                                                                                                     | 47.5  | 1.80                          | 2.00                          | 106.79                           | 262                                                                     | 251          | 251          | 62           | 69           | -3                | 100               | 88.50                |
|                                                                                                                                     | 50    | 1.80                          | 2.00                          | 108.65                           | 264                                                                     | 250          | 251          | 62           | 69           | -3                | 99                | 88.62                |
| 8                                                                                                                                   | 52.5  | 1.80                          | 2.00                          | 110.50                           | 264                                                                     | 253          | 251          | 63           | 69           | -4                | 101               | 88.62                |
|                                                                                                                                     | 55    | 1.80                          | 2.00                          | 112.38                           | 266                                                                     | 248          | 252          | 65           | 68           | -4                | 101               | 88.75                |
|                                                                                                                                     | 57.5  | 1.80                          | 2.00                          | 114.26                           | 271                                                                     | 252          | 250          | 65           | 68           | -4                | 101               | 89.05                |
| 9                                                                                                                                   | 60    | 2.00                          | 2.00                          | 116.14                           | 273                                                                     | 251          | 253          | 67           | 68           | -4                | 98                | 94.00                |
|                                                                                                                                     | 62.5  | 2.00                          | 2.00                          | 118.05                           | 273                                                                     | 245          | 250          | 67           | 68           | -4                | 96                | 94.00                |
|                                                                                                                                     | 65    | 2.00                          | 2.00                          | 119.92                           | 274                                                                     | 255          | 251          | 67           | 68           | -4                | 100               | 94.06                |
| 10                                                                                                                                  | 67.5  | 2.00                          | 2.10                          | 121.86                           | 272                                                                     | 239          | 252          | 68           | 69           | -4                | 100               | 93.93                |
|                                                                                                                                     | 70    | 2.00                          | 2.10                          | 123.81                           | 273                                                                     | 250          | 250          | 68           | 69           | -4                | 101               | 94.00                |
|                                                                                                                                     | 72.5  | 2.00                          | 2.10                          | 125.78                           | 271                                                                     | 241          | 252          | 68           | 69           | -4                | 98                | 93.87                |
| 11                                                                                                                                  | 75    | 2.00                          | 2.10                          | 127.70                           | 272                                                                     | 246          | 249          | 68           | 70           | -4                | 99                | 93.93                |
|                                                                                                                                     | 77.5  | 2.00                          | 2.10                          | 129.63                           | 273                                                                     | 252          | 251          | 68           | 70           | -4                | 99                | 94.00                |
|                                                                                                                                     | 80    | 2.00                          | 2.10                          | 131.57                           | 271                                                                     | 247          | 252          | 68           | 70           | -4                | 99                | 93.87                |
| 12                                                                                                                                  | 82.5  | 2.00                          | 2.10                          | 133.52                           | 270                                                                     | 252          | 250          | 68           | 71           | -4                | 98                | 93.78                |
|                                                                                                                                     | 85    | 2.00                          | 2.10                          | 135.45                           | 271                                                                     | 246          | 251          | 68           | 71           | -4                | 99                | 93.84                |
|                                                                                                                                     | 87.5  | 2.00                          | 2.10                          | 137.39                           | 271                                                                     | 249          | 249          | 68           | 72           | -4                | 101               | 93.84                |
|                                                                                                                                     | 90    | 2.00                          | 2.10                          | 139.38                           | 271                                                                     | 251          | 250          | 65           | 72           | -4                |                   | 93.84                |
| Post-test Leak Check = < 0.02CFM @ 10"Hg                                                                                            |       |                               |                               |                                  |                                                                         |              |              |              |              |                   |                   |                      |
| Average                                                                                                                             |       | 1.96                          | 2.08                          | 139.38                           | 267.4                                                                   | 249.6        | 250.9        | 56.2         | 68.6         | -                 | 100               | 92.63                |

The background features a large, light gray circular shape on the right side, partially overlapping a solid blue triangular shape on the left. The text 'APPENDIX C' is centered within the gray circle.

## APPENDIX C

## Sampling Results - Benzene-Phenolics

### Kiln Stack

| Test :<br>Sample Volume (m <sup>3</sup> ) [1] :<br>Stack Flow Rate (m <sup>3</sup> /s) [1] : | Blank<br>-<br>- | Test #1<br>3.49<br>71.9 |                      |               | Test #2<br>3.31<br>66.7 |                      |               | Test #3<br>3.45<br>69.8 |                      |               | AVERAGE RESULTS<br>3.42<br>69.50 |                                    |               |
|----------------------------------------------------------------------------------------------|-----------------|-------------------------|----------------------|---------------|-------------------------|----------------------|---------------|-------------------------|----------------------|---------------|----------------------------------|------------------------------------|---------------|
|                                                                                              |                 | Lab Data                | Concentration        | Emission Rate | Lab Data                | Concentration        | Emission Rate | Lab Data                | Concentration        | Emission Rate | Concentration                    | Concentration @ 11% O <sub>2</sub> | Emission Rate |
| Chlorobenzenes                                                                               | (ng)            | (ng)                    | (µg/m <sup>3</sup> ) | (µg/s)        | (ng)                    | (µg/m <sup>3</sup> ) | (µg/s)        | (ng)                    | (µg/m <sup>3</sup> ) | (µg/s)        | (µg/m <sup>3</sup> )             | (µg/m <sup>3</sup> )               | (µg/s)        |
| Acenaphthene                                                                                 | 18.1            | 33400                   | 9.58                 | 689           | 42600                   | 12.9                 | 859           | 33900                   | 9.83                 | 686           | 10.8                             | 13.83099                           | 745           |
| Acenaphthylene                                                                               | 32.7            | 50900                   | 14.6                 | 1050          | 73800                   | 22.3                 | 1490          | 48400                   | 14                   | 979           | 17                               | 21.82239                           | 1170          |
| Anthracene                                                                                   | 164             | 12300                   | 3.53                 | 254           | 46600                   | 14.1                 | 940           | 15700                   | 4.55                 | 318           | 7.39                             | 9.49562                            | 504           |
| Benzo(a)anthracene                                                                           | < 6             | < 600                   | < 0.172              | < 12.4        | 4370                    | 1.32                 | 88.1          | < 600                   | < 0.174              | < 12.1        | < 0.555                          | < 0.714112                         | < 37.5        |
| Benzo(b)anthracene + Chrysene + Triphenylene                                                 | < 6             | 1050                    | 0.301                | 21.7          | 27900                   | 8.43                 | 563           | 1050                    | 0.304                | 21.2          | 3.01                             | 3.872141                           | 202           |
| Benzo(a)fluorene                                                                             | < 6             | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Benzo(a)pyrene                                                                               | < 6             | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Benzo(b)fluoranthene                                                                         | < 6             | < 600                   | < 0.172              | < 12.4        | 2130                    | 0.644                | 43            | < 600                   | < 0.174              | < 12.1        | < 0.33                           | < 0.424061                         | < 22.5        |
| Benzo(b)fluorene                                                                             | < 6             | < 600                   | < 0.172              | < 12.4        | 1350                    | 0.408                | 27.2          | < 600                   | < 0.174              | < 12.1        | < 0.251                          | < 0.32306                          | < 17.2        |
| Benzo(e)pyrene                                                                               | < 6             | < 600                   | < 0.172              | < 12.4        | 2690                    | 0.813                | 54.2          | < 600                   | < 0.174              | < 12.1        | < 0.386                          | < 0.496574                         | < 26.3        |
| Benzo(g,h,i)perylene                                                                         | < 6             | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Benzo(j+k)fluoranthenes                                                                      | < 6             | < 600                   | < 0.172              | < 12.4        | 717                     | 0.217                | 14.5          | < 600                   | < 0.174              | < 12.1        | < 0.188                          | < 0.241095                         | < 13          |
| Chloronaphthalene, 2-                                                                        | < 6             | 13300                   | 3.81                 | 274           | 45100                   | 13.6                 | 910           | 13400                   | 3.88                 | 271           | 7.11                             | 9.138567                           | 485           |
| Coronene                                                                                     | < 10            | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Dibenzo(a,c+a,h)anthracenes                                                                  | < 6             | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Dimethylantracene, 9,10-                                                                     | 23.6            | < 600                   | < 0.172              | < 12.4        | 2740                    | 0.828                | 55.3          | < 600                   | < 0.174              | < 12.1        | < 0.391                          | < 0.503048                         | < 26.6        |
| Dimethylbenzo(a)anthracene, 7,12-                                                            | < 2             | < 2                     | < 0.000573           | < 0.0412      | < 2                     | < 0.000604           | < 0.0403      | < 2                     | < 0.00058            | < 0.0405      | < 0.000586                       | < 0.000753                         | < 0.0407      |
| Fluoranthene                                                                                 | 17.1            | 4820                    | 1.38                 | 99.4          | 55600                   | 16.8                 | 1120          | 6400                    | 1.85                 | 130           | 6.68                             | 8.586721                           | 450           |
| Fluorene                                                                                     | 46.4            | 41000                   | 11.8                 | 846           | 69500                   | 21                   | 1400          | 43000                   | 12.5                 | 870           | 15.1                             | 19.37839                           | 1040          |
| Indeno(1,2,3-c,d)pyrene                                                                      | < 6             | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Methylantracene, 2-                                                                          | 7.7             | 7620                    | 2.18                 | 157           | 41100                   | 12.4                 | 829           | 8970                    | 2.6                  | 182           | 5.73                             | 7.372429                           | 389           |
| Methylcholanthrene, 3-                                                                       | < 10            | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Methylnaphthalene, 1-                                                                        | 144             | 312000                  | 89.5                 | 6430          | 384000                  | 116                  | 7740          | 289000                  | 83.8                 | 5850          | 96.4                             | 123.9575                           | 6680          |
| Methylnaphthalene, 2-                                                                        | 243             | 404000                  | 116                  | 8330          | 490000                  | 148                  | 9880          | 370000                  | 107                  | 7490          | 124                              | 159.0489                           | 8570          |
| Methylphenanthrene, 1-                                                                       | 9               | 12200                   | 3.5                  | 252           | 53500                   | 16.2                 | 1080          | 14800                   | 4.29                 | 299           | 7.98                             | 10.265                             | 543           |
| Methylphenanthrene, 9-                                                                       | 11              | 4020                    | 1.15                 | 82.9          | 21800                   | 6.59                 | 440           | 5580                    | 1.62                 | 113           | 3.12                             | 4.009892                           | 212           |
| Naphthalene                                                                                  | 547             | 512000                  | 147                  | 10600         | 606000                  | 183                  | 12200         | 509000                  | 148                  | 10300         | 159                              | 204.6055                           | 11000         |
| Perylene                                                                                     | < 6             | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Phenanthrene                                                                                 | 166             | 98500                   | 28.2                 | 2030          | 298000                  | 90                   | 6010          | 117000                  | 33.9                 | 2370          | 50.7                             | 65.22334                           | 3470          |
| Picene                                                                                       | < 10            | < 600                   | < 0.172              | < 12.4        | < 600                   | < 0.181              | < 12.1        | < 600                   | < 0.174              | < 12.1        | < 0.176                          | < 0.225945                         | < 12.2        |
| Pyrene                                                                                       | 12.3            | 3000                    | 0.86                 | 61.9          | 33500                   | 10.1                 | 676           | 4030                    | 1.17                 | 81.6          | 4.05                             | 5.207032                           | 273           |
| Tetralin                                                                                     | 181             | 86200                   | 24.7                 | 1780          | 87000                   | 26.3                 | 1750          | 78200                   | 22.7                 | 1580          | 24.6                             | 31.57063                           | 1700          |

#### Notes :

[1] Sample volume and volumetric flow rate based on dry referenced conditions (101.3 kPa and 25 °C)

'<' indicates that laboratory results were below the detection limit. The detection limit was used to calculate the concentration and emission rate.

Concentration and Emission Rate has been reported to

3 significant figures.

**Sampling Results - Dioxins and Furans**  
**SMC St. Marys - Kiln Stack**

| Test :<br>Sample Volume (Rm <sup>3</sup> ) <sup>(1)</sup><br>Stack Flow Rate (Rm <sup>3</sup> /s) <sup>(1)</sup> | Blank  | Test #1<br>3.49<br>71.9 |                      |               | Test #2<br>3.31<br>66.7 |                      |               | Test #3<br>3.45<br>69.8 |                      |               | Average<br>Concentration | Average<br>Concentration @ 25<br>°C and 11 % O <sub>2</sub> | Reg 419 Toxic Equivalency Factors |                          |                      |
|------------------------------------------------------------------------------------------------------------------|--------|-------------------------|----------------------|---------------|-------------------------|----------------------|---------------|-------------------------|----------------------|---------------|--------------------------|-------------------------------------------------------------|-----------------------------------|--------------------------|----------------------|
|                                                                                                                  |        | Lab Data                | Concentration        | Emission Rate | Lab Data                | Concentration        | Emission Rate | Lab Data                | Concentration        | Emission Rate |                          |                                                             | TEF                               | TEF<br>Concentration     | TEF Emission<br>Rate |
| Parameter                                                                                                        | (pg)   | (pg)                    | (pg/m <sup>3</sup> ) | (pg/s)        | (pg)                    | (pg/m <sup>3</sup> ) | (pg/s)        | (pg)                    | (pg/m <sup>3</sup> ) | (pg/s)        | (pg/m <sup>3</sup> )     | (pg/m <sup>3</sup> )                                        | -                                 | (pg TEQ/m <sup>3</sup> ) | (pg/s)               |
| 2,3,7,8-Tetra CDD *                                                                                              | < 0.44 | < 0.74                  | < 0.212              | < 15.3        | 16.2                    | 4.89                 | 327           | < 1.9                   | < 0.551              | < 38.4        | < 1.89                   | < 2.43                                                      | 1                                 | < 2.43                   | < 131                |
| 1,2,3,7,8-Penta CDD *                                                                                            | < 0.35 | < 0.51                  | < 0.146              | < 10.5        | 14                      | 4.23                 | 282           | 0.851                   | 0.247                | 17.2          | < 1.54                   | < 1.98                                                      | 1                                 | < 1.98                   | < 107                |
| 1,2,3,4,7,8-Hexa CDD *                                                                                           | < 0.37 | < 0.4                   | < 0.115              | < 8.25        | 5.94                    | 1.79                 | 120           | < 0.89                  | < 0.258              | < 18          | < 0.722                  | < 0.928                                                     | 0.1                               | < 0.0928                 | < 5.02               |
| 1,2,3,6,7,8-Hexa CDD *                                                                                           | 0.468  | < 0.68                  | < 0.195              | < 14          | 9.42                    | 2.85                 | 190           | < 1.1                   | < 0.246              | < 17.2        | < 1.1                    | < 1.41                                                      | 0.1                               | < 0.141                  | < 7.65               |
| 1,2,3,7,8,9-Hexa CDD *                                                                                           | < 0.34 | 0.822                   | 0.236                | 17            | < 4.1                   | < 1.24               | < 82.7        | < 0.83                  | < 0.241              | < 16.8        | < 0.572                  | < 0.735                                                     | 0.1                               | < 0.0735                 | < 3.98               |
| 1,2,3,4,6,7,8-Hepta CDD *                                                                                        | < 1.7  | 4.59                    | 1.32                 | 94.7          | 23                      | 6.95                 | 464           | 3.13                    | 0.907                | 63.3          | 3.06                     | 3.93                                                        | 0.01                              | 0.0393                   | 2.13                 |
| 1,2,3,4,6,7,8,9-Octa CDD *                                                                                       | < 7.2  | 13.2                    | 3.78                 | 272           | 26.9                    | 8.13                 | 542           | < 8.5                   | < 2.46               | < 172         | < 4.79                   | < 6.16                                                      | 0.0003                            | < 0.00185                | < 0.0999             |
| 2,3,7,8-Tetra CDF **                                                                                             | < 0.33 | 24.6                    | 7.05                 | 507           | 662                     | 200                  | 13400         | 44.8                    | 13                   | 907           | 73.4                     | 94.4                                                        | 0.1                               | 9.44                     | 510                  |
| 1,2,3,7,8-Penta CDF **                                                                                           | < 0.74 | 4.31                    | 1.24                 | 88.9          | 148                     | 44.7                 | 2980          | 7.18                    | 2.08                 | 145           | 16                       | 20.6                                                        | 0.03                              | 0.617                    | 33.4                 |
| 2,3,4,7,8-Penta CDF **                                                                                           | < 0.33 | 8.45                    | 2.42                 | 174           | 260                     | 78.6                 | 5240          | < 11                    | < 3.19               | < 223         | < 28.1                   | < 36.1                                                      | 0.3                               | < 10.8                   | < 586                |
| 1,2,3,4,7,8-Hexa CDF **                                                                                          | < 0.3  | < 2.8                   | < 0.803              | < 57.7        | 88.4                    | 26.7                 | 1780          | 3.79                    | 1.1                  | 76.7          | < 9.54                   | < 12.3                                                      | 0.1                               | < 1.23                   | < 66.3               |
| 1,2,3,6,7,8-Hexa CDF **                                                                                          | < 0.31 | 1.58                    | 0.453                | 32.6          | 52.9                    | 16                   | 1070          | < 1.4                   | < 0.406              | < 28.3        | < 5.61                   | < 7.21                                                      | 0.1                               | < 0.721                  | < 39                 |
| 2,3,4,6,7,8-Hexa CDF **                                                                                          | < 0.3  | < 2.5                   | < 0.717              | < 51.6        | 60.8                    | 18.4                 | 1230          | < 2.1                   | < 0.609              | < 42.5        | < 6.57                   | < 8.45                                                      | 0.1                               | < 0.845                  | < 45.7               |
| 1,2,3,7,8,9-Hexa CDF **                                                                                          | < 0.39 | < 0.96                  | < 0.275              | < 19.8        | 12.3                    | 3.72                 | 248           | < 1.3                   | < 0.377              | < 26.3        | < 1.46                   | < 1.88                                                      | 0.1                               | < 0.188                  | < 10.1               |
| 1,2,3,4,6,7,8-Hepta CDF **                                                                                       | 0.758  | < 3.7                   | < 1.06               | < 76.3        | 71.5                    | 21.6                 | 1440          | 4.24                    | 1.23                 | 85.8          | < 7.96                   | < 10.2                                                      | 0.01                              | < 0.102                  | < 5.53               |
| 1,2,3,4,7,8,9-Hepta CDF **                                                                                       | < 0.79 | < 0.55                  | < 0.158              | < 11.3        | < 5.8                   | < 1.75               | < 117         | < 0.75                  | < 0.217              | < 15.2        | < 0.709                  | < 0.912                                                     | 0.01                              | < 0.00912                | < 0.493              |
| 1,2,3,4,6,7,8,9-Octa CDF **                                                                                      | < 3.3  | 5.16                    | 1.48                 | 106           | 11.9                    | 3.6                  | 240           | 11.6                    | 3.36                 | 235           | 2.81                     | 3.61                                                        | 0.0003                            | 0.00108                  | 0.0586               |
| Parameter                                                                                                        | (pg)   | (pg)                    | (pg/m <sup>3</sup> ) | (pg/s)        | (pg)                    | (pg/m <sup>3</sup> ) | (pg/s)        | (pg)                    | (pg/m <sup>3</sup> ) | (pg/s)        | (pg/m <sup>3</sup> )     | (pg/m <sup>3</sup> )                                        | -                                 | (pg TEQ/m <sup>3</sup> ) | (pg/s)               |
| 33'44'-TetraCB-(77)                                                                                              | < 8    | 244                     | 70                   | 5030          | 1610                    | 486                  | 32500         | 322                     | 93.3                 | 6520          | 217                      | 279                                                         | 0.0001                            | 0.0279                   | 1.51                 |
| 344'5'-TetraCB-(81)                                                                                              | < 7.7  | < 19                    | < 5.45               | < 392         | 172                     | 52                   | 3470          | < 37                    | < 10.7               | < 749         | < 22.7                   | < 29.2                                                      | 0.0003                            | < 0.00876                | < 0.473              |
| 233'44'-PentaCB-(105)                                                                                            | < 9.8  | < 320                   | < 91.7               | < 6600        | 3590                    | 1080                 | 72400         | < 510                   | < 148                | < 10300       | < 441                    | < 567                                                       | 0.00003                           | < 0.017                  | < 0.919              |
| 23'44'5'-PentaCB-(114)                                                                                           | < 4.5  | 27.1                    | 7.77                 | 559           | 246                     | 74.3                 | 4960          | 58.4                    | 16.9                 | 1180          | 33                       | 42.4                                                        | 0.00003                           | 0.00127                  | 0.0688               |
| 23'44'5'-PentaCB-(118)                                                                                           | 36.9   | 1210                    | 347                  | 25000         | 7550                    | 2280                 | 152000        | 1590                    | 461                  | 32200         | 1030                     | 1320                                                        | 0.00003                           | 0.0397                   | 2.15                 |
| 23'44'5'-PentaCB-(123)                                                                                           | < 4.5  | < 30                    | < 8.6                | < 619         | < 160                   | < 48.3               | < 3230        | 31.5                    | 9.13                 | 637           | < 22                     | < 28.3                                                      | 0.00003                           | < 0.000849               | < 0.0459             |
| 33'44'5'-PentaCB-(126)                                                                                           | < 4.2  | < 12                    | < 3.44               | < 247         | 170                     | 51.4                 | 3430          | < 20                    | < 5.8                | < 405         | < 20.2                   | < 26                                                        | 0.1                               | < 2.6                    | < 140                |
| HexaCB-(156)†(157)                                                                                               | < 5.6  | 107                     | 30.7                 | 2210          | 1410                    | 426                  | 28400         | 158                     | 45.8                 | 3200          | 167                      | 215                                                         | 0.00003                           | 0.00644                  | 0.348                |
| 23'44'55'-HexaCB-(167)                                                                                           | < 3.7  | 65.5                    | 18.8                 | 1350          | 670                     | 202                  | 13500         | 105                     | 30.4                 | 2120          | 83.9                     | 108                                                         | 0.00003                           | 0.00324                  | 0.175                |
| 33'44'55'-HexaCB-(169)                                                                                           | < 3.4  | < 11                    | < 3.15               | < 227         | 29.1                    | 8.79                 | 587           | < 18                    | < 5.22               | < 364         | < 5.72                   | < 7.35                                                      | 0.03                              | < 0.221                  | < 11.9               |
| 233'44'55'-HeptaCB-(189)                                                                                         | < 4.4  | 23.2                    | 6.65                 | 478           | 273                     | 82.5                 | 5510          | < 16                    | < 4.64               | < 324         | < 31.3                   | < 40.2                                                      | 0.00003                           | < 0.00121                | < 0.0653             |
| <b>Total Toxic Equivalency</b>                                                                                   |        |                         |                      |               |                         |                      |               |                         |                      |               |                          |                                                             |                                   | < 31.7                   | < 1710               |

**Notes:**

[1] Sample volume and volumetric flow rate based on dry referenced conditions (101.3 kPa and 25°C)

'<' indicates that laboratory results were below the Reportable Detection Limit (RDL). This detection limit was used to calculate the concentration and emission rate.

Concentration and Emission Rate has been reported to 3 significant figures.

\*CDD = chlorodibenzo-*p*-dioxin

\*\*CDF = chlorodibenzo-*p*-furan

\*\*\*CB = chlorobenzene

## Semi-Volatile Organic Compounds Sampling

| <b>Facility:</b> SMC St. Marys<br><b>City:</b> St. Marys<br><b>Source:</b> Kiln Stack<br><b>Reference Method:</b> Environment Canada EPS/1/RM/2 |                 |                    | <b>Operator:</b> MB<br><b>Entered by:</b> MB<br><b>Checked by:</b> AT |                    |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|-----------------------------------------------------------------------|--------------------|-----------------|
| DATA INPUTS                                                                                                                                     | Symbol          | Units              | Test #1<br>SVOC                                                       | Test #2<br>SVOC    | Test #3<br>SVOC |
| Date                                                                                                                                            | -               | -                  | 8-Apr-25                                                              | 8-Apr-25, 9-Apr-25 | 9-Apr-25        |
| Start Time                                                                                                                                      | -               | -                  | 9:37 AM                                                               | 2:28 PM, 8:35 AM   | 11:42 AM        |
| End Time                                                                                                                                        | -               | -                  | 12:53 PM                                                              | 3:30 PM, 10:17 AM  | 2:53 PM         |
| Round Stack, Diameter                                                                                                                           | $d_s$           | in                 | 94.5                                                                  | 94.5               | 94.5            |
| Standard Temperature                                                                                                                            | $T_s$           | °F                 | 77                                                                    | 77                 | 77              |
| Standard Pressure                                                                                                                               | $P_s$           | in.Hg              | 29.9                                                                  | 29.9               | 29.9            |
| Nozzle Diameter                                                                                                                                 | $D_n$           | in                 | 0.200                                                                 | 0.200              | 0.200           |
| Average Stack Temperature                                                                                                                       | $T_s$           | °F                 | 242                                                                   | 271                | 250             |
| Average Meter Temperature                                                                                                                       | $T_m$           | °F                 | 35                                                                    | 42                 | 53              |
| Barometric Pressure                                                                                                                             | $P_{bar}$       | " Hg               | 28.72                                                                 | 28.72              | 29.00           |
| Stack Static Pressure                                                                                                                           | $P_g$           | " H <sub>2</sub> O | -1.2                                                                  | -1.2               | -1.2            |
| Average Delta H                                                                                                                                 | dH              | " H <sub>2</sub> O | 1.59                                                                  | 1.45               | 1.54            |
| Average Velocity Head (root mean square)                                                                                                        | $dP_{rms}$      | " H <sub>2</sub> O | 1.46                                                                  | 1.35               | 1.40            |
| Pitot Coefficient                                                                                                                               | $C_p$           | -                  | 0.855                                                                 | 0.855              | 0.855           |
|                                                                                                                                                 | Pitot ID :      |                    | 8' #1                                                                 |                    |                 |
| Gas Sample Volume                                                                                                                               | $V_m$           | ft <sup>3</sup>    | 122.29                                                                | 117.76             | 124.13          |
| DGM Calibration Factor                                                                                                                          | Y               | -                  | 0.9637                                                                | 0.9637             | 0.9637          |
|                                                                                                                                                 | $\Delta H_{@}$  | -                  | 1.9323                                                                | 1.9323             | 1.9323          |
|                                                                                                                                                 | DGM ID:         |                    | H                                                                     |                    |                 |
| Total Sampling Time                                                                                                                             | min             | minutes            | 180                                                                   | 180                | 180             |
| Stack Gas Oxygen Concentration                                                                                                                  | O <sub>2</sub>  | %                  | 13.2                                                                  | 13.2               | 13.2            |
| Stack Gas Carbon Dioxide Concentration                                                                                                          | CO <sub>2</sub> | %                  | 12.5                                                                  | 12.5               | 12.5            |
| Impinger Gain                                                                                                                                   | $W_w$           | g                  | 342.7                                                                 | 358.7              | 330.7           |

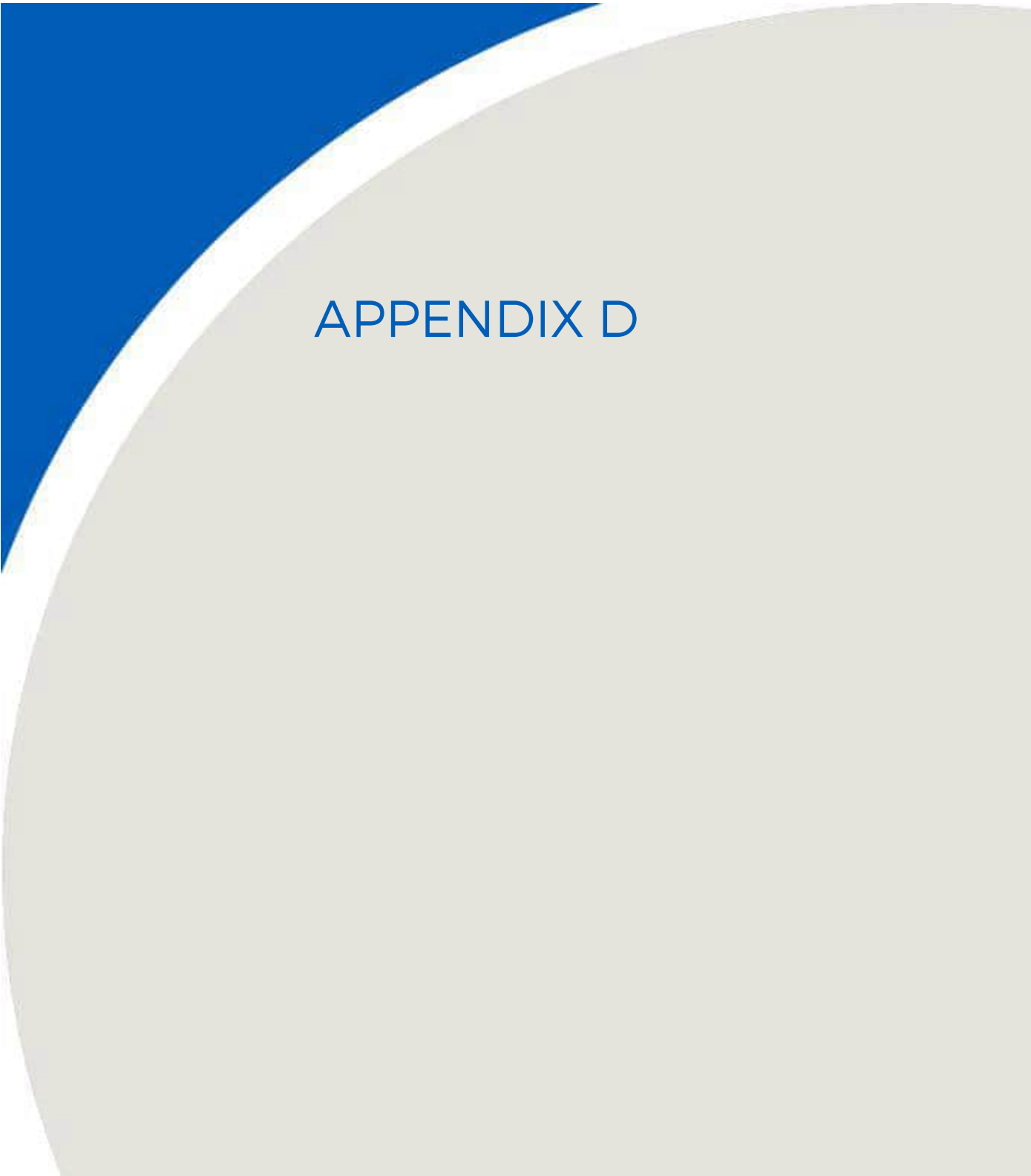
## Semi-Volatile Organic Compounds Sampling

| <b>Facility:</b> SMC St. Marys<br><b>City:</b> St. Marys<br><b>Source:</b> Kiln Stack<br><b>Reference Method:</b> Environment Canada EPS/1/RM/2 |                         |                     | <b>Operator:</b> MB<br><b>Entered by:</b> MB<br><b>Checked by:</b> AT |                 |                 |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------|-----------------------------------------------------------------------|-----------------|-----------------|-----------------|
| Emissions Calculations                                                                                                                          | Symbol                  | Units               | Test #1<br>SVOC                                                       | Test #2<br>SVOC | Test #3<br>SVOC | AVERAGE<br>SVOC |
| Nozzle Area                                                                                                                                     | $A_n$                   | ft <sup>2</sup>     | 2.18E-04                                                              | 2.18E-04        | 2.18E-04        | -               |
| Stack Area                                                                                                                                      | $A_s$                   | ft <sup>2</sup>     | 48.69                                                                 | 48.69           | 48.69           | -               |
| Average Stack Temperature                                                                                                                       | $T_s$                   | °R                  | 702                                                                   | 731             | 710             | 714             |
| Average DGM Temperature                                                                                                                         | $T_m$                   | °R                  | 495                                                                   | 502             | 513             | 503             |
| Sample Volume at Reference Conditions                                                                                                           | $V_{mStd}$              | ft <sup>3</sup>     | 123.25                                                                | 116.95          | 121.92          | -               |
|                                                                                                                                                 | $V_{mmstd}$             | m <sup>3</sup>      | <b>3.49</b>                                                           | <b>3.31</b>     | <b>3.45</b>     | -               |
| Vol. of Water Vapour                                                                                                                            | $V_{wStd}$              | ft <sup>3</sup>     | 16.45                                                                 | 17.22           | 15.87           | -               |
| Water Fraction                                                                                                                                  | $B_{ws}$                |                     | 11.8%                                                                 | 12.8%           | 11.5%           | 12.0%           |
| Molecular Weight, dry                                                                                                                           | $M_d$                   | g/mole              | 30.63                                                                 | 30.63           | 30.63           | 30.63           |
| Molecular Weight, wet                                                                                                                           | $M_w$                   | g/mole              | 29.15                                                                 | 29.01           | 29.18           | 29.11           |
| Absolute Stack Pressure                                                                                                                         | $P_s$                   | in. Hg              | 28.63                                                                 | 28.63           | 28.91           | 28.73           |
| Stack Gas Velocity                                                                                                                              | $U_s$                   | ft/s                | 80.75                                                                 | 79.05           | 78.32           | 79.38           |
|                                                                                                                                                 | $U_{sm}$                | m/s                 | <b>24.61</b>                                                          | <b>24.10</b>    | <b>23.87</b>    | 24.19           |
| Actual Gas Flow Rate                                                                                                                            | $Q_{act}$               | acf/min             | 235,922                                                               | 230,965         | 228,839         | 231,909         |
| Dry Gas Flow Rate (dry, ref)                                                                                                                    | $Q_{ref}$               | dscf/min            | 152,455                                                               | 141,465         | 147,974         | 147,298         |
|                                                                                                                                                 | $Q_{mref}$              | m <sup>3</sup> /min | <b>4316</b>                                                           | <b>4005</b>     | <b>4189</b>     | 4,170           |
|                                                                                                                                                 | $Q_{mref} (Actual O_2)$ | m <sup>3</sup> /s   | <b>71.93</b>                                                          | <b>66.75</b>    | <b>69.82</b>    | 69.50           |
|                                                                                                                                                 | $Q_{mref} (11\% O_2)$   | m <sup>3</sup> /s   | <b>55.95</b>                                                          | <b>51.91</b>    | <b>54.30</b>    | 54.06           |
| Isokinetic Rate                                                                                                                                 | I                       | %                   | 100                                                                   | 102             | 103             | 102             |







The background features a large, light gray circular shape on the right side, partially overlapping a blue triangular shape on the left. The text 'APPENDIX D' is centered within the gray circle.

## APPENDIX D

M26 - Hydrogen Halide and Ammonia Sampling

|                                          |           |            |         |               |            |         |               |            |         |               |         |                                                |               |
|------------------------------------------|-----------|------------|---------|---------------|------------|---------|---------------|------------|---------|---------------|---------|------------------------------------------------|---------------|
| Test :                                   | Blank     | Test No. 1 |         |               | Test No. 2 |         |               | Test No. 3 |         |               | Average |                                                |               |
| Sample ID :                              | BLANK-M26 | M26-T1     |         |               | M26-T2     |         |               | M26-T3     |         |               | -       |                                                |               |
| Sample Volume (Rm³) <sup>[1]</sup> :     | -         | 0.098      |         |               | 0.094      |         |               | 0.094      |         |               | 0.095   |                                                |               |
| Stack Flow Rate (Rm³/s) <sup>[2]</sup> : | -         | 76.99      |         |               | 72.76      |         |               | 74.35      |         |               | 74.70   |                                                |               |
| Parameter                                | Lab Data  | Lab Data   | Conc.   | Emission Rate | Lab Data   | Conc.   | Emission Rate | Lab Data   | Conc.   | Emission Rate | Conc.   | Corrected to 11% O <sub>2</sub> <sup>[3]</sup> | Emission Rate |
|                                          | (mg)      | (mg)       | (mg/m³) | (mg/s)        | (mg)       | (mg/m³) | (mg/s)        | (mg)       | (mg/m³) | (mg/s)        | (mg/m³) | (mg/m³)                                        | (mg/s)        |
| Hydrogen Chloride                        | <0.021    | 0.434      | 4.44    | 342           | 0.811      | 8.62    | 627           | 0.926      | 9.81    | 729           | 7.62    | 9.803466                                       | 566           |
| Ammonia (NH <sub>3</sub> )               | <0.020    | 0.907      | 9.28    | 715           | 0.874      | 9.29    | 676           | 1.02       | 10.8    | 803           | 9.79    | 12.59204                                       | 731           |

Notes:

[1] Sample volume and volumetric flow rate based on dry referenced conditions (101.3kPa, 25 ° C)

[2] Flow rate based on average of isokentic tests conducted that day

[3] Correct O<sub>2</sub> to 11% equation **a\*((20.9-11)/(20.91-b))** a = concentration @ original O<sub>2</sub> b = original O<sub>2</sub> %

## M26 - Hydrogen Halide and Ammonia Sampling

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> AT         |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #1            | <b>Test Date:</b> Apr-09-25 |
| <b>Method:</b> USEPA Method 26 | <b>PBar:</b> 29.00          |
|                                | <b>DGM Y:</b> 1.028         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 9:36                   |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 2.0                                      | 0.104                      | 37                    | 1.0               | 33                        | -                           |
| 5                                         | 2.0                                      | 8                          | 37                    | 1.0               | 34                        | 1.5                         |
| 10                                        | 2.0                                      | 15                         | 38                    | 1.0               | 34                        | 1.5                         |
| 15                                        | 2.0                                      | 23                         | 38                    | 1.0               | 35                        | 1.6                         |
| 20                                        | 2.0                                      | 30                         | 39                    | 1.0               | 35                        | 1.4                         |
| 25                                        | 2.0                                      | 38                         | 39                    | 1.0               | 35                        | 1.6                         |
| 30                                        | 2.0                                      | 45                         | 40                    | 1.0               | 35                        | 1.4                         |
| 35                                        | 2.0                                      | 53                         | 41                    | 1.0               | 35                        | 1.6                         |
| 40                                        | 2.0                                      | 61                         | 41                    | 1.0               | 36                        | 1.6                         |
| 45                                        | 2.0                                      | 68                         | 42                    | 1.0               | 36                        | 1.4                         |
| 50                                        | 2.0                                      | 76                         | 43                    | 1.0               | 36                        | 1.6                         |
| 55                                        | 2.0                                      | 83                         | 43                    | 1.0               | 36                        | 1.4                         |
| 60                                        | 2.0                                      | 90.962                     | 43                    | 1.0               | 36                        | 1.6                         |
| <b>END TIME:</b> 10:36                    |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 2.0                                      |                            | 40                    |                   | 35                        | 1.51                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.091                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.098</b>               |                       |                   |                           |                             |

## M26 - Hydrogen Halide and Ammonia Sampling

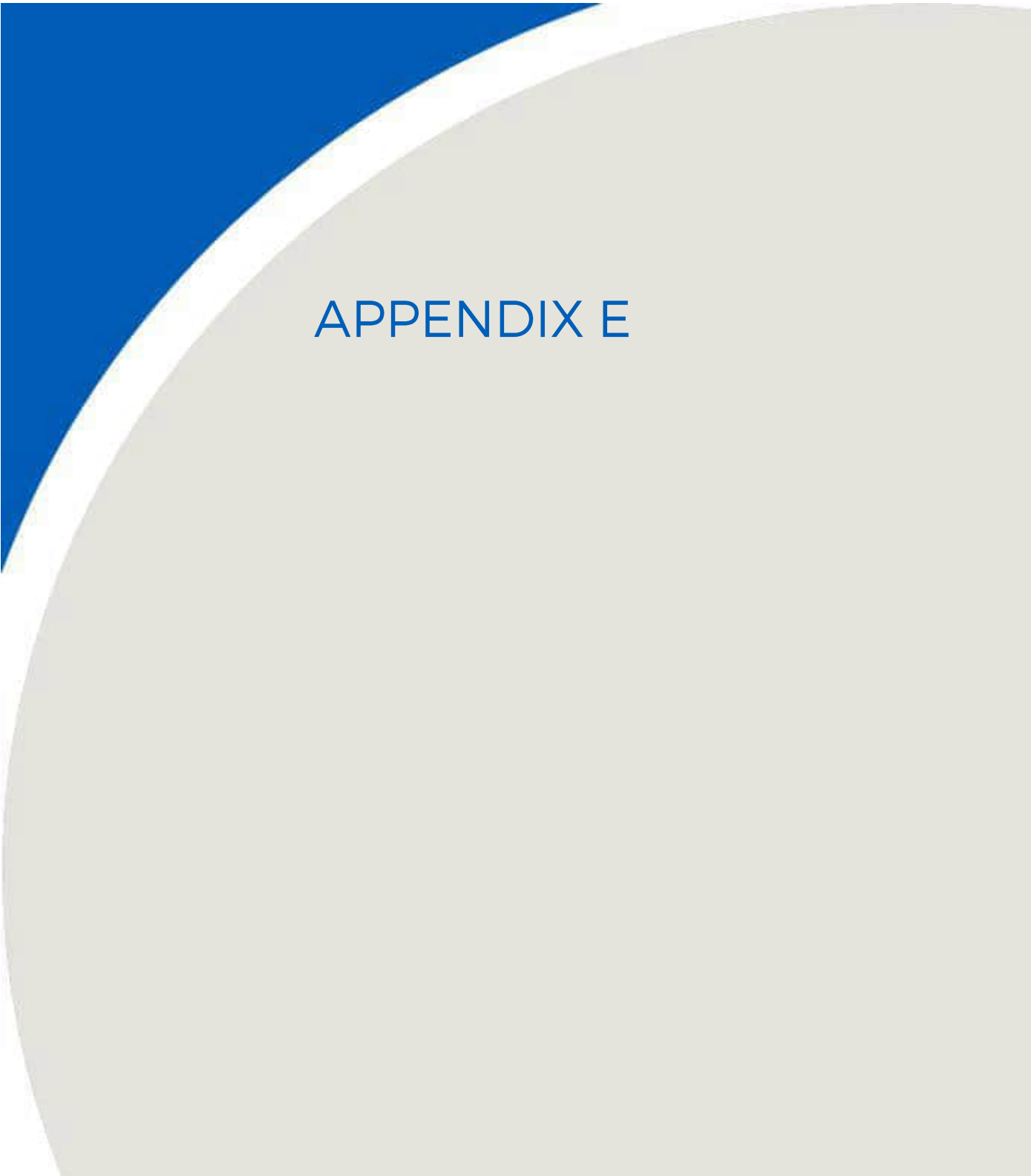
|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> AT         |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #2            | <b>Test Date:</b> Apr-09-25 |
| <b>Method:</b> USEPA Method 26 | <b>PBar:</b> 29.00          |
|                                | <b>DGM Y:</b> 1.028         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 12:09                  |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 2.0                                      | 0.230                      | 46                    | 1.0               | 38                        | -                           |
| 5                                         | 2.0                                      | 8                          | 47                    | 1.0               | 38                        | 1.6                         |
| 10                                        | 2.0                                      | 15                         | 48                    | 1.0               | 39                        | 1.4                         |
| 15                                        | 2.0                                      | 23                         | 48                    | 1.0               | 39                        | 1.6                         |
| 20                                        | 2.0                                      | 30                         | 48                    | 1.0               | 40                        | 1.4                         |
| 25                                        | 2.0                                      | 37                         | 49                    | 1.0               | 40                        | 1.4                         |
| 30                                        | 2.0                                      | 45                         | 49                    | 1.0               | 40                        | 1.6                         |
| 35                                        | 2.0                                      | 52                         | 50                    | 1.0               | 40                        | 1.4                         |
| 40                                        | 2.0                                      | 60                         | 52                    | 1.0               | 40                        | 1.6                         |
| 45                                        | 2.0                                      | 67                         | 52                    | 1.0               | 41                        | 1.4                         |
| 50                                        | 2.0                                      | 74                         | 53                    | 1.0               | 41                        | 1.4                         |
| 55                                        | 2.0                                      | 82                         | 54                    | 1.0               | 42                        | 1.6                         |
| 60                                        | 2.0                                      | 89.438                     | 55                    | 1.0               | 42                        | 1.5                         |
| <b>END TIME:</b> 13:09                    |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 2.0                                      |                            | 50                    |                   | 40                        | 1.49                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.089                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.094</b>               |                       |                   |                           |                             |

## M26 - Hydrogen Halide and Ammonia Sampling

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> AT         |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #3            | <b>Test Date:</b> Apr-09-25 |
| <b>Method:</b> USEPA Method 26 | <b>PBar:</b> 29.00          |
|                                | <b>DGM Y:</b> 1.028         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 13:22                  |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 2.0                                      | 0.335                      | 56                    | 1.0               | 40                        | -                           |
| 5                                         | 2.0                                      | 8                          | 57                    | 1.0               | 40                        | 1.5                         |
| 10                                        | 2.0                                      | 15                         | 56                    | 1.0               | 40                        | 1.4                         |
| 15                                        | 2.0                                      | 23                         | 55                    | 1.0               | 40                        | 1.6                         |
| 20                                        | 2.0                                      | 30                         | 54                    | 1.0               | 40                        | 1.4                         |
| 25                                        | 2.0                                      | 38                         | 53                    | 1.0               | 39                        | 1.6                         |
| 30                                        | 2.0                                      | 45                         | 53                    | 1.0               | 39                        | 1.4                         |
| 35                                        | 2.0                                      | 53                         | 53                    | 1.0               | 39                        | 1.6                         |
| 40                                        | 2.0                                      | 60                         | 53                    | 1.0               | 38                        | 1.4                         |
| 45                                        | 2.0                                      | 68                         | 52                    | 1.0               | 38                        | 1.6                         |
| 50                                        | 2.0                                      | 76                         | 52                    | 1.0               | 38                        | 1.6                         |
| 55                                        | 2.0                                      | 83                         | 51                    | 1.0               | 38                        | 1.4                         |
| 60                                        | 2.0                                      | 90.474                     | 51                    | 1.0               | 38                        | 1.5                         |
| <b>END TIME:</b> 14:22                    |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 2.0                                      |                            | 54                    |                   | 39                        | 1.50                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.090                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.094</b>               |                       |                   |                           |                             |

A large decorative graphic on the left side of the page, featuring a blue triangle at the top left and a large, light gray curved shape that dominates the lower half of the page.

# APPENDIX E

NCASI 98.01 - Methaol and Phenol Sampling

|                                                                                                                                     |                              |                                                |                      |               |                                                |                      |               |                                                |                      |               |                                                            |                      |        |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|----------------------|---------------|------------------------------------------------|----------------------|---------------|------------------------------------------------|----------------------|---------------|------------------------------------------------------------|----------------------|--------|
| Test :<br>Sample ID :<br>Sample Volume (Rm <sup>3</sup> ) <sup>[1]</sup> :<br>Stack Flow Rate (Rm <sup>3</sup> /s) <sup>[2]</sup> : | Blank<br>BLANK-M26<br>-<br>- | Test No. 1<br>NCASI-98.01-T1<br>0.058<br>76.91 |                      |               | Test No. 2<br>NCASI-98.01-T2<br>0.067<br>72.76 |                      |               | Test No. 3<br>NCASI-98.01-T3<br>0.063<br>74.35 |                      |               | Average<br>-<br>0.063<br>74.67                             |                      |        |
| Parameter                                                                                                                           | Lab Data                     | Lab Data                                       | Conc.                | Emission Rate | Lab Data                                       | Conc.                | Emission Rate | Lab Data                                       | Conc.                | Emission Rate | Conc.<br>Corrected to<br>11% O <sub>2</sub> <sup>[3]</sup> | Emission Rate        |        |
|                                                                                                                                     | (ug)                         | (ug)                                           | (mg/m <sup>3</sup> ) | (mg/s)        | (ug)                                           | (mg/m <sup>3</sup> ) | (mg/s)        | (ug)                                           | (mg/m <sup>3</sup> ) | (mg/s)        | (mg/m <sup>3</sup> )                                       | (mg/m <sup>3</sup> ) | (mg/s) |
| Methanol                                                                                                                            | ND                           | < 10                                           | < 0.17               | < 13          | < 10                                           | < 0.15               | < 11          | < 10                                           | < 0.16               | < 12          | < 0.16                                                     | < 0.21               | < 12   |
| Phenol                                                                                                                              | ND                           | < 10                                           | < 0.17               | < 13          | < 10                                           | < 0.15               | < 11          | < 10                                           | < 0.16               | < 12          | < 0.16                                                     | < 0.21               | < 12   |

Notes:  
[1] Sample volume and volumetric flow rate based on dry referenced conditions (101.3kPa, 25 ° C)  
[2] Flow rate based on average of isokentic tests conducted that day  
[3] Correct O<sub>2</sub> to 11% equation **a\*((20.9-11)/(20.91-b))** a = concentration @ original O<sub>2</sub> b = original O<sub>2</sub> %

## NCASI 98.01 - Methaol and Phenol Sampling

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> PB, MB, AT |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #1            | <b>Test Date:</b> Apr-11-25 |
| <b>Method:</b> NASI 98.01      | <b>PBar:</b> 28.91          |
|                                | <b>DGM Y:</b> 1.028         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 8:09                   |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 0.0                                      | 0.0                        | 57                    | 0.0               | 32                        | -                           |
| 5                                         | 1.0                                      | 5.10                       | 57                    | 0.0               | 32                        | 1.0                         |
| 10                                        | 1.0                                      | 10.07                      | 57                    | 0.0               | 32                        | 1.0                         |
| 15                                        | 1.0                                      | 15.13                      | 57                    | 0.0               | 32                        | 1.0                         |
| 20                                        | 1.0                                      | 20.16                      | 58                    | 0.0               | 32                        | 1.0                         |
| 25                                        | 1.0                                      | 25.22                      | 58.5                  | 0.0               | 32                        | 1.0                         |
| 30                                        | 1.0                                      | 30.27                      | 59                    | 0.0               | 32                        | 1.0                         |
| 35                                        | 1.0                                      | 35.30                      | 59                    | 0.0               | 33                        | 1.0                         |
| 40                                        | 1.0                                      | 40.34                      | 59                    | 0.0               | 33                        | 1.0                         |
| 45                                        | 1.0                                      | 45.37                      | 59                    | 0.0               | 33                        | 1.0                         |
| 50                                        | 1.0                                      | 50.41                      | 59                    | 0.0               | 33                        | 1.0                         |
| 55                                        | 1.0                                      | 55.58                      | 59                    | 0.0               | 33                        | 1.0                         |
| 60                                        | 1.0                                      | 60.50                      | 60                    | 0.0               | 34                        | 1.0                         |
| <b>END TIME:</b> 9:09                     |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 0.9                                      |                            | 99                    |                   | 33                        | 1.01                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.061                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.058</b>               |                       |                   |                           |                             |

## NCASI 98.01 - Methaol and Phenol Sampling

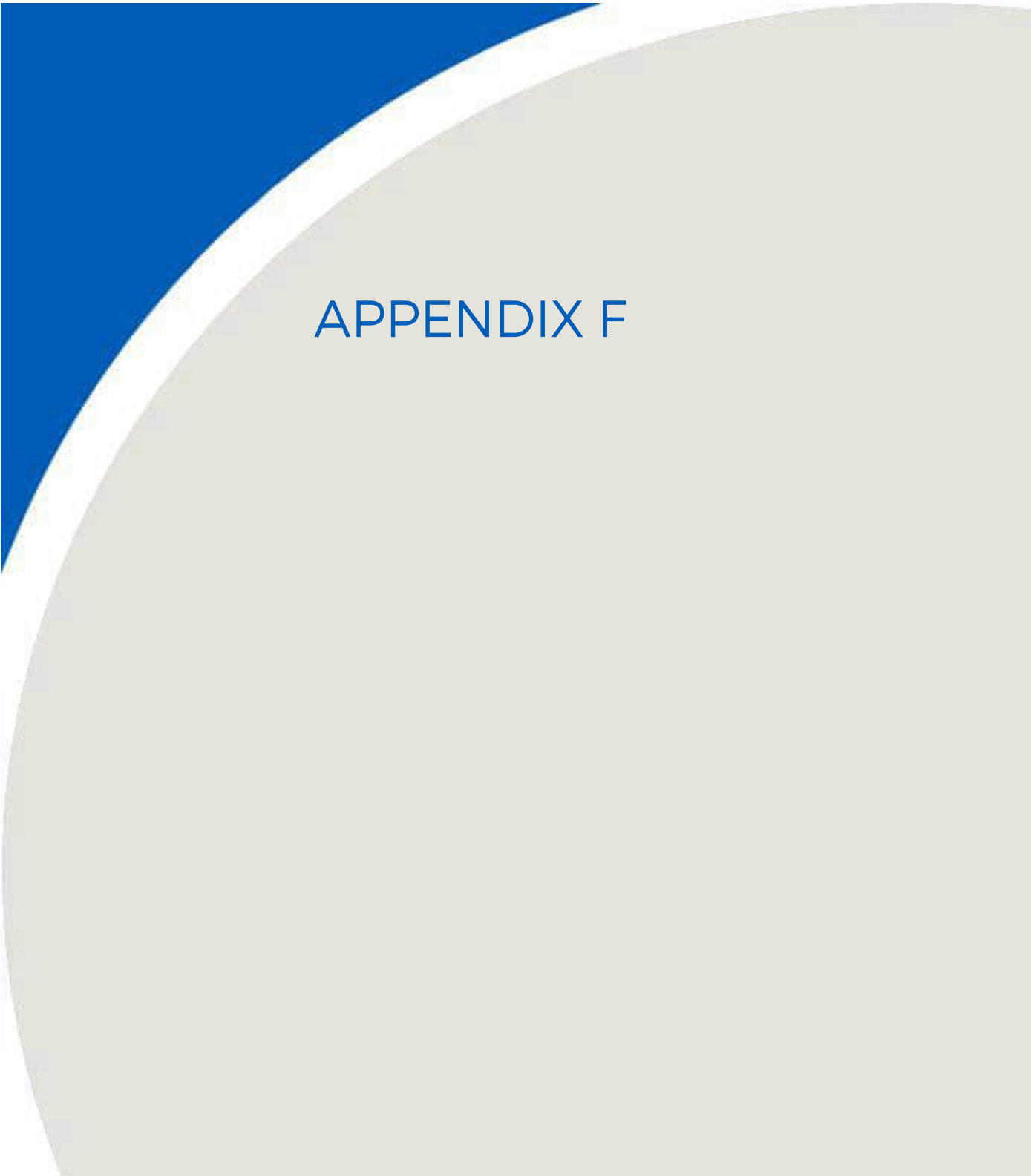
|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> PB, MB, AT |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #2            | <b>Test Date:</b> Apr-11-25 |
| <b>Method:</b> NASI 98.01      | <b>PBar:</b> 28.91          |
|                                | <b>DGM Y:</b> 1.028         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 9:36                   |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 0.0                                      | 0.0                        | 60                    | 0.0               | 32                        | -                           |
| 5                                         | 1.0                                      | 5.42                       | 60                    | 0.0               | 33                        | 1.1                         |
| 10                                        | 1.0                                      | 10.84                      | 60                    | 0.0               | 33                        | 1.1                         |
| 15                                        | 1.0                                      | 16.31                      | 60                    | 0.0               | 33                        | 1.1                         |
| 20                                        | 1.0                                      | 21.67                      | 61                    | 0.0               | 33                        | 1.1                         |
| 25                                        | 1.0                                      | 27.07                      | 60                    | 0.0               | 33                        | 1.1                         |
| 30                                        | 1.0                                      | 32.82                      | 61                    | 0.0               | 34                        | 1.2                         |
| 35                                        | 1.0                                      | 37.97                      | 61                    | 0.0               | 34                        | 1.0                         |
| 40                                        | 1.0                                      | 43.36                      | 61                    | 0.0               | 34                        | 1.1                         |
| 45                                        | 1.0                                      | 48.76                      | 61                    | 0.0               | 34                        | 1.1                         |
| 50                                        | 1.0                                      | 54.21                      | 61                    | 0.0               | 34                        | 1.1                         |
| 55                                        | 1.0                                      | 59.69                      | 61                    | 0.0               | 34                        | 1.1                         |
| 60                                        | 1.0                                      | 65.03                      | 62                    | 0.0               | 34                        | 1.1                         |
| <b>END TIME:</b> 10:36                    |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 0.9                                      |                            | 61                    |                   | 33                        | 1.08                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.065                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.067</b>               |                       |                   |                           |                             |

## NCASI 98.01 - Methaol and Phenol Sampling

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> PB, MB, AT |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #3            | <b>Test Date:</b> Apr-11-25 |
| <b>Method:</b> NASI 98.01      | <b>PBar:</b> 28.91          |
|                                | <b>DGM Y:</b> 1.028         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 10:55                  |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 1.0                                      | 0.0                        | 62                    | 0.0               | 34                        | -                           |
| 5                                         | 1.0                                      | 5.17                       | 62                    | 0.0               | 34                        | 1.0                         |
| 10                                        | 1.0                                      | 10.46                      | 62                    | 0.0               | 34                        | 1.1                         |
| 15                                        | 1.0                                      | 15.48                      | 63                    | 0.0               | 34                        | 1.0                         |
| 20                                        | 1.0                                      | 20.64                      | 63                    | 0.0               | 34                        | 1.0                         |
| 25                                        | 1.0                                      | 25.91                      | 63                    | 0.0               | 34                        | 1.1                         |
| 30                                        | 1.0                                      | 31.04                      | 63                    | 0.0               | 34                        | 1.0                         |
| 35                                        | 1.0                                      | 36.22                      | 63                    | 0.0               | 34                        | 1.0                         |
| 40                                        | 1.0                                      | 41.39                      | 63                    | 0.0               | 34                        | 1.0                         |
| 45                                        | 1.0                                      | 46.58                      | 63                    | 0.0               | 34                        | 1.0                         |
| 50                                        | 1.0                                      | 51.80                      | 63                    | 0.0               | 34                        | 1.0                         |
| 55                                        | 1.0                                      | 56.99                      | 63                    | 0.0               | 34                        | 1.0                         |
| 60                                        | 1.0                                      | 62.08                      | 63                    | 0.0               | 34                        | 1.0                         |
| <b>END TIME:</b> 11:55                    |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 1.0                                      |                            | 63                    |                   | 34                        | 1.03                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.062                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.063</b>               |                       |                   |                           |                             |

A decorative background graphic featuring a large, light gray circular shape on the right side of the page. On the left side, there is a blue triangular shape pointing towards the center, separated from the gray circle by a thin white curved line.

## APPENDIX F

NCASI A105 - Aldehydes Sampling

|                                          |           |               |         |               |               |         |               |               |         |               |         |                                                |               |
|------------------------------------------|-----------|---------------|---------|---------------|---------------|---------|---------------|---------------|---------|---------------|---------|------------------------------------------------|---------------|
| Test :                                   | Blank     | Test No. 1    |         |               | Test No. 2    |         |               | Test No. 3    |         |               | Average |                                                |               |
| Sample ID :                              | BLANK-M26 | NCASI-A105-T1 |         |               | NCASI-A105-T2 |         |               | NCASI-A105-T3 |         |               | -       |                                                |               |
| Sample Volume (Rm³) <sup>[1]</sup> :     | -         | 0.031         |         |               | 0.035         |         |               | 0.032         |         |               | 0.033   |                                                |               |
| Stack Flow Rate (Rm³/s) <sup>[2]</sup> : | -         | 76.91         |         |               | 72.76         |         |               | 74.35         |         |               | 74.67   |                                                |               |
| Parameter                                | Lab Data  | Lab Data      | Conc.   | Emission Rate | Lab Data      | Conc.   | Emission Rate | Lab Data      | Conc.   | Emission Rate | Conc.   | Corrected to 11% O <sub>2</sub> <sup>[3]</sup> | Emission Rate |
|                                          | (ug)      | (ug)          | (mg/m³) | (mg/s)        | (ug)          | (mg/m³) | (mg/s)        | (ug)          | (mg/m³) | (mg/s)        | (mg/m³) | (mg/m³)                                        | (mg/s)        |
|                                          |           |               |         |               |               |         |               |               |         |               |         |                                                |               |
| Acetaldehyde                             | 4.57      | 884           | 28.50   | 2190          | 843           | 24.40   | 1780          | 683           | 21.10   | 1570          | 24.70   | 31.70                                          | 1840          |
| Acrolein                                 | ND        | 174           | 5.61    | 431           | 166           | 4.81    | 350           | 129           | 3.98    | 296           | 4.80    | 6.17                                           | 359.000       |
| Propionaldehyde                          | 4.46      | 279           | 8.99    | 692           | 243           | 7.03    | 512           | 203           | 6.26    | 465           | 7.43    | 9.55                                           | 556           |

Notes:

[1] Sample volume and volumetric flow rate based on dry referenced conditions (101.3kPa, 25 ° C)

[2] Flow rate based on average of isokentic tests conducted that day

[3] Correct O<sub>2</sub> to 11% equation **a\*(20.9-11)/(20.91-b))** a = concentration @ original O<sub>2</sub> b = original O<sub>2</sub> %

## NCASI A105 - Aldehydes Sampling

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> PB, MB, AT |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #1            | <b>Test Date:</b> Apr-11-25 |
| <b>Method:</b> NCASI A105      | <b>PBar:</b> 28.91          |
|                                | <b>DGM Y:</b> 1.025         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 8:09                   |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 0.0                                      | 0.0                        | 58                    | 0.0               | 33                        | -                           |
| 5                                         | 2.0                                      | 2.32                       | 58                    | 0.0               | 33                        | 0.5                         |
| 10                                        | 2.0                                      | 5.09                       | 58                    | 0.0               | 33                        | 0.6                         |
| 15                                        | 2.0                                      | 7.54                       | 59                    | 0.0               | 33                        | 0.5                         |
| 20                                        | 2.0                                      | 10.07                      | 59                    | 0.0               | 34                        | 0.5                         |
| 25                                        | 2.0                                      | 12.60                      | 59                    | 0.0               | 34                        | 0.5                         |
| 30                                        | 2.0                                      | 15.05                      | 59                    | 0.0               | 33                        | 0.5                         |
| 35                                        | 2.0                                      | 17.60                      | 60                    | 0.0               | 34                        | 0.5                         |
| 40                                        | 2.0                                      | 20.14                      | 60                    | 0.0               | 34                        | 0.5                         |
| 45                                        | 2.0                                      | 22.59                      | 60                    | 0.0               | 35                        | 0.5                         |
| 50                                        | 2.0                                      | 25.14                      | 60                    | 0.0               | 35                        | 0.5                         |
| 55                                        | 2.0                                      | 27.64                      | 60                    | 0.0               | 35                        | 0.5                         |
| 60                                        | 2.0                                      | 30.15                      | 61                    | 0.0               | 35                        | 0.5                         |
| <b>END TIME:</b> 9:09                     |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 1.8                                      |                            | 59                    |                   | 34                        | 0.50                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.030                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.031</b>               |                       |                   |                           |                             |

## NCASI A105 - Aldehydes Sampling

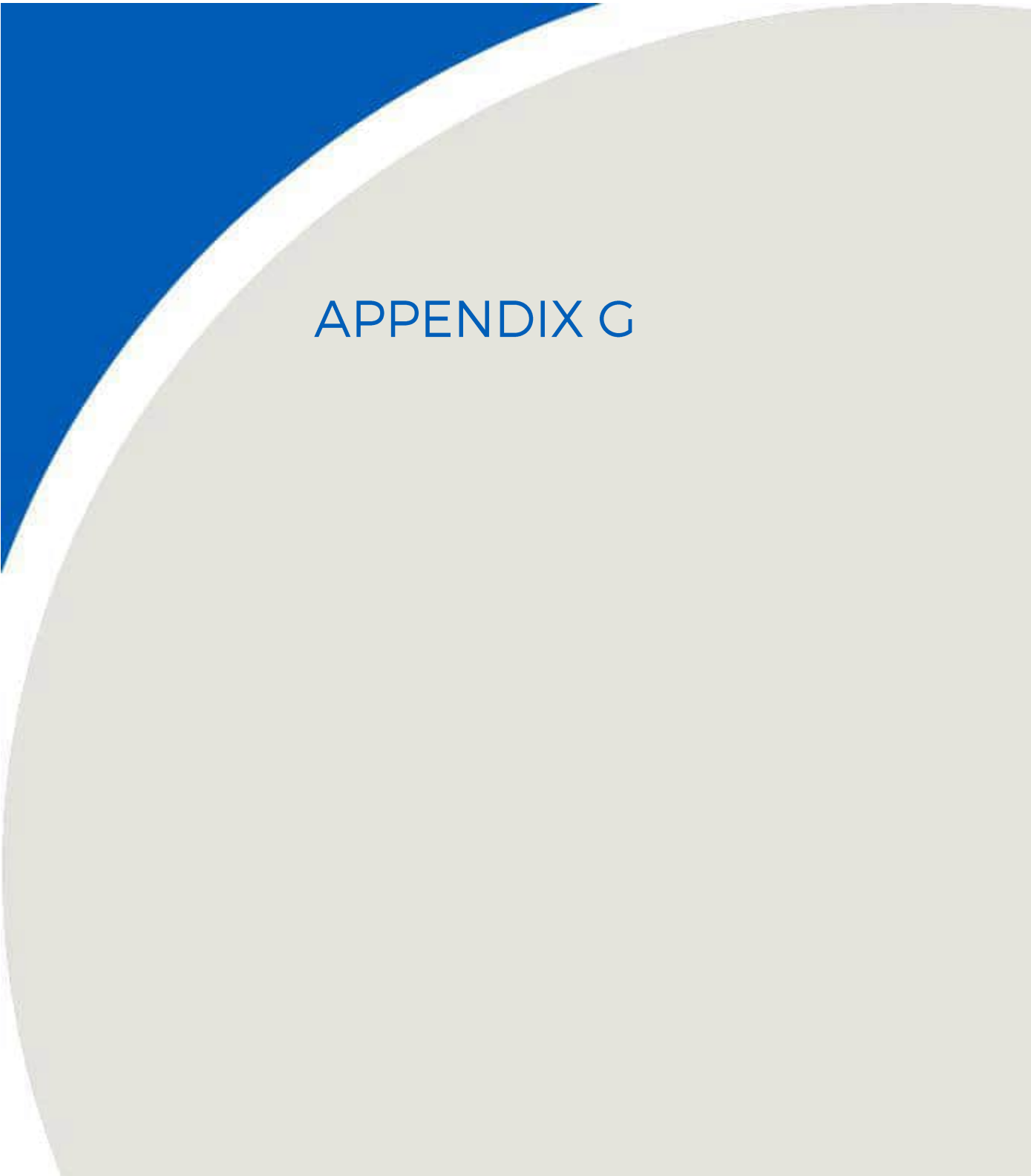
|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> PB, MB, AT |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #2            | <b>Test Date:</b> Apr-11-25 |
| <b>Method:</b> NCASI A105      | <b>PBar:</b> 28.91          |
|                                | <b>DGM Y:</b> 1.025         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 9:36                   |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 0.0                                      | 0.00                       | 58                    | 0.0               | 33                        | -                           |
| 5                                         | 2.0                                      | 2.80                       | 58                    | 0.0               | 33                        | 0.6                         |
| 10                                        | 2.0                                      | 5.58                       | 58                    | 0.0               | 33                        | 0.6                         |
| 15                                        | 2.0                                      | 8.40                       | 59                    | 0.0               | 33                        | 0.6                         |
| 20                                        | 2.0                                      | 11.21                      | 59                    | 0.0               | 34                        | 0.6                         |
| 25                                        | 2.0                                      | 13.99                      | 59                    | 0.0               | 34                        | 0.6                         |
| 30                                        | 2.0                                      | 16.75                      | 59                    | 0.0               | 33                        | 0.6                         |
| 35                                        | 2.0                                      | 19.59                      | 60                    | 0.0               | 33                        | 0.6                         |
| 40                                        | 2.0                                      | 22.38                      | 60                    | 0.0               | 33                        | 0.6                         |
| 45                                        | 2.0                                      | 25.22                      | 60                    | 0.0               | 33                        | 0.6                         |
| 50                                        | 2.0                                      | 27.98                      | 60                    | 0.0               | 34                        | 0.6                         |
| 55                                        | 2.0                                      | 30.69                      | 60                    | 0.0               | 34                        | 0.5                         |
| 60                                        | 2.0                                      | 33.58                      | 61                    | 0.0               | 34                        | 0.6                         |
| <b>END TIME:</b> 10:36                    |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 1.8                                      |                            | 59                    |                   | 33                        | 0.56                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.034                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.035</b>               |                       |                   |                           |                             |

## NCASI A105 - Aldehydes Sampling

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Facility:</b> SMC St. Marys | <b>Operator:</b> PB, MB, AT |
| <b>City:</b> St. Marys         | <b>Entered by:</b> MB       |
| <b>Source:</b> Kiln Stack      | <b>Checked by:</b> AT       |
| <b>Run:</b> Test #3            | <b>Test Date:</b> Apr-11-25 |
| <b>Method:</b> NCASI A105      | <b>PBar:</b> 28.91          |
|                                | <b>DGM Y:</b> 1.025         |

| Time<br>(min)                             | Orifice<br>Press.<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L)     | Meter<br>Temp<br>(°F) | Vacuum<br>(in Hg) | Condenser<br>Temp<br>(°F) | Sampling<br>Rate<br>(L/min) |
|-------------------------------------------|------------------------------------------|----------------------------|-----------------------|-------------------|---------------------------|-----------------------------|
| <b>START TIME:</b> 10:55                  |                                          | Pre-test Leak Check: Good  |                       |                   |                           |                             |
| 0                                         | 0.0                                      | 0.024                      | 63                    | 0.0               | 34                        | -                           |
| 5                                         | 2.0                                      | 2.71                       | 63                    | 0.0               | 34                        | 0.5                         |
| 10                                        | 2.0                                      | 5.33                       | 63                    | 0.0               | 34                        | 0.5                         |
| 15                                        | 2.0                                      | 7.99                       | 63                    | 0.0               | 35                        | 0.5                         |
| 20                                        | 2.0                                      | 10.57                      | 63                    | 0.0               | 34                        | 0.5                         |
| 25                                        | 2.0                                      | 13.27                      | 64                    | 0.0               | 34                        | 0.5                         |
| 30                                        | 2.0                                      | 15.93                      | 64                    | 0.0               | 34                        | 0.5                         |
| 35                                        | 2.0                                      | 18.56                      | 63                    | 0.0               | 34                        | 0.5                         |
| 40                                        | 2.0                                      | 21.25                      | 65                    | 0.0               | 35                        | 0.5                         |
| 45                                        | 2.0                                      | 23.88                      | 65                    | 0.0               | 35                        | 0.5                         |
| 50                                        | 2.0                                      | 26.52                      | 65                    | 0.0               | 34                        | 0.5                         |
| 55                                        | 2.0                                      | 29.17                      | 65                    | 0.0               | 34                        | 0.5                         |
| 60                                        | 2.0                                      | 31.82                      | 65                    | 0.0               | 34                        | 0.5                         |
| <b>END TIME:</b> 11:25                    |                                          | Post-test Leak Check: Good |                       |                   |                           |                             |
| Average                                   | 1.8                                      |                            | 64                    |                   | 34                        | 0.53                        |
| Total Volume Actual (m <sup>3</sup> )     |                                          | 0.032                      |                       |                   |                           |                             |
| <b>Total Volume Ref. (Rm<sup>3</sup>)</b> |                                          | <b>0.032</b>               |                       |                   |                           |                             |

The background of the page features a large, light grey circle on the right side. On the left, there is a blue triangular shape that is partially cut off by the edge of the page. The text 'APPENDIX G' is centered within the grey circle.

## APPENDIX G

**Summary of CEM Data**  
**SMC St. Marys**  
**Kiln Stack**

| Overall Average Concentrations |                     |          |
|--------------------------------|---------------------|----------|
| O <sub>2</sub> (%)             | CO <sub>2</sub> (%) | CO (ppm) |
| 13.2                           | 12.5                | 1,436    |

| Test ID: 1          |                    | Date: 9-Apr-25      |          |
|---------------------|--------------------|---------------------|----------|
| Time                | O <sub>2</sub> (%) | CO <sub>2</sub> (%) | CO (ppm) |
| 9:15 AM to 11:55 AM | 13.4               | 12.3                | 1,107    |

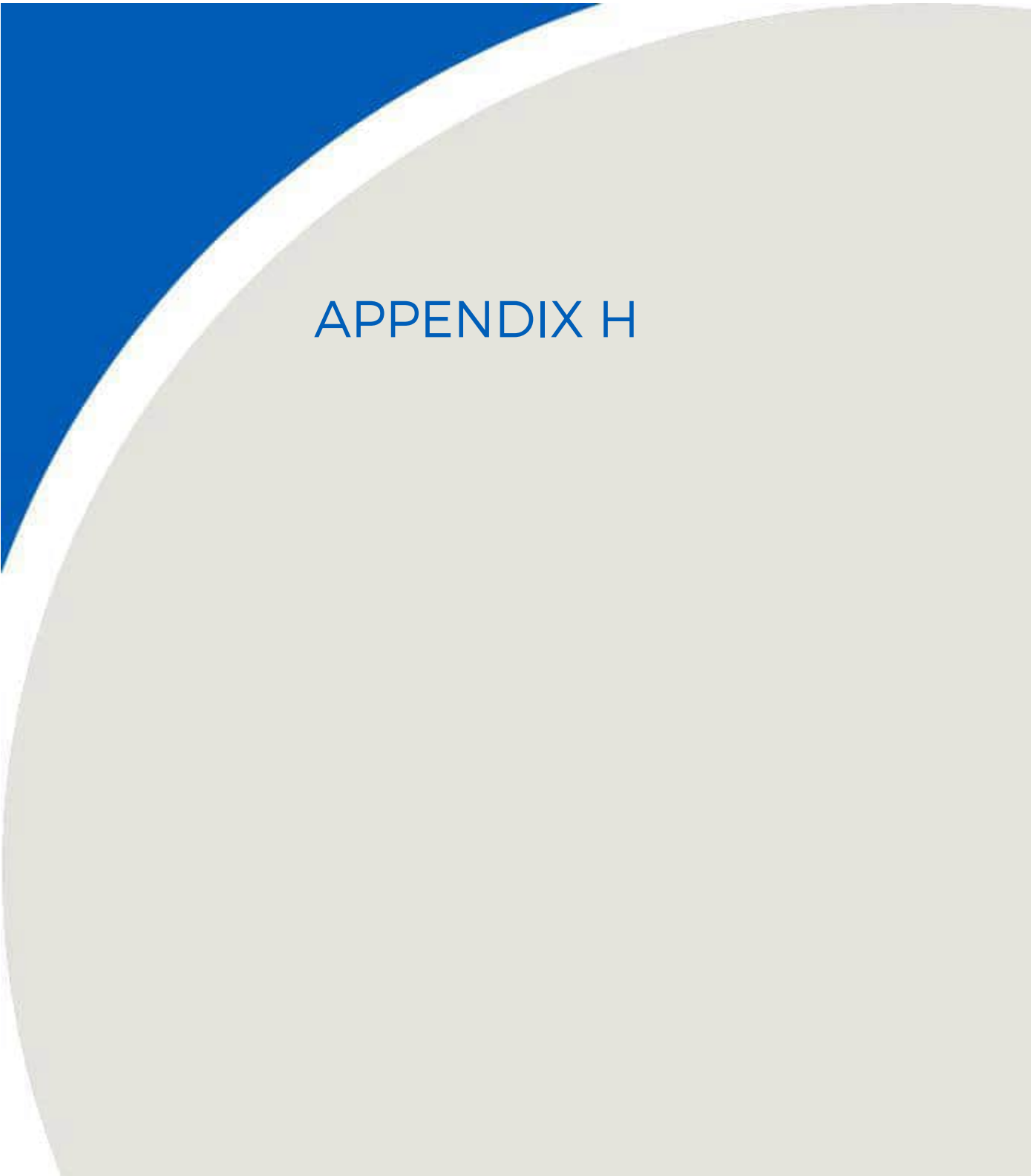
| Test ID: 2          |                    | Date: 9-Apr-25      |          |
|---------------------|--------------------|---------------------|----------|
| Time                | O <sub>2</sub> (%) | CO <sub>2</sub> (%) | CO (ppm) |
| 11:55 AM to 2:48 PM | 12.9               | 12.9                | 1,652    |

| Test ID: 3         |                    | Date: 11-Apr-25     |          |
|--------------------|--------------------|---------------------|----------|
| Time               | O <sub>2</sub> (%) | CO <sub>2</sub> (%) | CO (ppm) |
| 8:15 AM to 9:58 AM | 13.3               | 12.3                | 1,548    |







A decorative background graphic featuring a large, light gray circular shape on the right side of the page. On the left side, there is a blue triangular shape pointing towards the center, separated from the gray circle by a thin white curved line.

## APPENDIX H

# Volatile Organic Compound Sampling

## Kiln Stack

| Units                                                      | Test #1            |                             |               | Test #2  |                             |               | Test #3  |                             |               | Average              |                                                      |               |
|------------------------------------------------------------|--------------------|-----------------------------|---------------|----------|-----------------------------|---------------|----------|-----------------------------|---------------|----------------------|------------------------------------------------------|---------------|
|                                                            | Sample ID :        | Pair ID = A080537 + A080127 |               |          | Pair ID = A087911 + A066832 |               |          | Pair ID = A081209 + A081162 |               |                      | -                                                    | -             |
| Sampling Date :                                            | -                  | Apr 8, 25                   |               |          | Apr 8, 25                   |               |          | Apr 9, 25                   |               |                      | -                                                    | -             |
| Sampling Start Time :                                      | -                  | 11:27 AM                    |               |          | 1:09 PM                     |               |          | 11:39 AM                    |               |                      | -                                                    | -             |
| Sampling End Time :                                        | -                  | 12:27 PM                    |               |          | 2:09 PM                     |               |          | 12:39 PM                    |               |                      | -                                                    | -             |
| Sample Volume <sup>[1]</sup> :                             | Rm <sup>3</sup>    | 0.021                       |               |          | 0.021                       |               |          | 0.021                       |               |                      | 0.021                                                | 0.021         |
| Stack Flow Rate <sup>[1], [2]</sup>                        | Rm <sup>3</sup> /s | 77.0                        |               |          | 72.8                        |               |          | 74.3                        |               |                      | 74.7                                                 | 74.7          |
| Compound <sup>[4]</sup>                                    | Lab Data           | Concentration               | Emission Rate | Lab Data | Concentration               | Emission Rate | Lab Data | Concentration               | Emission Rate | Concentration        | Conc. corrected to 11% O <sub>2</sub> <sup>[3]</sup> | Emission Rate |
|                                                            | (µg)               | (µg/m <sup>3</sup> )        | (mg/s)        | (µg)     | (µg/m <sup>3</sup> )        | (mg/s)        | (µg)     | (µg/m <sup>3</sup> )        | (mg/s)        | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> )                                 | (mg/s)        |
| Acetone <sup>[5] Test #2, [6] Test #3</sup>                | < 0.250            | < 11.66                     | < 0.898       | 0.220    | 10.4                        | 0.757         | 45.0     | 2169                        | 161           | < 730                | < 939                                                | < 54.3        |
| Benzene <sup>[6] Test #3</sup>                             | 0.0110             | 0.513                       | 0.0395        | < 0.010  | < 0.5                       | < 0.03        | 12.0     | 578                         | 43.0          | < 193                | < 248                                                | < 14.4        |
| Bromodichloromethane                                       | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Bromoform                                                  | < 0.025            | < 1.17                      | < 0.090       | < 0.025  | < 1.2                       | < 0.09        | < 0.03   | < 1.2                       | < 0.09        | < 1.18               | < 1.52                                               | < 0.0884      |
| Bromomethane                                               | < 0.050            | < 2.33                      | < 0.180       | < 0.050  | < 2.4                       | < 0.17        | 0.370    | 17.8                        | 1.33          | < 7.51               | < 9.65                                               | < 0.559       |
| Butanone, 2 - <sup>[6] Test #3</sup>                       | < 0.100            | < 4.66                      | < 0.359       | < 0.100  | < 4.7                       | < 0.34        | 16.0     | 771                         | 57.3          | < 260                | < 334                                                | < 19.3        |
| Carbon Tetrachloride                                       | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Chloroform                                                 | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Cumene (Isopropylbenzene)                                  | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | 0.190    | 9.16                        | 0.681         | < 3.37               | < 4.33                                               | < 0.250       |
| Dibromochloromethane (Chlorodibromomethane)                | < 0.025            | < 1.17                      | < 0.090       | < 0.025  | < 1.2                       | < 0.09        | < 0.03   | < 1.2                       | < 0.09        | < 1.18               | < 1.52                                               | < 0.0884      |
| Dichlorodifluoromethane <sup>[5] Test #1</sup>             | 0.0130             | 0.606                       | 0.0467        | < 0.025  | < 1.2                       | < 0.09        | < 0.03   | < 1.2                       | < 0.09        | < 0.998              | < 1.28                                               | < 0.0741      |
| Dichloroethane, 1,2 -                                      | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Dichloroethene, 1,1 -                                      | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Dichloroethene, Trans - 1,2                                | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Dichloropropane, 1,2 -                                     | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Ethylbenzene <sup>[6] Test #3</sup>                        | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | 3.70     | 178                         | 13.3          | < 59.7               | < 76.8                                               | < 4.44        |
| Ethylene Dibromide (1,2-Dibromoethane)                     | < 0.025            | < 1.17                      | < 0.090       | < 0.025  | < 1.2                       | < 0.09        | < 0.03   | < 1.2                       | < 0.09        | < 1.18               | < 1.52                                               | < 0.0884      |
| Mesitylene (1,3,5-Trimethylbenzene) <sup>[7] Test #3</sup> | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | 0.820    | 39.5                        | 2.94          | < 13.5               | < 17.3                                               | < 1.00        |
| Methylene Chloride <sup>[6]</sup>                          | 18.000             | 839                         | 64.6          | 8.20     | 388                         | 28.2          | 3.10     | 149                         | 11.1          | 459                  | 590                                                  | 34.6          |
| Styrene <sup>[6] Test #3</sup>                             | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | 4.90     | 236                         | 17.6          | < 79.0               | < 102                                                | < 5.88        |
| Tetrachloroethene                                          | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Toluene <sup>[5] Test #1, [6] Test #3</sup>                | 0.0180             | 0.839                       | 0.0646        | 0.0880   | 4.16                        | 0.303         | 8.30     | 400                         | 29.7          | 135                  | 174                                                  | 10.0          |
| Trichloroethane, 1,1,1 -                                   | < 0.025            | < 1.17                      | < 0.090       | < 0.025  | < 1.2                       | < 0.09        | < 0.03   | < 1.2                       | < 0.09        | < 1.18               | < 1.52                                               | < 0.0884      |
| Trichloroethene                                            | < 0.010            | < 0.47                      | < 0.036       | < 0.010  | < 0.5                       | < 0.03        | < 0.01   | < 0.5                       | < 0.04        | < 0.474              | < 0.609                                              | < 0.0354      |
| Trichlorofluoromethane <sup>[5] Test #1, Test #2</sup>     | 0.0100             | 0.466                       | 0.0359        | 0.00570  | 0.270                       | 0.0196        | < 0.05   | < 2.4                       | < 0.18        | < 1.05               | < 1.35                                               | < 0.0782      |
| Vinyl Chloride                                             | < 0.025            | < 1.17                      | < 0.090       | < 0.025  | < 1.2                       | < 0.09        | 0.320    | 15.4                        | 1.15          | < 5.92               | < 7.62                                               | < 0.441       |
| Xylenes, m-, p- and o <sup>[6] Test #3</sup>               | < 0.030            | < 1.40                      | < 0.108       | < 0.030  | < 1.4                       | < 0.10        | 8.00     | 386                         | 28.7          | < 129                | < 166                                                | < 9.62        |

### Notes:

Analytical laboratory results - Butadiene, 1,3 - and Trichlorotrifluoroethane were not reported.

' < ' indicates that the laboratory results were less than the Reportable Detection Limit (RDL). This RDL was used to calculate the concentration and emission rate.

[1] Sample volume, volumetric flow rate, and concentration based on dry referenced conditions (101.3 kPa, 25 °C, and Actual Oxygen)

[2] Average of the measured volumetric flow rates from isokinetic testing

[3] Correct O<sub>2</sub> to 11% equation **a\*(20.9-11)/(20.9-b))** a=concentration @ original O<sub>2</sub> b=original O<sub>2</sub> %

### Analytical Notes:

[4] Butadiene, 1,3 - and Trichlorotrifluoroethane were not reported by the analytical laboratory.

[5] The result is less than the laboratory reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

[6] The result exceeded the laboratory calibration range.

[7] The laboratory internal standard response or retention time was outside of acceptable limits.

# Volatile Organic Compound Sampling

|           |                   |             |               |
|-----------|-------------------|-------------|---------------|
| Facility: | SMC St. Marys     | Operator:   | AT            |
| City:     | St. Marys         | Entered by: | MB            |
| Source:   | Kiln Stack        | Checked by: | AT            |
| Run:      | Test #1           | Test Date:  | April 8, 2025 |
| Method:   | USEPA Method 0030 | PBar:       | 28.72         |
|           |                   | DGM Y:      | 1.025         |

| Time                                      | Orifice Press.      | Meter Volume              | Meter Temp | Vacuum  | Condenser Temp | Sampling Rate |
|-------------------------------------------|---------------------|---------------------------|------------|---------|----------------|---------------|
| (min)                                     | ("H <sub>2</sub> O) | (L)                       | (°F)       | (in Hg) | (°F)           | (L/min)       |
| Pair ID = A080537 + A080127               |                     | Pre-test Leak Check: Good |            |         |                |               |
| START TIME: 11:27                         |                     |                           |            |         |                |               |
| 0                                         | 0.6                 | 0.136                     | 35         | 0.0     | 37             | 0.33          |
| 5                                         | 0.6                 | 1.8                       | 35         | 0.0     | 36             | 0.34          |
| 10                                        | 0.6                 | 3.5                       | 35         | 0.0     | 36             | 0.32          |
| 15                                        | 0.6                 | 5.1                       | 35         | 0.0     | 36             | 0.34          |
| 20                                        | 0.6                 | 6.8                       | 35         | 0.0     | 36             | 0.34          |
| 25                                        | 0.6                 | 8.5                       | 35         | 0.0     | 36             | 0.34          |
| 30                                        | 0.6                 | 10.2                      | 34         | 0.0     | 35             | 0.32          |
| 35                                        | 0.6                 | 11.8                      | 34         | 0.0     | 35             | 0.34          |
| 40                                        | 0.6                 | 13.5                      | 34         | 0.0     | 36             | 0.34          |
| 45                                        | 0.6                 | 15.2                      | 34         | 0.0     | 36             | 0.32          |
| 50                                        | 0.6                 | 16.8                      | 34         | 0.0     | 36             | 0.34          |
| 55                                        | 0.6                 | 18.5                      | 34         | 0.0     | 36             | 0.33          |
| 60                                        | 0.6                 | 20.172                    | 34         | 0.0     | 36             |               |
| END TIME: 12:27                           |                     |                           |            |         |                |               |
| Post-test Leak Check: Good                |                     |                           |            |         |                |               |
| Average                                   | 0.6                 | -                         | 34.5       | 0.0     | 35.9           | 0.33          |
| Total Volume Actual (m <sup>3</sup> )     |                     | 0.020                     |            |         |                |               |
| Total Volume Reference (Rm <sup>3</sup> ) |                     | 0.021                     |            |         |                |               |

# Volatile Organic Compound Sampling

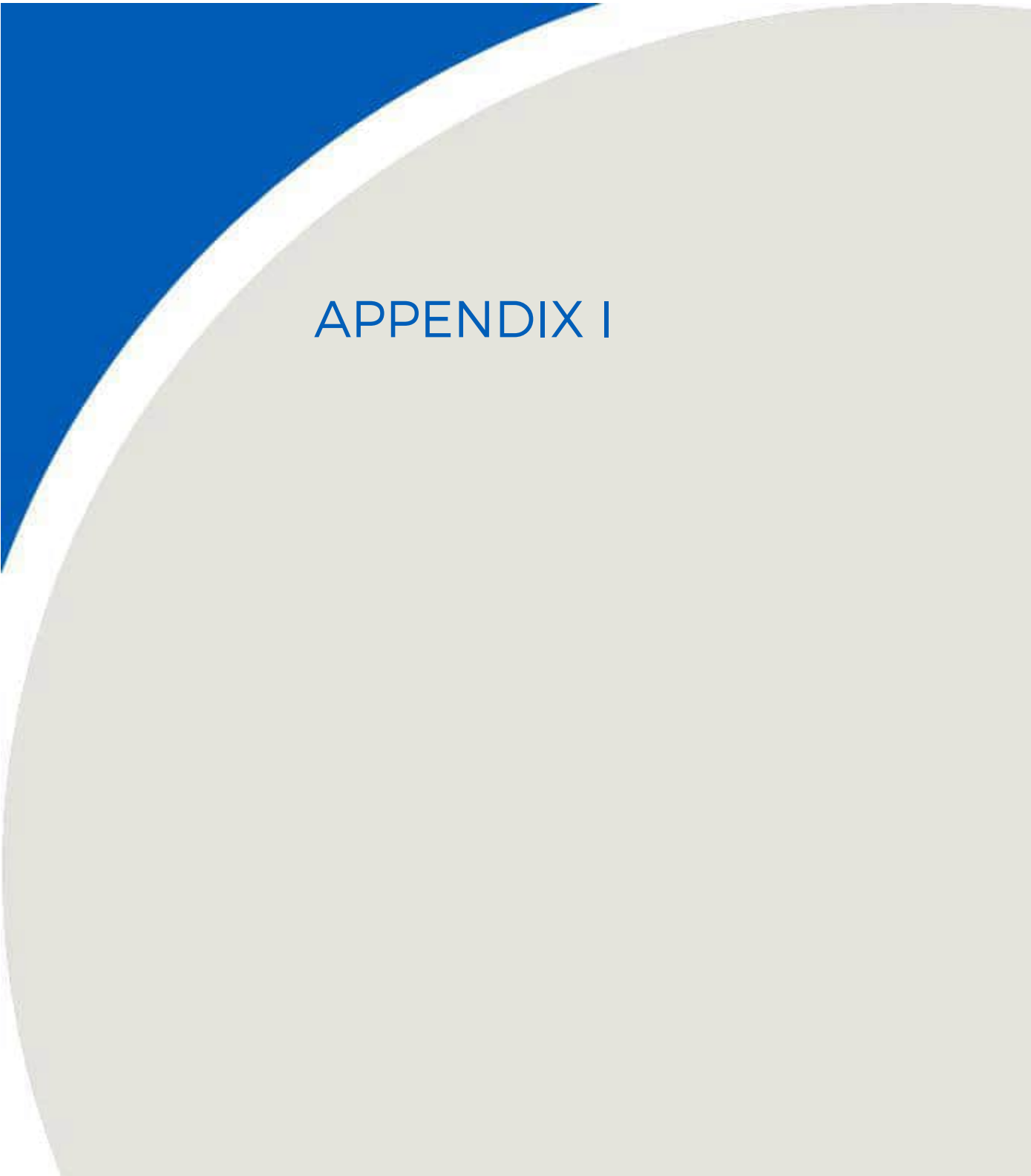
|           |                   |             |               |
|-----------|-------------------|-------------|---------------|
| Facility: | SMC St. Marys     | Operator:   | AT            |
| City:     | St. Marys         | Entered by: | MB            |
| Source:   | Kiln Stack        | Checked by: | AT            |
| Run:      | Test #2           | Test Date:  | April 8, 2025 |
| Method:   | USEPA Method 0030 | PBar:       | 28.72         |
|           |                   | DGM Y:      | 1.025         |

| Time                                      | Orifice Press.      | Meter Volume              | Meter Temp | Vacuum  | Condensor Temp | Sampling Rate |
|-------------------------------------------|---------------------|---------------------------|------------|---------|----------------|---------------|
| (min)                                     | ("H <sub>2</sub> O) | (L)                       | (°F)       | (in Hg) | (°F)           | (L/min)       |
| Pair ID = A087911 + A066832               |                     | Pre-test Leak Check: Good |            |         |                |               |
| START TIME: 13:09                         |                     |                           |            |         |                |               |
| 0                                         | 0.6                 | 0.127                     | 35         | 0.0     | 38             | 0.33          |
| 5                                         | 0.6                 | 1.8                       | 35         | 0.0     | 38             | 0.32          |
| 10                                        | 0.6                 | 3.4                       | 35         | 0.0     | 38             | 0.34          |
| 15                                        | 0.6                 | 5.1                       | 35         | 0.0     | 38             | 0.32          |
| 20                                        | 0.6                 | 6.7                       | 35         | 0.0     | 38             | 0.34          |
| 25                                        | 0.6                 | 8.4                       | 36         | 0.0     | 37             | 0.32          |
| 30                                        | 0.6                 | 10.0                      | 36         | 0.0     | 37             | 0.34          |
| 35                                        | 0.6                 | 11.7                      | 36         | 0.0     | 37             | 0.32          |
| 40                                        | 0.6                 | 13.3                      | 36         | 0.0     | 37             | 0.34          |
| 45                                        | 0.6                 | 15.0                      | 36         | 0.0     | 37             | 0.32          |
| 50                                        | 0.6                 | 16.6                      | 36         | 0.0     | 37             | 0.34          |
| 55                                        | 0.6                 | 18.3                      | 36         | 0.0     | 37             | 0.33          |
| 60                                        | 0.6                 | 19.936                    | 36         | 0.0     | 38             |               |
| END TIME: 14:09                           |                     |                           |            |         |                |               |
| Post-test Leak Check: Good                |                     |                           |            |         |                |               |
| Average                                   | 0.6                 | -                         | 35.6       | 0.0     | 37.4           | 0.33          |
| Total Volume Actual (m <sup>3</sup> )     |                     | 0.020                     |            |         |                |               |
| Total Volume Reference (Rm <sup>3</sup> ) |                     | 0.021                     |            |         |                |               |

# Volatile Organic Compound Sampling

|           |                   |             |               |
|-----------|-------------------|-------------|---------------|
| Facility: | SMC St. Marys     | Operator:   | AT            |
| City:     | St. Marys         | Entered by: | MB            |
| Source:   | Kiln Stack        | Checked by: | AT            |
| Run:      | Test #3           | Test Date:  | April 9, 2025 |
| Method:   | USEPA Method 0030 | PBar:       | 29.00         |
|           |                   | DGM Y:      | 1.025         |

| Time                                      | Orifice Press.      | Meter Volume              | Meter Temp | Vacuum  | Condensor Temp | Sampling Rate |
|-------------------------------------------|---------------------|---------------------------|------------|---------|----------------|---------------|
| (min)                                     | ("H <sub>2</sub> O) | (L)                       | (°F)       | (in Hg) | (°F)           | (L/min)       |
| Pair ID = A081209 + A081162               |                     | Pre-test Leak Check: Good |            |         |                |               |
| START TIME: 11:39                         |                     |                           |            |         |                |               |
| 0                                         | 0.6                 | 0.112                     | 47         | 0.0     | 33             | 0.34          |
| 5                                         | 0.6                 | 1.8                       | 48         | 0.0     | 33             | 0.32          |
| 10                                        | 0.6                 | 3.4                       | 49         | 0.0     | 33             | 0.34          |
| 15                                        | 0.6                 | 5.1                       | 50         | 0.0     | 34             | 0.32          |
| 20                                        | 0.6                 | 6.7                       | 51         | 0.0     | 34             | 0.34          |
| 25                                        | 0.6                 | 8.4                       | 51         | 0.0     | 34             | 0.34          |
| 30                                        | 0.6                 | 10.1                      | 52         | 0.0     | 34             | 0.32          |
| 35                                        | 0.6                 | 11.7                      | 53         | 0.0     | 35             | 0.34          |
| 40                                        | 0.6                 | 13.4                      | 54         | 0.0     | 35             | 0.32          |
| 45                                        | 0.6                 | 15.0                      | 55         | 0.0     | 35             | 0.34          |
| 50                                        | 0.6                 | 16.7                      | 56         | 0.0     | 35             | 0.34          |
| 55                                        | 0.6                 | 18.4                      | 57         | 0.0     | 35             | 0.32          |
| 60                                        | 0.6                 | 20.009                    | 57         | 0.0     | 35             |               |
| END TIME: 12:39                           |                     |                           |            |         |                |               |
| Post-test Leak Check: Good                |                     |                           |            |         |                |               |
| Average                                   | 0.6                 | -                         | 52.3       | 0.0     | 34.2           | 0.33          |
| Total Volume Actual (m <sup>3</sup> )     |                     | 0.020                     |            |         |                |               |
| Total Volume Reference (Rm <sup>3</sup> ) |                     | 0.021                     |            |         |                |               |

A large decorative graphic on the left side of the page, featuring a blue triangle at the top left and a large, light gray curved shape that dominates the lower half of the page.

# APPENDIX I

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**CERTIFICATE OF ANALYSIS**

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|                                |                                                        |                                |                                                              |
|--------------------------------|--------------------------------------------------------|--------------------------------|--------------------------------------------------------------|
| <b>Work Order</b>              | : <b>BU2500945</b>                                     |                                |                                                              |
| <b>Client</b>                  | : <b>RWDI Air Inc.</b>                                 | <b>Laboratory</b>              | : ALS Environmental - Burlington                             |
| <b>Contact</b>                 | : Oluwatobi Odumoye                                    | <b>Account Manager</b>         | : Robert Chin                                                |
| <b>Address</b>                 | : 600 Southgate Drive<br>Guelph Ontario Canada N1G 4P6 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington ON Canada L7L 0E6 |
| <b>Telephone</b>               | : 519 823 1311                                         | <b>Telephone</b>               | : +1 905 331 3111                                            |
| <b>Project</b>                 | : 2509873 SMC St. Mary's                               | <b>Date Samples Received</b>   | : 15-Apr-2025 11:35                                          |
| <b>PO</b>                      | : 2509873                                              | <b>Date Analysis Commenced</b> | : 24-Apr-2025                                                |
| <b>C-O-C number</b>            | : ----                                                 | <b>Issue Date</b>              | : 07-May-2025 16:52                                          |
| <b>Sampler</b>                 | : Adam Tran                                            |                                |                                                              |
| <b>Site</b>                    | : ----                                                 |                                |                                                              |
| <b>Quote number</b>            | : SMC St Marys                                         |                                |                                                              |
| <b>No. of samples received</b> | : 7                                                    |                                |                                                              |
| <b>No. of samples analysed</b> | : 7                                                    |                                |                                                              |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

---

**Signatories**

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>      | <i>Laboratory Department</i>    |
|--------------------|----------------------|---------------------------------|
| Milithza Silva     | Manager - Inorganics | Inorganics, Burlington, Ontario |
| Milithza Silva     | Manager - Inorganics | Metals, Burlington, Ontario     |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit      | Description           |
|-----------|-----------------------|
| g         | grams                 |
| mg        | milligrams            |
| total µg  | total micrograms      |
| µg/L      | micrograms per litre  |
| µg/sample | micrograms per sample |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Workorder Comments

Mn recovery in the LCS is outside ALS DQOs probably due to contamination but Matris Spike results were within acceptance criteria. No impact to data quality is suspected. SA 06-May-25.



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

| Sub-Matrix: Impinger<br>(Matrix: Air)        |            |            |      |          | Client sample ID  | M5/29 CSI Test 1  | M5/29 CSI Test 2  | M5/29 CSI Test 3  | M5/29 ECA Test 1  | M5/29 ECA Test 2 |
|----------------------------------------------|------------|------------|------|----------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Client sampling date / time                  |            |            |      |          | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |                  |
| Analyte                                      | CAS Number | Method/Lab | LOR  | Unit     | BU2500945-001     | BU2500945-002     | BU2500945-003     | BU2500945-004     | BU2500945-005     |                  |
|                                              |            |            |      |          | Result            | Result            | Result            | Result            | Result            |                  |
| Particulates                                 |            |            |      |          |                   |                   |                   |                   |                   |                  |
| mass, acetone [FRONT]                        | ----       | E898A/BU   | 0.40 | g        | 129               | 60.3              | 64.9              | 65.1              | 36.3              |                  |
| particulate matter, acetone impinger [FRONT] | ----       | E897A/BU   | 0.4  | mg       | 121               | 111               | 78.5              | 83.3              | 59.1              |                  |
| Particulate matter, filter                   | ----       | E890/BU    | 0.6  | mg       | 125               | 132               | 102               | 25.5              | 83.5              |                  |
| Metals                                       |            |            |      |          |                   |                   |                   |                   |                   |                  |
| Arsenic                                      | 7440-38-2  | EC457/BU   | 1.1  | total µg | <1.1              | <1.1              | <1.1              | 1.8               | 1.3               |                  |
| Barium                                       | 7440-39-3  | EC457/BU   | 5.6  | total µg | 29.0              | 25.7              | 19.5              | 43.0              | 34.7              |                  |
| Beryllium                                    | 7440-41-7  | EC457/BU   | 0.22 | total µg | <0.22             | <0.22             | <0.22             | <0.22             | <0.22             |                  |
| Cadmium                                      | 7440-43-9  | EC457/BU   | 0.11 | total µg | 1.37              | 1.06              | 0.92              | 1.24              | 1.87              |                  |
| Chromium                                     | 7440-47-3  | EC457/BU   | 1.1  | total µg | 59.1              | 23.5              | 16.9              | 660               | 314               |                  |
| Cobalt                                       | 7440-48-4  | EC457/BU   | 0.22 | total µg | 1.28              | 1.20              | 0.75              | 2.04              | 1.55              |                  |
| Copper                                       | 7440-50-8  | EC457/BU   | 1.1  | total µg | 16.1              | 7.4               | 10.4              | 30.2              | 24.9              |                  |
| Lead                                         | 7439-92-1  | EC457/BU   | 0.56 | total µg | 46.1              | 46.1              | 41.4              | 50.1              | 67.9              |                  |
| Manganese                                    | 7439-96-5  | EC457/BU   | 0.56 | total µg | 123               | 115               | 79.8              | 152               | 96.9              |                  |
| Molybdenum                                   | 7439-98-7  | EC457/BU   | 0.22 | total µg | 14.7              | 12.4              | 12.5              | 38.6              | 25.8              |                  |
| Nickel                                       | 7440-02-0  | EC457/BU   | 0.22 | total µg | 19.2              | 10.3              | 9.13              | 78.3              | 45.5              |                  |
| Selenium                                     | 7782-49-2  | EC457/BU   | 2.2  | total µg | <2.2              | <2.2              | <2.2              | <2.2              | <2.2              |                  |
| Silver                                       | 7440-22-4  | EC457/BU   | 0.22 | total µg | 0.76              | 0.50              | 0.49              | 1.96              | 1.63              |                  |
| Thallium                                     | 7440-28-0  | EC457/BU   | 0.22 | total µg | 17.6              | 19.1              | 16.1              | 11.2              | 9.86              |                  |
| Vanadium                                     | 7440-62-2  | EC457/BU   | 1.1  | total µg | 39.6              | 35.6              | 26.0              | 42.9              | 42.2              |                  |
| Zinc                                         | 7440-66-6  | EC457/BU   | 6.7  | total µg | 151               | 136               | 115               | 81.3              | 110               |                  |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                           |            |            |      |           | Client sample ID            | M5/29 CSI Test 1  | M5/29 CSI Test 2  | M5/29 CSI Test 3  | M5/29 ECA Test 1  | M5/29 ECA Test 2  |
|-------------------------------------------|------------|------------|------|-----------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                           |            |            |      |           | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |
| Analyte                                   | CAS Number | Method/Lab | LOR  | Unit      | BU2500945-001               | BU2500945-002     | BU2500945-003     | BU2500945-004     | BU2500945-005     |                   |
|                                           |            |            |      |           | Result                      | Result            | Result            | Result            | Result            |                   |
| Method 29 Metals: Fraction 1A (HF)        |            |            |      |           |                             |                   |                   |                   |                   |                   |
| Arsenic                                   | 7440-38-2  | E457A/BU   | 1.0  | µg/sample | 1.1                         | <1.0              | <1.0              | 1.8               | 1.3               |                   |
| Barium                                    | 7440-39-3  | E457A/BU   | 5.0  | µg/sample | 29.0                        | 25.7              | 19.5              | 43.0              | 34.7              |                   |
| Beryllium                                 | 7440-41-7  | E457A/BU   | 0.20 | µg/sample | <0.20                       | <0.20             | <0.20             | <0.20             | <0.20             |                   |
| Cadmium                                   | 7440-43-9  | E457A/BU   | 0.10 | µg/sample | 1.28                        | 1.06              | 0.92              | 0.83              | 1.77              |                   |
| Chromium                                  | 7440-47-3  | E457A/BU   | 1.0  | µg/sample | 58.4                        | 22.8              | 16.9              | 653               | 312               |                   |
| Cobalt                                    | 7440-48-4  | E457A/BU   | 0.20 | µg/sample | 1.17                        | 0.91              | 0.75              | 1.75              | 1.34              |                   |
| Copper                                    | 7440-50-8  | E457A/BU   | 1.0  | µg/sample | 7.8                         | 5.3               | 8.3               | 17.9              | 12.9              |                   |
| Lead                                      | 7439-92-1  | E457A/BU   | 0.50 | µg/sample | 41.6                        | 44.6              | 40.7              | 32.3              | 63.2              |                   |
| Manganese                                 | 7439-96-5  | E457A/BU   | 0.50 | µg/sample | 110                         | 106               | 76.1              | 68.7              | 86.6              |                   |
| Molybdenum                                | 7439-98-7  | E457A/BU   | 0.20 | µg/sample | 14.7                        | 12.4              | 12.5              | 38.2              | 25.7              |                   |
| Nickel                                    | 7440-02-0  | E457A/BU   | 0.20 | µg/sample | 18.1                        | 9.39              | 8.14              | 75.9              | 44.0              |                   |
| Selenium                                  | 7782-49-2  | E457A/BU   | 2.0  | µg/sample | <2.0                        | <2.0              | <2.0              | <2.0              | <2.0              |                   |
| Silver                                    | 7440-22-4  | E457A/BU   | 0.20 | µg/sample | 0.76                        | 0.50              | 0.49              | 1.83              | 1.63              |                   |
| Thallium                                  | 7440-28-0  | E457A/BU   | 0.20 | µg/sample | 16.3                        | 18.7              | 16.0              | 10.4              | 9.51              |                   |
| Vanadium                                  | 7440-62-2  | E457A/BU   | 1.0  | µg/sample | 37.6                        | 35.1              | 26.0              | 40.4              | 40.9              |                   |
| Zinc                                      | 7440-66-6  | E457A/BU   | 6.0  | µg/sample | 139                         | 128               | 109               | 52.7              | 89.4              |                   |
| Method 29 Metals: Fraction 2A (HNO3/H2O2) |            |            |      |           |                             |                   |                   |                   |                   |                   |
| Arsenic                                   | 7440-38-2  | E457B/BU   | 0.50 | µg/sample | <0.50                       | <0.50             | <0.50             | <0.50             | <0.50             |                   |
| Barium                                    | 7440-39-3  | E457B/BU   | 2.5  | µg/sample | <2.5                        | <2.5              | <2.5              | <2.5              | <2.5              |                   |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

| Sub-Matrix: Impinger<br>(Matrix: Air)        |            |            |        |           | Client sample ID  | M5/29 CSI Test 1  | M5/29 CSI Test 2  | M5/29 CSI Test 3  | M5/29 ECA Test 1  | M5/29 ECA Test 2  |
|----------------------------------------------|------------|------------|--------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Client sampling date / time                  |            |            |        |           | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |
| Analyte                                      | CAS Number | Method/Lab | LOR    | Unit      | BU2500945-001     | BU2500945-002     | BU2500945-003     | BU2500945-004     | BU2500945-005     |                   |
|                                              |            |            |        |           | Result            | Result            | Result            | Result            | Result            |                   |
| Method 29 Metals: Fraction 2A (HNO3/H2O2)    |            |            |        |           |                   |                   |                   |                   |                   |                   |
| Beryllium                                    | 7440-41-7  | E457B/BU   | 0.10   | µg/sample | <0.10             | <0.10             | <0.10             | <0.10             | <0.10             |                   |
| Cadmium                                      | 7440-43-9  | E457B/BU   | 0.050  | µg/sample | 0.088             | <0.050            | <0.050            | 0.414             | 0.102             |                   |
| Chromium                                     | 7440-47-3  | E457B/BU   | 0.50   | µg/sample | 0.67              | 0.74              | <0.50             | 6.80              | 1.85              |                   |
| Cobalt                                       | 7440-48-4  | E457B/BU   | 0.10   | µg/sample | 0.11              | 0.29              | <0.10             | 0.29              | 0.21              |                   |
| Copper                                       | 7440-50-8  | E457B/BU   | 0.50   | µg/sample | 8.33              | 2.07              | 2.08              | 12.3              | 12.0              |                   |
| Lead                                         | 7439-92-1  | E457B/BU   | 0.25   | µg/sample | 4.52              | 1.52              | 0.73              | 17.8              | 4.73              |                   |
| Manganese                                    | 7439-96-5  | E457B/BU   | 0.25   | µg/sample | 12.8              | 8.62              | 3.72              | 83.3              | 10.3              |                   |
| Molybdenum                                   | 7439-98-7  | E457B/BU   | 0.10   | µg/sample | <0.10             | <0.10             | <0.10             | 0.35              | 0.12              |                   |
| Nickel                                       | 7440-02-0  | E457B/BU   | 0.10   | µg/sample | 1.14              | 0.87              | 0.99              | 2.37              | 1.47              |                   |
| Selenium                                     | 7782-49-2  | E457B/BU   | 1.0    | µg/sample | 1.1               | 1.0               | 1.1               | <1.0              | <1.0              |                   |
| Silver                                       | 7440-22-4  | E457B/BU   | 0.10   | µg/sample | <0.10             | <0.10             | <0.10             | 0.13              | <0.10             |                   |
| Thallium                                     | 7440-28-0  | E457B/BU   | 0.10   | µg/sample | 1.33              | 0.36              | 0.13              | 0.84              | 0.35              |                   |
| Vanadium                                     | 7440-62-2  | E457B/BU   | 0.50   | µg/sample | 2.00              | 0.52              | <0.50             | 2.49              | 1.25              |                   |
| Zinc                                         | 7440-66-6  | E457B/BU   | 3.0    | µg/sample | 12.3              | 8.2               | 6.0               | 28.6              | 20.5              |                   |
| Method 29 Mercury: Fraction 1B (HF)          |            |            |        |           |                   |                   |                   |                   |                   |                   |
| Mercury                                      | 7439-97-6  | E521A/BU   | 0.022  | µg/sample | 0.068             | 0.053             | 0.037             | 0.608             | 0.176             |                   |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) |            |            |        |           |                   |                   |                   |                   |                   |                   |
| Mercury                                      | 7439-97-6  | E521B/BU   | 0.75   | µg/L      | <0.75             | <0.75             | <0.75             | <0.75             | <0.75             |                   |
| Mercury                                      | 7439-97-6  | EC521B/BU  | 0.0750 | µg/sample | <0.480            | <0.412            | <0.480            | <0.502            | <0.465            |                   |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                               |            |            |        |           | Client sample ID            | M5/29 CSI Test 1  | M5/29 CSI Test 2  | M5/29 CSI Test 3  | M5/29 ECA Test 1  | M5/29 ECA Test 2  |
|-----------------------------------------------|------------|------------|--------|-----------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                               |            |            |        |           | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |
| Analyte                                       | CAS Number | Method/Lab | LOR    | Unit      |                             | BU2500945-001     | BU2500945-002     | BU2500945-003     | BU2500945-004     | BU2500945-005     |
|                                               |            |            |        |           |                             | Result            | Result            | Result            | Result            | Result            |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) |            |            |        |           |                             |                   |                   |                   |                   |                   |
| Mercury                                       | 7439-97-6  | E521C/BU   | 0.15   | µg/L      |                             | <0.15             | <0.15             | <0.15             | <0.15             | <0.15             |
| Mercury                                       | 7439-97-6  | EC521C/BU  | 0.015  | µg/sample |                             | <0.014            | <0.009            | <0.014            | <0.015            | <0.011            |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4)  |            |            |        |           |                             |                   |                   |                   |                   |                   |
| Mercury                                       | 7439-97-6  | E521D/BU   | 0.075  | µg/L      |                             | 29.2              | 30.8              | 29.1              | 8.91              | 13.6              |
| Mercury                                       | 7439-97-6  | EC521D/BU  | 0.0075 | µg/sample |                             | 14.6              | 15.4              | 14.6              | 4.46              | 6.80              |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4)  |            |            |        |           |                             |                   |                   |                   |                   |                   |
| Mercury                                       | 7439-97-6  | E521E/BU   | 0.75   | µg/L      |                             | 1.38              | 2.49              | 1.76              | 12.7              | 8.92              |
| Mercury                                       | 7439-97-6  | EC521E/BU  | 0.075  | µg/sample |                             | 0.228             | 0.411             | 0.290             | 2.10              | 1.47              |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                              |            |            |      |          | Client sample ID            | M5/29 ECA Test 3  | M5/29 Blank       |      |      |      |
|----------------------------------------------|------------|------------|------|----------|-----------------------------|-------------------|-------------------|------|------|------|
|                                              |            |            |      |          | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |      |      |      |
| Analyte                                      | CAS Number | Method/Lab | LOR  | Unit     |                             | BU2500945-006     | BU2500945-007     |      |      |      |
|                                              |            |            |      |          |                             | Result            | Result            |      |      |      |
| Particulates                                 |            |            |      |          |                             |                   |                   |      |      |      |
| mass, acetone [FRONT]                        | ----       | E898A/BU   | 0.40 | g        |                             | 65.3              | 37.2              | ---- | ---- | ---- |
| particulate matter, acetone impinger [FRONT] | ----       | E897A/BU   | 0.4  | mg       |                             | 48.2              | <0.4              | ---- | ---- | ---- |
| Particulate matter, filter                   | ----       | E890/BU    | 0.6  | mg       |                             | 87.4              | <0.6              | ---- | ---- | ---- |
| Metals                                       |            |            |      |          |                             |                   |                   |      |      |      |
| Arsenic                                      | 7440-38-2  | EC457/BU   | 1.1  | total µg |                             | <1.1              | <1.1              | ---- | ---- | ---- |
| Barium                                       | 7440-39-3  | EC457/BU   | 5.6  | total µg |                             | 24.8              | <5.6              | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                           |            |            |      |               | Client sample ID            | M5/29 ECA Test 3  | M5/29 Blank       | ---- | ---- | ---- |
|-------------------------------------------|------------|------------|------|---------------|-----------------------------|-------------------|-------------------|------|------|------|
|                                           |            |            |      |               | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | ---- | ---- | ---- |
| Analyte                                   | CAS Number | Method/Lab | LOR  | Unit          | BU2500945-006               | BU2500945-007     | ----              | ---- | ---- | ---- |
|                                           |            |            |      |               | Result                      | Result            | ----              | ---- | ---- | ---- |
| <b>Metals</b>                             |            |            |      |               |                             |                   |                   |      |      |      |
| Beryllium                                 | 7440-41-7  | EC457/BU   | 0.22 | total µg      | <0.22                       | <0.22             | ----              | ---- | ---- | ---- |
| Cadmium                                   | 7440-43-9  | EC457/BU   | 0.11 | total µg      | 1.64                        | <0.11             | ----              | ---- | ---- | ---- |
| Chromium                                  | 7440-47-3  | EC457/BU   | 1.1  | total µg      | 110                         | <1.1              | ----              | ---- | ---- | ---- |
| Cobalt                                    | 7440-48-4  | EC457/BU   | 0.22 | total µg      | 1.57                        | <0.22             | ----              | ---- | ---- | ---- |
| Copper                                    | 7440-50-8  | EC457/BU   | 1.1  | total µg      | 14.2                        | 2.4               | ----              | ---- | ---- | ---- |
| Lead                                      | 7439-92-1  | EC457/BU   | 0.56 | total µg      | 70.4                        | <0.56             | ----              | ---- | ---- | ---- |
| Manganese                                 | 7439-96-5  | EC457/BU   | 0.56 | total µg      | 79.4                        | <0.56             | ----              | ---- | ---- | ---- |
| Molybdenum                                | 7439-98-7  | EC457/BU   | 0.22 | total µg      | 17.4                        | 10.7              | ----              | ---- | ---- | ---- |
| Nickel                                    | 7440-02-0  | EC457/BU   | 0.22 | total µg      | 40.2                        | 2.60              | ----              | ---- | ---- | ---- |
| Selenium                                  | 7782-49-2  | EC457/BU   | 2.2  | total µg      | <2.2                        | <2.2              | ----              | ---- | ---- | ---- |
| Silver                                    | 7440-22-4  | EC457/BU   | 0.22 | total µg      | 0.96                        | <0.22             | ----              | ---- | ---- | ---- |
| Thallium                                  | 7440-28-0  | EC457/BU   | 0.22 | total µg      | 5.91                        | <0.22             | ----              | ---- | ---- | ---- |
| Vanadium                                  | 7440-62-2  | EC457/BU   | 1.1  | total µg      | 22.6                        | <1.1              | ----              | ---- | ---- | ---- |
| Zinc                                      | 7440-66-6  | EC457/BU   | 6.7  | total µg      | 110                         | <6.7              | ----              | ---- | ---- | ---- |
| <b>Method 29 Metals: Fraction 1A (HF)</b> |            |            |      |               |                             |                   |                   |      |      |      |
| Arsenic                                   | 7440-38-2  | E457A/BU   | 1.0  | µg/sampl<br>e | <1.0                        | <1.0              | ----              | ---- | ---- | ---- |
| Barium                                    | 7440-39-3  | E457A/BU   | 5.0  | µg/sampl<br>e | 24.8                        | <5.0              | ----              | ---- | ---- | ---- |
| Beryllium                                 | 7440-41-7  | E457A/BU   | 0.20 | µg/sampl<br>e | <0.20                       | <0.20             | ----              | ---- | ---- | ---- |
| Cadmium                                   | 7440-43-9  | E457A/BU   | 0.10 | µg/sampl<br>e | 1.64                        | <0.10             | ----              | ---- | ---- | ---- |
| Chromium                                  | 7440-47-3  | E457A/BU   | 1.0  | µg/sampl<br>e | 108                         | <1.0              | ----              | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                           |            |            |       |           | Client sample ID            | M5/29 ECA Test 3  | M5/29 Blank       |  |  |  |
|-------------------------------------------|------------|------------|-------|-----------|-----------------------------|-------------------|-------------------|--|--|--|
|                                           |            |            |       |           | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |  |  |  |
| Analyte                                   | CAS Number | Method/Lab | LOR   | Unit      | BU2500945-006               | BU2500945-007     |                   |  |  |  |
|                                           |            |            |       |           | Result                      | Result            |                   |  |  |  |
| Method 29 Metals: Fraction 1A (HF)        |            |            |       |           |                             |                   |                   |  |  |  |
| Cobalt                                    | 7440-48-4  | E457A/BU   | 0.20  | µg/sample | 1.28                        | <0.20             |                   |  |  |  |
| Copper                                    | 7440-50-8  | E457A/BU   | 1.0   | µg/sample | 7.6                         | 1.0               |                   |  |  |  |
| Lead                                      | 7439-92-1  | E457A/BU   | 0.50  | µg/sample | 69.6                        | <0.50             |                   |  |  |  |
| Manganese                                 | 7439-96-5  | E457A/BU   | 0.50  | µg/sample | 70.9                        | <0.50             |                   |  |  |  |
| Molybdenum                                | 7439-98-7  | E457A/BU   | 0.20  | µg/sample | 17.4                        | 10.7              |                   |  |  |  |
| Nickel                                    | 7440-02-0  | E457A/BU   | 0.20  | µg/sample | 38.6                        | 2.43              |                   |  |  |  |
| Selenium                                  | 7782-49-2  | E457A/BU   | 2.0   | µg/sample | <2.0                        | <2.0              |                   |  |  |  |
| Silver                                    | 7440-22-4  | E457A/BU   | 0.20  | µg/sample | 0.96                        | <0.20             |                   |  |  |  |
| Thallium                                  | 7440-28-0  | E457A/BU   | 0.20  | µg/sample | 5.91                        | <0.20             |                   |  |  |  |
| Vanadium                                  | 7440-62-2  | E457A/BU   | 1.0   | µg/sample | 22.6                        | <1.0              |                   |  |  |  |
| Zinc                                      | 7440-66-6  | E457A/BU   | 6.0   | µg/sample | 92.9                        | <6.0              |                   |  |  |  |
| Method 29 Metals: Fraction 2A (HNO3/H2O2) |            |            |       |           |                             |                   |                   |  |  |  |
| Arsenic                                   | 7440-38-2  | E457B/BU   | 0.50  | µg/sample | <0.50                       | <0.50             |                   |  |  |  |
| Barium                                    | 7440-39-3  | E457B/BU   | 2.5   | µg/sample | <2.5                        | <2.5              |                   |  |  |  |
| Beryllium                                 | 7440-41-7  | E457B/BU   | 0.10  | µg/sample | <0.10                       | <0.10             |                   |  |  |  |
| Cadmium                                   | 7440-43-9  | E457B/BU   | 0.050 | µg/sample | <0.050                      | <0.050            |                   |  |  |  |
| Chromium                                  | 7440-47-3  | E457B/BU   | 0.50  | µg/sample | 1.66                        | <0.50             |                   |  |  |  |
| Cobalt                                    | 7440-48-4  | E457B/BU   | 0.10  | µg/sample | 0.29                        | <0.10             |                   |  |  |  |
| Copper                                    | 7440-50-8  | E457B/BU   | 0.50  | µg/sample | 6.64                        | 1.45              |                   |  |  |  |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

| Client sample ID                              |            |            |        |           | M5/29 ECA Test 3  | M5/29 Blank       | ---- | ---- | ---- |
|-----------------------------------------------|------------|------------|--------|-----------|-------------------|-------------------|------|------|------|
| Client sampling date / time                   |            |            |        |           | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | ---- | ---- | ---- |
| Analyte                                       | CAS Number | Method/Lab | LOR    | Unit      | BU2500945-006     | BU2500945-007     | ---- | ---- | ---- |
|                                               |            |            |        |           | Result            | Result            | ---- | ---- | ---- |
| Method 29 Metals: Fraction 2A (HNO3/H2O2)     |            |            |        |           |                   |                   |      |      |      |
| Lead                                          | 7439-92-1  | E457B/BU   | 0.25   | µg/sample | 0.80              | <0.25             | ---- | ---- | ---- |
| Manganese                                     | 7439-96-5  | E457B/BU   | 0.25   | µg/sample | 8.52              | <0.25             | ---- | ---- | ---- |
| Molybdenum                                    | 7439-98-7  | E457B/BU   | 0.10   | µg/sample | <0.10             | <0.10             | ---- | ---- | ---- |
| Nickel                                        | 7440-02-0  | E457B/BU   | 0.10   | µg/sample | 1.55              | 0.17              | ---- | ---- | ---- |
| Selenium                                      | 7782-49-2  | E457B/BU   | 1.0    | µg/sample | <1.0              | <1.0              | ---- | ---- | ---- |
| Silver                                        | 7440-22-4  | E457B/BU   | 0.10   | µg/sample | <0.10             | <0.10             | ---- | ---- | ---- |
| Thallium                                      | 7440-28-0  | E457B/BU   | 0.10   | µg/sample | <0.10             | <0.10             | ---- | ---- | ---- |
| Vanadium                                      | 7440-62-2  | E457B/BU   | 0.50   | µg/sample | <0.50             | <0.50             | ---- | ---- | ---- |
| Zinc                                          | 7440-66-6  | E457B/BU   | 3.0    | µg/sample | 16.7              | <3.0              | ---- | ---- | ---- |
| Method 29 Mercury: Fraction 1B (HF)           |            |            |        |           |                   |                   |      |      |      |
| Mercury                                       | 7439-97-6  | E521A/BU   | 0.022  | µg/sample | 0.049             | <0.022            | ---- | ---- | ---- |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4)  |            |            |        |           |                   |                   |      |      |      |
| Mercury                                       | 7439-97-6  | E521B/BU   | 0.75   | µg/L      | <0.75             | <0.75             | ---- | ---- | ---- |
| Mercury                                       | 7439-97-6  | EC521B/BU  | 0.0750 | µg/sample | <0.529            | <0.0555           | ---- | ---- | ---- |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) |            |            |        |           |                   |                   |      |      |      |
| Mercury                                       | 7439-97-6  | E521C/BU   | 0.15   | µg/L      | <0.15             | ----              | ---- | ---- | ---- |
| Mercury                                       | 7439-97-6  | EC521C/BU  | 0.015  | µg/sample | <0.010            | ----              | ---- | ---- | ---- |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4)  |            |            |        |           |                   |                   |      |      |      |
| Mercury                                       | 7439-97-6  | E521D/BU   | 0.075  | µg/L      | 8.96              | <0.075            | ---- | ---- | ---- |
| Mercury                                       | 7439-97-6  | EC521D/BU  | 0.0075 | µg/sample | 4.48              | <0.0098           | ---- | ---- | ---- |



Analytical Results

Sub-Matrix: Impinger  
(Matrix: Air)

|                                              |            |            |       |           | Client sample ID            | M5/29 ECA Test 3  | M5/29 Blank       | ---- | ---- | ---- |
|----------------------------------------------|------------|------------|-------|-----------|-----------------------------|-------------------|-------------------|------|------|------|
|                                              |            |            |       |           | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | ---- | ---- | ---- |
| Analyte                                      | CAS Number | Method/Lab | LOR   | Unit      | BU2500945-006               | BU2500945-007     | ----              | ---- | ---- | ---- |
|                                              |            |            |       |           | Result                      | Result            | ----              | ---- | ---- | ---- |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) |            |            |       |           |                             |                   |                   |      |      |      |
| Mercury                                      | 7439-97-6  | E521E/BU   | 0.75  | µg/L      | 12.5                        | <0.75             | ----              | ---- | ---- | ---- |
| Mercury                                      | 7439-97-6  | EC521E/BU  | 0.075 | µg/sample | 2.06                        | <0.079            | ----              | ---- | ---- | ---- |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

## QUALITY CONTROL INTERPRETIVE REPORT

|                         |                                                   |                       |                                                                    |
|-------------------------|---------------------------------------------------|-----------------------|--------------------------------------------------------------------|
| Work Order              | : <b>BU2500945</b>                                | Page                  | : 1 of 15                                                          |
| Client                  | : <b>RWDI Air Inc.</b>                            | Laboratory            | : ALS Environmental - Burlington                                   |
| Contact                 | : Oluwatobi Odumoye                               | Account Manager       | : Robert Chin                                                      |
| Address                 | : 600 Southgate Drive<br>Guelph ON Canada N1G 4P6 | Address               | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| Telephone               | : 519 823 1311                                    | Telephone             | : +1 905 331 3111                                                  |
| Project                 | : 2509873 SMC St. Mary's                          | Date Samples Received | : 15-Apr-2025 11:35                                                |
| PO                      | : 2509873                                         | Issue Date            | : 07-May-2025 16:52                                                |
| C-O-C number            | : ----                                            |                       |                                                                    |
| Sampler                 | : Adam Tran                                       |                       |                                                                    |
| Site                    | :                                                 |                       |                                                                    |
| Quote number            | : SMC St Marys                                    |                       |                                                                    |
| No. of samples received | : 7                                               |                       |                                                                    |
| No. of samples analysed | : 7                                               |                       |                                                                    |

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

### Key

**Anonymous:** Refers to samples which are not part of this work order, but which formed part of the QC process lot.

**CAS Number:** Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

**DQO:** Data Quality Objective.

**LOR:** Limit of Reporting (detection limit).

**RPD:** Relative Percent Difference.

### Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### Summary of Outliers

#### Outliers : Quality Control Samples

- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- No Matrix Spike Duplicate (MSD) outliers occur - please see following pages for full details.
- Method Blank value outliers occur - please see following pages for full details.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

### ***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

### ***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



## Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Air

| Analyte Group                      | Laboratory sample ID | Client/Ref Sample ID | Analyte | CAS Number | Method | Result                         | Limits        | Comment                              |
|------------------------------------|----------------------|----------------------|---------|------------|--------|--------------------------------|---------------|--------------------------------------|
| <b>Method Blank (MB) Values</b>    |                      |                      |         |            |        |                                |               |                                      |
| Method 29 Metals: Fraction 1A (HF) | QC-MRG2-1980324 001  | ----                 | Nickel  | 7440-02-0  | E457A  | 2.35 <sup>B</sup><br>µg/sample | 0.6 µg/sample | Blank result exceeds permitted value |

## Result Qualifiers

| Qualifier | Description                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| B         | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |

|                                                   |                     |      |           |           |       |                         |           |                                           |
|---------------------------------------------------|---------------------|------|-----------|-----------|-------|-------------------------|-----------|-------------------------------------------|
| <b>Laboratory Control Sample (LCS) Recoveries</b> |                     |      |           |           |       |                         |           |                                           |
| Method 29 Metals: Fraction 1A (HF)                | QC-MRG2-1980324 002 | ---- | Barium    | 7440-39-3 | E457A | 69.2 % <sup>LCS-L</sup> | 80.0-120% | Recovery less than lower control limit    |
| Method 29 Metals: Fraction 1A (HF)                | QC-MRG2-1980324 002 | ---- | Chromium  | 7440-47-3 | E457A | 71.3 % <sup>LCS-L</sup> | 80.0-120% | Recovery less than lower control limit    |
| Method 29 Metals: Fraction 1A (HF)                | QC-MRG2-1980324 002 | ---- | Manganese | 7439-96-5 | E457A | 368 % <sup>RRQC</sup>   | 80.0-120% | Recovery greater than upper control limit |

## Result Qualifiers

| Qualifier | Description                                                                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCS-L     | Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified. |
| RRQC      | Refer to report comments for information regarding this QC result.                                                                                                                                                   |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|----------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                      |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                      |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Metals : Method 29 Metals: Fraction 2A by ICPMS                      |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 Blank                  | E457B  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Metals : Method 29 Metals: Fraction 2A by ICPMS                      |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 CSI Test 1             | E457B  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Metals : Method 29 Metals: Fraction 2A by ICPMS                      |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 CSI Test 2             | E457B  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Metals : Method 29 Metals: Fraction 2A by ICPMS                      |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 CSI Test 3             | E457B  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Metals : Method 29 Metals: Fraction 2A by ICPMS                      |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 ECA Test 1             | E457B  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Metals : Method 29 Metals: Fraction 2A by ICPMS                      |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 ECA Test 2             | E457B  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Metals : Method 29 Metals: Fraction 2A by ICPMS                      |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 ECA Test 3             | E457B  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |

Page : 5 of 15  
 Work Order : BU2500945  
 Client : RWDI Air Inc.  
 Project : 2509873 SMC St. Mary's



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                   | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|----------------------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                                        |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                                        |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Method 29 Mercury: Fraction 1B (HF) : Method 29 Mercury: Fraction 1B (HF) by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 Blank                                           | E521A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 05-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Mercury: Fraction 1B (HF) : Method 29 Mercury: Fraction 1B (HF) by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 CSI Test 1                                      | E521A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 05-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Mercury: Fraction 1B (HF) : Method 29 Mercury: Fraction 1B (HF) by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 CSI Test 2                                      | E521A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 05-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Mercury: Fraction 1B (HF) : Method 29 Mercury: Fraction 1B (HF) by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 CSI Test 3                                      | E521A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 05-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Mercury: Fraction 1B (HF) : Method 29 Mercury: Fraction 1B (HF) by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 ECA Test 1                                      | E521A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 05-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Mercury: Fraction 1B (HF) : Method 29 Mercury: Fraction 1B (HF) by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 ECA Test 2                                      | E521A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 05-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Mercury: Fraction 1B (HF) : Method 29 Mercury: Fraction 1B (HF) by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 ECA Test 3                                      | E521A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 05-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 2B by CVAAS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 Blank                                    | E521B  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 2B by CVAAS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 CSI Test 1                               | E521B  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                    | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|-----------------------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                                         |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                                         |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 2B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 CSI Test 2                                | E521B  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 2B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 CSI Test 3                                | E521B  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 2B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 ECA Test 1                                | E521B  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 2B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 ECA Test 2                                | E521B  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 2B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 5% HNO3 + 10% H2O2 (Impingers)<br>M5/29 ECA Test 3                                | E521B  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) : Method 29 Mercury: Fraction 3A by CVAAS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Impinger Rinse)<br>M5/29 CSI Test 1                                    | E521C  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) : Method 29 Mercury: Fraction 3A by CVAAS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Impinger Rinse)<br>M5/29 CSI Test 2                                    | E521C  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) : Method 29 Mercury: Fraction 3A by CVAAS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Impinger Rinse)<br>M5/29 CSI Test 3                                    | E521C  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) : Method 29 Mercury: Fraction 3A by CVAAS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Impinger Rinse)<br>M5/29 ECA Test 1                                    | E521C  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |

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 Client : RWDI Air Inc.  
 Project : 2509873 SMC St. Mary's



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                    | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|-----------------------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                                         |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                                         |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) : Method 29 Mercury: Fraction 3A by CVAAS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Impinger Rinse)<br>M5/29 ECA Test 2                                    | E521C  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) : Method 29 Mercury: Fraction 3A by CVAAS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Impinger Rinse)<br>M5/29 ECA Test 3                                    | E521C  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 05-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 4% KMNO4 + 10% H2SO4 (Impingers)<br>M5/29 Blank                                   | E521D  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 4% KMNO4 + 10% H2SO4 (Impingers)<br>M5/29 CSI Test 1                              | E521D  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 4% KMNO4 + 10% H2SO4 (Impingers)<br>M5/29 CSI Test 2                              | E521D  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 4% KMNO4 + 10% H2SO4 (Impingers)<br>M5/29 CSI Test 3                              | E521D  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 4% KMNO4 + 10% H2SO4 (Impingers)<br>M5/29 ECA Test 1                              | E521D  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 4% KMNO4 + 10% H2SO4 (Impingers)<br>M5/29 ECA Test 2                              | E521D  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3B by CVAAS  |        |               |                          |               |         |      |               |               |         |      |
| M29 : 4% KMNO4 + 10% H2SO4 (Impingers)<br>M5/29 ECA Test 3                              | E521D  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |

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 Client : RWDI Air Inc.  
 Project : 2509873 SMC St. Mary's



Matrix: Air Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                       | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--------------------------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                                            |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                                            |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 8N HCl (Impinger Rinse)<br>M5/29 Blank                                               | E521E  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 8N HCl (Impinger Rinse)<br>M5/29 CSI Test 1                                          | E521E  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 8N HCl (Impinger Rinse)<br>M5/29 CSI Test 2                                          | E521E  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 8N HCl (Impinger Rinse)<br>M5/29 CSI Test 3                                          | E521E  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 8N HCl (Impinger Rinse)<br>M5/29 ECA Test 1                                          | E521E  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 8N HCl (Impinger Rinse)<br>M5/29 ECA Test 2                                          | E521E  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) : Method 29 Mercury: Fraction 3C by CVAAS     |        |               |                          |               |         |      |               |               |         |      |
| M29 : 8N HCl (Impinger Rinse)<br>M5/29 ECA Test 3                                          | E521E  | 08-Apr-2025   | 30-Apr-2025              | 28 days       | 23 days | ✓    | 02-May-2025   | 28 days       | 23 days | ✓    |
| Method 29 Metals: Fraction 1A (HF) : Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 Blank                                               | E457A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Metals: Fraction 1A (HF) : Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 CSI Test 1                                          | E457A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |

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 Project : 2509873 SMC St. Mary's



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)                       | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|--------------------------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                                            |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                                            |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Method 29 Metals: Fraction 1A (HF) : Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 CSI Test 2                                          | E457A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Metals: Fraction 1A (HF) : Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 CSI Test 3                                          | E457A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Metals: Fraction 1A (HF) : Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 ECA Test 1                                          | E457A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Metals: Fraction 1A (HF) : Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 ECA Test 2                                          | E457A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Method 29 Metals: Fraction 1A (HF) : Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS |        |               |                          |               |         |      |               |               |         |      |
| M29 : 0.1N HNO3 (Probe Rinse)<br>M5/29 ECA Test 3                                          | E457A  | 08-Apr-2025   | 05-May-2025              | 28 days       | 28 days | ✓    | 06-May-2025   | 28 days       | 28 days | ✓    |
| Particulates : Particulates in Stack Emission Acetone Rinse by Gravimetry                  |        |               |                          |               |         |      |               |               |         |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 Blank                                              | E897A  | 08-Apr-2025   | ----                     | ----          | ----    |      | 29-Apr-2025   | ----          | ----    |      |
| Particulates : Particulates in Stack Emission Acetone Rinse by Gravimetry                  |        |               |                          |               |         |      |               |               |         |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 CSI Test 1                                         | E897A  | 08-Apr-2025   | ----                     | ----          | ----    |      | 29-Apr-2025   | ----          | ----    |      |
| Particulates : Particulates in Stack Emission Acetone Rinse by Gravimetry                  |        |               |                          |               |         |      |               |               |         |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 CSI Test 2                                         | E897A  | 08-Apr-2025   | ----                     | ----          | ----    |      | 29-Apr-2025   | ----          | ----    |      |
| Particulates : Particulates in Stack Emission Acetone Rinse by Gravimetry                  |        |               |                          |               |         |      |               |               |         |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 CSI Test 3                                         | E897A  | 08-Apr-2025   | ----                     | ----          | ----    |      | 29-Apr-2025   | ----          | ----    |      |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)      | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|---------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|                                                                           |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                                                           |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Particulates : Particulates in Stack Emission Acetone Rinse by Gravimetry |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 ECA Test 1                        | E897A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 29-Apr-2025   | ----          | ----   |      |
| Particulates : Particulates in Stack Emission Acetone Rinse by Gravimetry |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 ECA Test 2                        | E897A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 29-Apr-2025   | ----          | ----   |      |
| Particulates : Particulates in Stack Emission Acetone Rinse by Gravimetry |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 ECA Test 3                        | E897A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 29-Apr-2025   | ----          | ----   |      |
| Particulates : Particulates in Stack Emission Filter by Gravimetry        |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Quartz Filter<br>M5/29 Blank                                     | E890   | 08-Apr-2025   | ----                     | ----          | ----   |      | 25-Apr-2025   | ----          | ----   |      |
| Particulates : Particulates in Stack Emission Filter by Gravimetry        |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Quartz Filter<br>M5/29 CSI Test 1                                | E890   | 08-Apr-2025   | ----                     | ----          | ----   |      | 25-Apr-2025   | ----          | ----   |      |
| Particulates : Particulates in Stack Emission Filter by Gravimetry        |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Quartz Filter<br>M5/29 CSI Test 2                                | E890   | 08-Apr-2025   | ----                     | ----          | ----   |      | 25-Apr-2025   | ----          | ----   |      |
| Particulates : Particulates in Stack Emission Filter by Gravimetry        |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Quartz Filter<br>M5/29 CSI Test 3                                | E890   | 08-Apr-2025   | ----                     | ----          | ----   |      | 25-Apr-2025   | ----          | ----   |      |
| Particulates : Particulates in Stack Emission Filter by Gravimetry        |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Quartz Filter<br>M5/29 ECA Test 1                                | E890   | 08-Apr-2025   | ----                     | ----          | ----   |      | 25-Apr-2025   | ----          | ----   |      |
| Particulates : Particulates in Stack Emission Filter by Gravimetry        |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Quartz Filter<br>M5/29 ECA Test 2                                | E890   | 08-Apr-2025   | ----                     | ----          | ----   |      | 25-Apr-2025   | ----          | ----   |      |

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 Client : RWDI Air Inc.  
 Project : 2509873 SMC St. Mary's



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|----------------------------------------------------------------------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|                                                                      |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                                                      |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Particulates : Particulates in Stack Emission Filter by Gravimetry   |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Quartz Filter<br>M5/29 ECA Test 3                           | E890   | 08-Apr-2025   | ----                     | ----          | ----   |      | 25-Apr-2025   | ----          | ----   |      |
| Particulates : Stack Emission Acetone Rinse Mass by Gravimetry       |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 Blank                        | E898A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 24-Apr-2025   | ----          | ----   |      |
| Particulates : Stack Emission Acetone Rinse Mass by Gravimetry       |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 CSI Test 1                   | E898A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 24-Apr-2025   | ----          | ----   |      |
| Particulates : Stack Emission Acetone Rinse Mass by Gravimetry       |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 CSI Test 2                   | E898A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 24-Apr-2025   | ----          | ----   |      |
| Particulates : Stack Emission Acetone Rinse Mass by Gravimetry       |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 CSI Test 3                   | E898A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 24-Apr-2025   | ----          | ----   |      |
| Particulates : Stack Emission Acetone Rinse Mass by Gravimetry       |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 ECA Test 1                   | E898A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 24-Apr-2025   | ----          | ----   |      |
| Particulates : Stack Emission Acetone Rinse Mass by Gravimetry       |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 ECA Test 2                   | E898A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 24-Apr-2025   | ----          | ----   |      |
| Particulates : Stack Emission Acetone Rinse Mass by Gravimetry       |        |               |                          |               |        |      |               |               |        |      |
| M5/M29 : Acetone (Probe Rinse)<br>M5/29 ECA Test 3                   | E898A  | 08-Apr-2025   | ----                     | ----          | ----   |      | 24-Apr-2025   | ----          | ----   |      |

**Legend & Qualifier Definitions**

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                                |        |          | Count |         | Frequency (%) |          |            |
|------------------------------------------------------------|--------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                                         | Method | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| Laboratory Duplicates (DUP)                                |        |          |       |         |               |          |            |
| Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS      | E457A  | 1980324  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Method 29 Metals: Fraction 2A by ICPMS                     | E457B  | 1980333  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 1B (HF) by CVAAS               | E521A  | 1980325  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 2B by CVAAS                    | E521B  | 1973613  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3A by CVAAS                    | E521C  | 1973616  | 1     | 7       | 14.2          | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3B by CVAAS                    | E521D  | 1973614  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3C by CVAAS                    | E521E  | 1973615  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Particulates in Stack Emission Filter by Gravimetry        | E890   | 1961659  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Particulates in Stack Emission Acetone Rinse by Gravimetry | E897A  | 1960802  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Stack Emission Acetone Rinse Mass by Gravimetry            | E898A  | 1960801  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Laboratory Control Samples (LCS)                           |        |          |       |         |               |          |            |
| Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS      | E457A  | 1980324  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Method 29 Metals: Fraction 2A by ICPMS                     | E457B  | 1980333  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 1B (HF) by CVAAS               | E521A  | 1980325  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 2B by CVAAS                    | E521B  | 1973613  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3A by CVAAS                    | E521C  | 1973616  | 1     | 7       | 14.2          | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3B by CVAAS                    | E521D  | 1973614  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3C by CVAAS                    | E521E  | 1973615  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method Blanks (MB)                                         |        |          |       |         |               |          |            |
| Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS      | E457A  | 1980324  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Method 29 Metals: Fraction 2A by ICPMS                     | E457B  | 1980333  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 1B (HF) by CVAAS               | E521A  | 1980325  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 2B by CVAAS                    | E521B  | 1973613  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3A by CVAAS                    | E521C  | 1973616  | 1     | 7       | 14.2          | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3B by CVAAS                    | E521D  | 1973614  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3C by CVAAS                    | E521E  | 1973615  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Particulates in Stack Emission Filter by Gravimetry        | E890   | 1961659  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Particulates in Stack Emission Acetone Rinse by Gravimetry | E897A  | 1960802  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Stack Emission Acetone Rinse Mass by Gravimetry            | E898A  | 1960801  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Matrix Spikes (MS)                                         |        |          |       |         |               |          |            |
| Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS      | E457A  | 1980324  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Method 29 Metals: Fraction 2A by ICPMS                     | E457B  | 1980333  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 1B (HF) by CVAAS               | E521A  | 1980325  | 1     | 11      | 9.0           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 2B by CVAAS                    | E521B  | 1973613  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Method 29 Mercury: Fraction 3A by CVAAS                    | E521C  | 1973616  | 1     | 7       | 14.2          | 5.0      | ✓          |



Matrix: Air

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                           |        |          | Count |         | Frequency (%) |          |            |
|-------------------------------------------------------|--------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                                    | Method | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| Matrix Spikes (MS) - Continued                        |        |          |       |         |               |          |            |
| Method 29 Mercury: Fraction 3B by CVAAS               | E521D  | 1973614  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Method 29 Mercury: Fraction 3C by CVAAS               | E521E  | 1973615  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Matrix Spike Duplicates (MSD)                         |        |          |       |         |               |          |            |
| Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS | E457A  | 1980324  | 1     | 11      | 9.0           | 5.0      | ✔          |
| Method 29 Metals: Fraction 2A by ICPMS                | E457B  | 1980333  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Method 29 Mercury: Fraction 1B (HF) by CVAAS          | E521A  | 1980325  | 1     | 11      | 9.0           | 5.0      | ✔          |
| Method 29 Mercury: Fraction 2B by CVAAS               | E521B  | 1973613  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Method 29 Mercury: Fraction 3A by CVAAS               | E521C  | 1973616  | 1     | 7       | 14.2          | 5.0      | ✔          |
| Method 29 Mercury: Fraction 3B by CVAAS               | E521D  | 1973614  | 1     | 12      | 8.3           | 5.0      | ✔          |
| Method 29 Mercury: Fraction 3C by CVAAS               | E521E  | 1973615  | 1     | 12      | 8.3           | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods                                         | Method / Lab                            | Matrix | Method Reference                                           | Method Descriptions                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------|-----------------------------------------|--------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method 29 Metals: Fraction 1A (hydrofluoric) by ICPMS      | E457A<br>ALS Environmental - Burlington | Air    | EPA Method 29 (preparation), EPA Method 6020B (analytical) | Front-half (FH) sample fractions are combined for closed-vessel microwave digestion in hydrofluoric acid. After digestion, samples are submitted to instruments for analysis by ICP-MS.                                                                                                                        |
| Method 29 Metals: Fraction 2A by ICPMS                     | E457B<br>ALS Environmental - Burlington | Air    | EPA Method 29 (preparation), EPA Method 6020B (analytical) | Back-half (BH) samples are digested using an open vessel procedure. After digestion, samples are submitted to instruments for analysis by ICP-MS.                                                                                                                                                              |
| Method 29 Mercury: Fraction 1B (HF) by CVAAS               | E521A<br>ALS Environmental - Burlington | Air    | EPA Method 29 (preparation), EPA Method 7470A (analysis)   | After microwave digestion, a sub-sample is re-digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA.                                                                                                                       |
| Method 29 Mercury: Fraction 2B by CVAAS                    | E521B<br>ALS Environmental - Burlington | Air    | EPA Method 29 (preparation), EPA Method 7470A (analytical) | A sub-sample is digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA.                                                                                                                                                     |
| Method 29 Mercury: Fraction 3A by CVAAS                    | E521C<br>ALS Environmental - Burlington | Air    | EPA Method 29 (preparation), EPA 7470A (analytical)        | A sub-sample is digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA.                                                                                                                                                     |
| Method 29 Mercury: Fraction 3B by CVAAS                    | E521D<br>ALS Environmental - Burlington | Air    | EPA Method 29 (preparation), EPA Method 7470A (analysis)   | Samples are filtered, and rinsed, to remove solids. A sub-sample of the filtrate is digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA.                                                                                 |
| Method 29 Mercury: Fraction 3C by CVAAS                    | E521E<br>ALS Environmental - Burlington | Air    | EPA Method 29 (preparation), EPA Method 7470A (analytical) | Filter and solids from the filtration of Fraction 3B are placed into a vessel and covered with 8N HCl. This is then re-filtered and a sub-sample of the filtrate is digested in oxidizing reagents, using an open-vessel hotblock method. Samples are treated with a reductant to facilitate analysis by CVAA. |
| Particulates in Stack Emission Filter by Gravimetry        | E890<br>ALS Environmental - Burlington  | Air    | EPA Method 5 (mod.)                                        | Gravimetric analysis of particulate air samples collected on filters.                                                                                                                                                                                                                                          |
| Particulates in Stack Emission Acetone Rinse by Gravimetry | E897A<br>ALS Environmental - Burlington | Air    | EPA Method 5 (mod.)                                        | Gravimetric analysis of particulate air samples collected in acetone rinses.                                                                                                                                                                                                                                   |
| Stack Emission Acetone Rinse Mass by Gravimetry            | E898A<br>ALS Environmental - Burlington | Air    | EPA Method 5 (mod.)                                        | Gravimetric analysis of acetone mass from rinses.                                                                                                                                                                                                                                                              |



| <i>Analytical Methods</i>         | <i>Method / Lab</i>                      | <i>Matrix</i> | <i>Method Reference</i> | <i>Method Descriptions</i>                                          |
|-----------------------------------|------------------------------------------|---------------|-------------------------|---------------------------------------------------------------------|
| Metals in Stack Analysis (M29)    | EC457<br>ALS Environmental - Burlington  | Air           | Result summation        | Summation of front half and back-half to provide "combined" result. |
| Hg Fraction 2B (Method 29) - CALC | EC521B<br>ALS Environmental - Burlington | Air           | unit conversion         | Convert ug/L to ug/sample                                           |
| Hg Fraction 3A (Method 29) - CALC | EC521C<br>ALS Environmental - Burlington | Air           | unit conversion         | Convert ug/L to ug/sample                                           |
| Hg Fraction 3B (Method 29) - CALC | EC521D<br>ALS Environmental - Burlington | Air           | unit conversion         | Convert ug/L to ug/sample                                           |
| Hg Fraction 3C (Method 29) - CALC | EC521E<br>ALS Environmental - Burlington | Air           | unit conversion         | Convert ug/L to ug/sample                                           |

| <i>Preparation Methods</i>                              | <i>Method / Lab</i>                      | <i>Matrix</i> | <i>Method Reference</i>     | <i>Method Descriptions</i>                                                                                               |
|---------------------------------------------------------|------------------------------------------|---------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Sample preparation (HF) for Fraction 1A/1B Stack Metals | EP457A<br>ALS Environmental - Burlington | Air           | EPA Method 29 (preparation) | Samples are digested using hydrofluoric acid in a closed vessel procedure. Analysis by ICP-MS (1A) or CVAA (1B) follows. |
| Sample preparation for Fraction 2A/2B Stack Metals      | EP457B<br>ALS Environmental - Burlington | Air           | EPA Method 29 (preparation) | Samples are digested using an open vessel procedure. Analysis by ICP-MS (2A) or CVAA (2B) follows.                       |

QUALITY CONTROL REPORT

|                         |                                                   |                         |                                                                    |
|-------------------------|---------------------------------------------------|-------------------------|--------------------------------------------------------------------|
| Work Order              | : BU2500945                                       | Page                    | : 1 of 12                                                          |
| Client                  | : RWDI Air Inc.                                   | Laboratory              | : ALS Environmental - Burlington                                   |
| Contact                 | : Oluwatobi Odumoye                               | Account Manager         | : Robert Chin                                                      |
| Address                 | : 600 Southgate Drive<br>Guelph ON Canada N1G 4P6 | Address                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| Telephone               | : 519 823 1311                                    | Telephone               | : +1 905 331 3111                                                  |
| Project                 | : 2509873 SMC St. Mary's                          | Date Samples Received   | : 15-Apr-2025 11:35                                                |
| PO                      | : 2509873                                         | Date Analysis Commenced | : 24-Apr-2025                                                      |
| C-O-C number            | : ----                                            | Issue Date              | : 07-May-2025 16:52                                                |
| Sampler                 | : Adam Tran                                       |                         |                                                                    |
| Site                    | :                                                 |                         |                                                                    |
| Quote number            | : SMC St Marys                                    |                         |                                                                    |
| No. of samples received | : 7                                               |                         |                                                                    |
| No. of samples analysed | : 7                                               |                         |                                                                    |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Matrix Spike Duplicate (MSD) Report; Relative Percent Difference (RPD)
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories    | Position             | Laboratory Department                      |
|----------------|----------------------|--------------------------------------------|
| Milithza Silva | Manager - Inorganics | Burlington Inorganics, Burlington, Ontario |
| Milithza Silva | Manager - Inorganics | Burlington Metals, Burlington, Ontario     |



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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

### Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## Workorder Comments

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Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

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Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

| Sub-Matrix: Air                                      |                  |                                              |            |        | Laboratory Duplicate (DUP) Report |           |                 |                  |                      |                  |           |
|------------------------------------------------------|------------------|----------------------------------------------|------------|--------|-----------------------------------|-----------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                                 | Client sample ID | Analyte                                      | CAS Number | Method | LOR                               | Unit      | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Particulates (QC Lot: 1960801)                       |                  |                                              |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                        | M5/29 CSI Test 1 | mass, acetone [FRONT]                        | ----       | E898A  | 0.40                              | g         | 129             | 129              | 0.00%                | 10%              | ----      |
| Particulates (QC Lot: 1960802)                       |                  |                                              |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                        | M5/29 CSI Test 1 | particulate matter, acetone impinger [FRONT] | ----       | E897A  | 0.4                               | mg        | 121             | 121              | 0.00%                | 10%              | ----      |
| Particulates (QC Lot: 1961659)                       |                  |                                              |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                        | M5/29 CSI Test 1 | Particulate matter, filter                   | ----       | E890   | 0.6                               | mg        | 125             | 125              | 0.00%                | 20%              | ----      |
| Metals (QC Lot: 1980333)                             |                  |                                              |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                        | M5/29 CSI Test 1 | Arsenic                                      | 7440-38-2  | E457B  | 0.50                              | µg/sample | <0.50           | <0.50            | 0                    | Diff <2x LOR     | J         |
|                                                      |                  | Barium                                       | 7440-39-3  | E457B  | 2.5                               | µg/sample | <2.5            | <2.5             | 0                    | Diff <2x LOR     | J         |
|                                                      |                  | Beryllium                                    | 7440-41-7  | E457B  | 0.10                              | µg/sample | <0.10           | <0.10            | 0                    | Diff <2x LOR     | J         |
|                                                      |                  | Cadmium                                      | 7440-43-9  | E457B  | 0.050                             | µg/sample | 0.088           | 0.087            | 0.002                | Diff <2x LOR     | J         |
|                                                      |                  | Chromium                                     | 7440-47-3  | E457B  | 0.50                              | µg/sample | 0.67            | 0.70             | 0.02                 | Diff <2x LOR     | J         |
|                                                      |                  | Cobalt                                       | 7440-48-4  | E457B  | 0.10                              | µg/sample | 0.11            | 0.12             | 0.01                 | Diff <2x LOR     | J         |
|                                                      |                  | Copper                                       | 7440-50-8  | E457B  | 0.50                              | µg/sample | 8.33            | 8.50             | 2.05%                | 20%              | ----      |
|                                                      |                  | Lead                                         | 7439-92-1  | E457B  | 0.25                              | µg/sample | 4.52            | 4.40             | 2.69%                | 20%              | ----      |
|                                                      |                  | Manganese                                    | 7439-96-5  | E457B  | 0.25                              | µg/sample | 12.8            | 13.0             | 1.28%                | 20%              | ----      |
|                                                      |                  | Nickel                                       | 7440-02-0  | E457B  | 0.10                              | µg/sample | 1.14            | 1.18             | 3.37%                | 20%              | ----      |
|                                                      |                  | Selenium                                     | 7782-49-2  | E457B  | 1.0                               | µg/sample | 1.1             | 1.1              | 0.02                 | Diff <2x LOR     | J         |
|                                                      |                  | Silver                                       | 7440-22-4  | E457B  | 0.10                              | µg/sample | <0.10           | <0.10            | 0                    | Diff <2x LOR     | J         |
|                                                      |                  | Thallium                                     | 7440-28-0  | E457B  | 0.10                              | µg/sample | 1.33            | 1.29             | 3.08%                | 20%              | ----      |
|                                                      |                  | Zinc                                         | 7440-66-6  | E457B  | 3.0                               | µg/sample | 12.3            | 12.6             | 0.3                  | Diff <2x LOR     | J         |
| Method 29 Metals: Fraction 1A (HF) (QC Lot: 1980324) |                  |                                              |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                        | M5/29 CSI Test 1 | Arsenic                                      | 7440-38-2  | E457A  | 1.0                               | µg/sample | 1.1             | <1.0             | 0.09                 | Diff <2x LOR     | J         |
|                                                      |                  | Barium                                       | 7440-39-3  | E457A  | 5.0                               | µg/sample | 29.0            | 27.6             | 1.3                  | Diff <2x LOR     | J         |
|                                                      |                  | Beryllium                                    | 7440-41-7  | E457A  | 0.20                              | µg/sample | <0.20           | <0.20            | 0                    | Diff <2x LOR     | J         |
|                                                      |                  | Cadmium                                      | 7440-43-9  | E457A  | 0.10                              | µg/sample | 1.28            | 1.33             | 3.22%                | 20%              | ----      |
|                                                      |                  | Chromium                                     | 7440-47-3  | E457A  | 1.0                               | µg/sample | 58.4            | 55.6             | 4.97%                | 20%              | ----      |
|                                                      |                  | Cobalt                                       | 7440-48-4  | E457A  | 0.20                              | µg/sample | 1.17            | 1.06             | 0.10                 | Diff <2x LOR     | J         |
|                                                      |                  | Copper                                       | 7440-50-8  | E457A  | 1.0                               | µg/sample | 7.8             | 7.7              | 0.04                 | Diff <2x LOR     | J         |
|                                                      |                  | Lead                                         | 7439-92-1  | E457A  | 0.50                              | µg/sample | 41.6            | 42.3             | 1.60%                | 20%              | ----      |
|                                                      |                  | Manganese                                    | 7439-96-5  | E457A  | 0.50                              | µg/sample | 110             | 106              | 3.47%                | 20%              | ----      |



| Sub-Matrix: Air                                                  |                  |          |            |        | Laboratory Duplicate (DUP) Report |           |                 |                  |                      |                  |           |
|------------------------------------------------------------------|------------------|----------|------------|--------|-----------------------------------|-----------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID                                             | Client sample ID | Analyte  | CAS Number | Method | LOR                               | Unit      | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Method 29 Metals: Fraction 1A (HF) (QC Lot: 1980324) - continued |                  |          |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                                    | M5/29 CSI Test 1 | Nickel   | 7440-02-0  | E457A  | 0.20                              | µg/sample | 18.1            | 17.2             | 4.67%                | 20%              | ----      |
|                                                                  |                  | Selenium | 7782-49-2  | E457A  | 2.0                               | µg/sample | <2.0            | <2.0             | 0                    | Diff <2x LOR     | J         |
|                                                                  |                  | Silver   | 7440-22-4  | E457A  | 0.20                              | µg/sample | 0.76            | 0.75             | 0.02                 | Diff <2x LOR     | J         |
|                                                                  |                  | Thallium | 7440-28-0  | E457A  | 0.20                              | µg/sample | 16.3            | 16.5             | 1.04%                | 20%              | ----      |
|                                                                  |                  | Zinc     | 7440-66-6  | E457A  | 6.0                               | µg/sample | 139             | 136              | 1.67%                | 20%              | ----      |
| Method 29 Mercury: Fraction 1B (HF) (QC Lot: 1980325)            |                  |          |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                                    | M5/29 CSI Test 1 | Mercury  | 7439-97-6  | E521A  | 0.022                             | µg/sample | 0.068           | 0.067            | 0.002                | Diff <2x LOR     | J         |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) (QC Lot: 1973613)   |                  |          |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                                    | M5/29 CSI Test 1 | Mercury  | 7439-97-6  | E521B  | 0.75                              | µg/L      | <0.75           | <0.75            | 0                    | Diff <2x LOR     | J         |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) (QC Lot: 1973616)  |                  |          |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                                    | M5/29 CSI Test 1 | Mercury  | 7439-97-6  | E521C  | 0.15                              | µg/L      | <0.15           | <0.15            | 0                    | Diff <2x LOR     | J         |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QC Lot: 1973614)   |                  |          |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                                    | M5/29 CSI Test 1 | Mercury  | 7439-97-6  | E521D  | 0.750                             | µg/L      | 29.2            | 29.7             | 1.53%                | 20%              | ----      |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QC Lot: 1973615)   |                  |          |            |        |                                   |           |                 |                  |                      |                  |           |
| BU2500945-001                                                    | M5/29 CSI Test 1 | Mercury  | 7439-97-6  | E521E  | 0.75                              | µg/L      | 1.38            | 1.39             | 0.01                 | Diff <2x LOR     | J         |

Qualifiers

| Qualifier | Description                                                                 |
|-----------|-----------------------------------------------------------------------------|
| J         | Duplicate results and limits are expressed in terms of absolute difference. |



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                                                    | CAS Number | Method | LOR  | Unit      | Result | Qualifier |
|------------------------------------------------------------|------------|--------|------|-----------|--------|-----------|
| <b>Particulates (QCLot: 1960801)</b>                       |            |        |      |           |        |           |
| mass, acetone [FRONT]                                      | ----       | E898A  | 0.4  | g         | 24.7   | ----      |
| <b>Particulates (QCLot: 1960802)</b>                       |            |        |      |           |        |           |
| particulate matter, acetone impinger [FRONT]               | ----       | E897A  | 0.4  | mg        | <0.4   | ----      |
| <b>Particulates (QCLot: 1961659)</b>                       |            |        |      |           |        |           |
| Particulate matter, filter                                 | ----       | E890   | 0.6  | mg        | <0.6   | ----      |
| <b>Metals (QCLot: 1980333)</b>                             |            |        |      |           |        |           |
| Arsenic                                                    | 7440-38-2  | E457B  | 0.5  | µg/sample | <0.50  | ----      |
| Barium                                                     | 7440-39-3  | E457B  | 2.5  | µg/sample | <2.5   | ----      |
| Beryllium                                                  | 7440-41-7  | E457B  | 0.1  | µg/sample | <0.10  | ----      |
| Cadmium                                                    | 7440-43-9  | E457B  | 0.05 | µg/sample | <0.050 | ----      |
| Chromium                                                   | 7440-47-3  | E457B  | 0.5  | µg/sample | <0.50  | ----      |
| Cobalt                                                     | 7440-48-4  | E457B  | 0.1  | µg/sample | <0.10  | ----      |
| Copper                                                     | 7440-50-8  | E457B  | 0.5  | µg/sample | <0.50  | ----      |
| Lead                                                       | 7439-92-1  | E457B  | 0.25 | µg/sample | <0.25  | ----      |
| Manganese                                                  | 7439-96-5  | E457B  | 0.25 | µg/sample | <0.25  | ----      |
| Nickel                                                     | 7440-02-0  | E457B  | 0.1  | µg/sample | <0.10  | ----      |
| Selenium                                                   | 7782-49-2  | E457B  | 1    | µg/sample | <1.0   | ----      |
| Silver                                                     | 7440-22-4  | E457B  | 0.1  | µg/sample | <0.10  | ----      |
| Thallium                                                   | 7440-28-0  | E457B  | 0.1  | µg/sample | <0.10  | ----      |
| Zinc                                                       | 7440-66-6  | E457B  | 3    | µg/sample | <3.0   | ----      |
| <b>Method 29 Metals: Fraction 1A (HF) (QCLot: 1980324)</b> |            |        |      |           |        |           |
| Arsenic                                                    | 7440-38-2  | E457A  | 1    | µg/sample | <1.0   | ----      |
| Barium                                                     | 7440-39-3  | E457A  | 5    | µg/sample | <5.0   | ----      |
| Beryllium                                                  | 7440-41-7  | E457A  | 0.2  | µg/sample | <0.20  | ----      |
| Cadmium                                                    | 7440-43-9  | E457A  | 0.1  | µg/sample | <0.10  | ----      |
| Chromium                                                   | 7440-47-3  | E457A  | 1    | µg/sample | <1.0   | ----      |
| Cobalt                                                     | 7440-48-4  | E457A  | 0.2  | µg/sample | <0.20  | ----      |
| Copper                                                     | 7440-50-8  | E457A  | 1    | µg/sample | <1.0   | ----      |
| Lead                                                       | 7439-92-1  | E457A  | 0.5  | µg/sample | <0.50  | ----      |
| Manganese                                                  | 7439-96-5  | E457A  | 0.5  | µg/sample | <0.50  | ----      |
| Nickel                                                     | 7440-02-0  | E457A  | 0.2  | µg/sample | # 2.35 | B         |
| Selenium                                                   | 7782-49-2  | E457A  | 2    | µg/sample | <2.0   | ----      |



Sub-Matrix: Air

| Analyte                                                         | CAS Number | Method | LOR   | Unit      | Result | Qualifier |
|-----------------------------------------------------------------|------------|--------|-------|-----------|--------|-----------|
| Method 29 Metals: Fraction 1A (HF) (QCLot: 1980324) - continued |            |        |       |           |        |           |
| Silver                                                          | 7440-22-4  | E457A  | 0.2   | µg/sample | <0.20  | ----      |
| Thallium                                                        | 7440-28-0  | E457A  | 0.2   | µg/sample | <0.20  | ----      |
| Zinc                                                            | 7440-66-6  | E457A  | 6     | µg/sample | <6.0   | ----      |
| Method 29 Mercury: Fraction 1B (HF) (QCLot: 1980325)            |            |        |       |           |        |           |
| Mercury                                                         | 7439-97-6  | E521A  | 0.022 | µg/sample | <0.022 | ----      |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) (QCLot: 1973613)   |            |        |       |           |        |           |
| Mercury                                                         | 7439-97-6  | E521B  | 0.75  | µg/L      | <0.75  | ----      |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4) (QCLot: 1973616)   |            |        |       |           |        |           |
| Mercury                                                         | 7439-97-6  | E521C  | 0.15  | µg/L      | <0.15  | ----      |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QCLot: 1973614)   |            |        |       |           |        |           |
| Mercury                                                         | 7439-97-6  | E521D  | 0.075 | µg/L      | <0.075 | ----      |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QCLot: 1973615)   |            |        |       |           |        |           |
| Mercury                                                         | 7439-97-6  | E521E  | 0.75  | µg/L      | <0.75  | ----      |

Qualifiers

| Qualifier | Description                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| B         | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                                      |            |        |       |           | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|------------------------------------------------------|------------|--------|-------|-----------|----------------------------------------|--------------|---------------------|------|-----------|
|                                                      |            |        |       |           | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                              | CAS Number | Method | LOR   | Unit      | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Metals (QCLot: 1980333)                              |            |        |       |           |                                        |              |                     |      |           |
| Arsenic                                              | 7440-38-2  | E457B  | 0.5   | µg/sample | 100 µg/sample                          | 98.4         | 80.0                | 120  | ----      |
| Barium                                               | 7440-39-3  | E457B  | 2.5   | µg/sample | 25 µg/sample                           | 95.2         | 80.0                | 120  | ----      |
| Beryllium                                            | 7440-41-7  | E457B  | 0.1   | µg/sample | 10 µg/sample                           | 91.4         | 80.0                | 120  | ----      |
| Cadmium                                              | 7440-43-9  | E457B  | 0.05  | µg/sample | 10 µg/sample                           | 93.7         | 80.0                | 120  | ----      |
| Chromium                                             | 7440-47-3  | E457B  | 0.5   | µg/sample | 25 µg/sample                           | 98.9         | 80.0                | 120  | ----      |
| Cobalt                                               | 7440-48-4  | E457B  | 0.1   | µg/sample | 25 µg/sample                           | 96.1         | 80.0                | 120  | ----      |
| Copper                                               | 7440-50-8  | E457B  | 0.5   | µg/sample | 25 µg/sample                           | 96.4         | 80.0                | 120  | ----      |
| Lead                                                 | 7439-92-1  | E457B  | 0.25  | µg/sample | 50 µg/sample                           | 94.4         | 80.0                | 120  | ----      |
| Manganese                                            | 7439-96-5  | E457B  | 0.25  | µg/sample | 25 µg/sample                           | 99.2         | 80.0                | 120  | ----      |
| Nickel                                               | 7440-02-0  | E457B  | 0.1   | µg/sample | 50 µg/sample                           | 94.9         | 80.0                | 120  | ----      |
| Selenium                                             | 7782-49-2  | E457B  | 1     | µg/sample | 100 µg/sample                          | 93.4         | 80.0                | 120  | ----      |
| Silver                                               | 7440-22-4  | E457B  | 0.1   | µg/sample | 10 µg/sample                           | 86.2         | 80.0                | 120  | ----      |
| Thallium                                             | 7440-28-0  | E457B  | 0.1   | µg/sample | 100 µg/sample                          | 95.6         | 80.0                | 120  | ----      |
| Zinc                                                 | 7440-66-6  | E457B  | 3     | µg/sample | 50 µg/sample                           | 95.5         | 80.0                | 120  | ----      |
| Method 29 Metals: Fraction 1A (HF) (QCLot: 1980324)  |            |        |       |           |                                        |              |                     |      |           |
| Arsenic                                              | 7440-38-2  | E457A  | 1     | µg/sample | 50 µg/sample                           | 102          | 80.0                | 120  | ----      |
| Barium                                               | 7440-39-3  | E457A  | 5     | µg/sample | 12.5 µg/sample                         | # 69.2       | 80.0                | 120  | LCS-L     |
| Beryllium                                            | 7440-41-7  | E457A  | 0.2   | µg/sample | 5 µg/sample                            | 82.1         | 80.0                | 120  | ----      |
| Cadmium                                              | 7440-43-9  | E457A  | 0.1   | µg/sample | 5 µg/sample                            | 90.5         | 80.0                | 120  | ----      |
| Chromium                                             | 7440-47-3  | E457A  | 1     | µg/sample | 12.5 µg/sample                         | # 71.3       | 80.0                | 120  | LCS-L     |
| Cobalt                                               | 7440-48-4  | E457A  | 0.2   | µg/sample | 12.5 µg/sample                         | 96.0         | 80.0                | 120  | ----      |
| Copper                                               | 7440-50-8  | E457A  | 1     | µg/sample | 12.5 µg/sample                         | 99.3         | 80.0                | 120  | ----      |
| Lead                                                 | 7439-92-1  | E457A  | 0.5   | µg/sample | 25 µg/sample                           | 92.9         | 80.0                | 120  | ----      |
| Manganese                                            | 7439-96-5  | E457A  | 0.5   | µg/sample | 12.5 µg/sample                         | # 368        | 80.0                | 120  | RRQC      |
| Nickel                                               | 7440-02-0  | E457A  | 0.2   | µg/sample | 25 µg/sample                           | 95.1         | 80.0                | 120  | ----      |
| Selenium                                             | 7782-49-2  | E457A  | 2     | µg/sample | 50 µg/sample                           | 93.3         | 80.0                | 120  | ----      |
| Silver                                               | 7440-22-4  | E457A  | 0.2   | µg/sample | 5 µg/sample                            | 83.4         | 80.0                | 120  | ----      |
| Thallium                                             | 7440-28-0  | E457A  | 0.2   | µg/sample | 50 µg/sample                           | 91.6         | 80.0                | 120  | ----      |
| Zinc                                                 | 7440-66-6  | E457A  | 6     | µg/sample | 25 µg/sample                           | 96.9         | 80.0                | 120  | ----      |
| Method 29 Mercury: Fraction 1B (HF) (QCLot: 1980325) |            |        |       |           |                                        |              |                     |      |           |
| Mercury                                              | 7439-97-6  | E521A  | 0.022 | µg/sample | 0.3 µg/sample                          | 93.8         | 90.0                | 110  | ----      |



| Sub-Matrix: Air                                               |            |        |       |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---------------------------------------------------------------|------------|--------|-------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                                                               |            |        |       |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      | Qualifier |
|                                                               |            |        |       |      | Target Concentration                   | LCS          | Low                 | High |           |
| Analyte                                                       | CAS Number | Method | LOR   | Unit | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) (QCLot: 1973613) |            |        |       |      |                                        |              |                     |      |           |
| Mercury                                                       | 7439-97-6  | E521B  | 0.75  | µg/L | 10 µg/L                                | 94.4         | 90.0                | 110  | ----      |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4) (QCLot: 1973616) |            |        |       |      |                                        |              |                     |      |           |
| Mercury                                                       | 7439-97-6  | E521C  | 0.15  | µg/L | 2 µg/L                                 | 94.0         | 90.0                | 110  | ----      |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QCLot: 1973614) |            |        |       |      |                                        |              |                     |      |           |
| Mercury                                                       | 7439-97-6  | E521D  | 0.075 | µg/L | 1 µg/L                                 | 91.4         | 90.0                | 110  | ----      |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QCLot: 1973615) |            |        |       |      |                                        |              |                     |      |           |
| Mercury                                                       | 7439-97-6  | E521E  | 0.75  | µg/L | 10 µg/L                                | 94.4         | 80.0                | 120  | ----      |

Qualifiers

| Qualifier | Description                                                                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCS-L     | Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified. |
| RRQC      | Refer to report comments for information regarding this QC result.                                                                                                                                                   |



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

| Sub-Matrix: Air                                                |                  |           |            |        | Matrix Spike (MS) Report |                |              |                     |      |           |
|----------------------------------------------------------------|------------------|-----------|------------|--------|--------------------------|----------------|--------------|---------------------|------|-----------|
|                                                                |                  |           |            |        | Spike                    |                | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                                           | Client sample ID | Analyte   | CAS Number | Method | Concentration            | Target         | MS           | Low                 | High | Qualifier |
| Metals (QCLot: 1980333)                                        |                  |           |            |        |                          |                |              |                     |      |           |
| BU2500945-001                                                  | M5/29 CSI Test 1 | Arsenic   | 7440-38-2  | E457B  | 104 µg/sample            | 100 µg/sample  | 104          | 80.0                | 120  | ----      |
|                                                                |                  | Barium    | 7440-39-3  | E457B  | 23.7 µg/sample           | 25 µg/sample   | 94.8         | 80.0                | 120  | ----      |
|                                                                |                  | Beryllium | 7440-41-7  | E457B  | 9.41 µg/sample           | 10 µg/sample   | 94.1         | 80.0                | 120  | ----      |
|                                                                |                  | Cadmium   | 7440-43-9  | E457B  | 9.79 µg/sample           | 10 µg/sample   | 97.9         | 80.0                | 120  | ----      |
|                                                                |                  | Chromium  | 7440-47-3  | E457B  | 25.3 µg/sample           | 25 µg/sample   | 101          | 80.0                | 120  | ----      |
|                                                                |                  | Cobalt    | 7440-48-4  | E457B  | 24.6 µg/sample           | 25 µg/sample   | 98.5         | 80.0                | 120  | ----      |
|                                                                |                  | Copper    | 7440-50-8  | E457B  | 25.1 µg/sample           | 25 µg/sample   | 100          | 80.0                | 120  | ----      |
|                                                                |                  | Lead      | 7439-92-1  | E457B  | 49.0 µg/sample           | 50 µg/sample   | 97.9         | 80.0                | 120  | ----      |
|                                                                |                  | Manganese | 7439-96-5  | E457B  | 24.8 µg/sample           | 25 µg/sample   | 99.4         | 80.0                | 120  | ----      |
|                                                                |                  | Nickel    | 7440-02-0  | E457B  | 49.2 µg/sample           | 50 µg/sample   | 98.5         | 80.0                | 120  | ----      |
|                                                                |                  | Selenium  | 7782-49-2  | E457B  | 120 µg/sample            | 100 µg/sample  | 120          | 80.0                | 120  | ----      |
|                                                                |                  | Silver    | 7440-22-4  | E457B  | 8.67 µg/sample           | 10 µg/sample   | 86.7         | 80.0                | 120  | ----      |
|                                                                |                  | Thallium  | 7440-28-0  | E457B  | 95.2 µg/sample           | 100 µg/sample  | 95.2         | 80.0                | 120  | ----      |
|                                                                |                  | Zinc      | 7440-66-6  | E457B  | 49.6 µg/sample           | 50 µg/sample   | 99.3         | 80.0                | 120  | ----      |
| Method 29 Metals: Fraction 1A (HF) (QCLot: 1980324)            |                  |           |            |        |                          |                |              |                     |      |           |
| BU2500945-001                                                  | M5/29 CSI Test 1 | Arsenic   | 7440-38-2  | E457A  | 51.2 µg/sample           | 50 µg/sample   | 102          | 80.0                | 120  | ----      |
|                                                                |                  | Barium    | 7440-39-3  | E457A  | ND µg/sample             | ----           | ND           | 80.0                | 120  | ----      |
|                                                                |                  | Beryllium | 7440-41-7  | E457A  | 4.58 µg/sample           | 5 µg/sample    | 91.6         | 80.0                | 120  | ----      |
|                                                                |                  | Cadmium   | 7440-43-9  | E457A  | 4.94 µg/sample           | 5 µg/sample    | 98.8         | 80.0                | 120  | ----      |
|                                                                |                  | Chromium  | 7440-47-3  | E457A  | ND µg/sample             | ----           | ND           | 80.0                | 120  | ----      |
|                                                                |                  | Cobalt    | 7440-48-4  | E457A  | 12.0 µg/sample           | 12.5 µg/sample | 96.4         | 80.0                | 120  | ----      |
|                                                                |                  | Copper    | 7440-50-8  | E457A  | 11.8 µg/sample           | 12.5 µg/sample | 94.7         | 80.0                | 120  | ----      |
|                                                                |                  | Lead      | 7439-92-1  | E457A  | ND µg/sample             | ----           | ND           | 80.0                | 120  | ----      |
|                                                                |                  | Manganese | 7439-96-5  | E457A  | ND µg/sample             | ----           | ND           | 80.0                | 120  | ----      |
|                                                                |                  | Nickel    | 7440-02-0  | E457A  | 23.8 µg/sample           | 25 µg/sample   | 95.2         | 80.0                | 120  | ----      |
|                                                                |                  | Selenium  | 7782-49-2  | E457A  | 49.1 µg/sample           | 50 µg/sample   | 98.3         | 80.0                | 120  | ----      |
|                                                                |                  | Silver    | 7440-22-4  | E457A  | 4.47 µg/sample           | 5 µg/sample    | 89.4         | 80.0                | 120  | ----      |
|                                                                |                  | Thallium  | 7440-28-0  | E457A  | 48.2 µg/sample           | 50 µg/sample   | 96.4         | 80.0                | 120  | ----      |
|                                                                |                  | Zinc      | 7440-66-6  | E457A  | ND µg/sample             | ----           | ND           | 80.0                | 120  | ----      |
| Method 29 Mercury: Fraction 1B (HF) (QCLot: 1980325)           |                  |           |            |        |                          |                |              |                     |      |           |
| BU2500945-001                                                  | M5/29 CSI Test 1 | Mercury   | 7439-97-6  | E521A  | 0.256 µg/sample          | 0.3 µg/sample  | 85.5         | 75.0                | 125  | ----      |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) (QCLot: 1973613)  |                  |           |            |        |                          |                |              |                     |      |           |
| BU2500945-001                                                  | M5/29 CSI Test 1 | Mercury   | 7439-97-6  | E521B  | 9.39 µg/L                | 10 µg/L        | 93.9         | 75.0                | 125  | ----      |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4)) (QCLot: 1973616) |                  |           |            |        |                          |                |              |                     |      |           |
| BU2500945-001                                                  | M5/29 CSI Test 1 | Mercury   | 7439-97-6  | E521C  | 1.77 µg/L                | 2 µg/L         | 88.6         | 75.0                | 125  | ----      |



| Sub-Matrix: Air                                               |                  |         |            |        | Matrix Spike (MS) Report |         |              |                     |      |           |
|---------------------------------------------------------------|------------------|---------|------------|--------|--------------------------|---------|--------------|---------------------|------|-----------|
|                                                               |                  |         |            |        | Spike                    |         | Recovery (%) | Recovery Limits (%) |      |           |
| Laboratory sample ID                                          | Client sample ID | Analyte | CAS Number | Method | Concentration            | Target  | MS           | Low                 | High | Qualifier |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QCLot: 1973614) |                  |         |            |        |                          |         |              |                     |      |           |
| BU2500945-001                                                 | M5/29 CSI Test 1 | Mercury | 7439-97-6  | E521D  | ND µg/L                  | ----    | ND           | 80.0                | 120  | ----      |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QCLot: 1973615) |                  |         |            |        |                          |         |              |                     |      |           |
| BU2500945-001                                                 | M5/29 CSI Test 1 | Mercury | 7439-97-6  | E521E  | 9.09 µg/L                | 10 µg/L | 90.9         | 80.0                | 120  | ----      |



Matrix Spike Duplicate (MSD) Report

A Matrix Spike Duplicate (MSD) is a duplicate of a Matrix Spike (MS), which has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples . Matrix Spike Duplicates provide information regarding method precision. ALS DQOs for Matrix Spike Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD).

| Sub-Matrix: Air                                       |                  |           |            |        | Matrix Spike Duplicate (MSD) Report |           |                 |            |                      |              |           |
|-------------------------------------------------------|------------------|-----------|------------|--------|-------------------------------------|-----------|-----------------|------------|----------------------|--------------|-----------|
| Laboratory sample ID                                  | Client sample ID | Analyte   | CAS Number | Method | LOR                                 | Unit      | Original Result | MSD Result | RPD(%) or Difference | MSD Limits   | Qualifier |
| Metals (QC Lot: 1980333)                              |                  |           |            |        |                                     |           |                 |            |                      |              |           |
| QC-198033-005                                         |                  | Arsenic   | 7440-38-2  | E457B  | 0.50                                | µg/sample | 104             | 107        | 2.84%                | 20%          | ----      |
|                                                       |                  | Barium    | 7440-39-3  | E457B  | 2.5                                 | µg/sample | 25.3            | 25.6       | 1.26%                | 20%          | ----      |
|                                                       |                  | Beryllium | 7440-41-7  | E457B  | 0.10                                | µg/sample | 9.39            | 9.63       | 2.52%                | 20%          | ----      |
|                                                       |                  | Cadmium   | 7440-43-9  | E457B  | 0.050                               | µg/sample | 9.88            | 9.98       | 1.02%                | 20%          | ----      |
|                                                       |                  | Chromium  | 7440-47-3  | E457B  | 0.50                                | µg/sample | 26.0            | 26.6       | 2.93%                | 20%          | ----      |
|                                                       |                  | Cobalt    | 7440-48-4  | E457B  | 0.10                                | µg/sample | 24.7            | 25.3       | 2.51%                | 20%          | ----      |
|                                                       |                  | Copper    | 7440-50-8  | E457B  | 0.50                                | µg/sample | 33.5            | 34.3       | 3.92%                | 20%          | ----      |
|                                                       |                  | Lead      | 7439-92-1  | E457B  | 0.25                                | µg/sample | 53.5            | 55.2       | 3.12%                | 20%          | ----      |
|                                                       |                  | Manganese | 7439-96-5  | E457B  | 0.25                                | µg/sample | 37.6            | 38.2       | 2.58%                | 20%          | ----      |
|                                                       |                  | Nickel    | 7440-02-0  | E457B  | 0.10                                | µg/sample | 50.4            | 51.7       | 2.51%                | 20%          | ----      |
|                                                       |                  | Selenium  | 7782-49-2  | E457B  | 1.0                                 | µg/sample | 121             | 132        | 8.76%                | 20%          | K         |
|                                                       |                  | Silver    | 7440-22-4  | E457B  | 0.10                                | µg/sample | 8.69            | 8.89       | 2.28%                | 20%          | ----      |
|                                                       |                  | Thallium  | 7440-28-0  | E457B  | 0.10                                | µg/sample | 96.6            | 98.6       | 2.18%                | 20%          | ----      |
|                                                       |                  | Zinc      | 7440-66-6  | E457B  | 3.0                                 | µg/sample | 61.9            | 63.4       | 2.68%                | 20%          | ----      |
| Method 29 Metals: Fraction 1A (HF) (QC Lot: 1980324)  |                  |           |            |        |                                     |           |                 |            |                      |              |           |
| QC-MRG2-1-005                                         |                  | Arsenic   | 7440-38-2  | E457A  | 1.0                                 | µg/sample | 52.3            | 52.2       | 0.00%                | 20%          | ----      |
|                                                       |                  | Barium    | 7440-39-3  | E457A  | 5.0                                 | µg/sample | 39.9            | 39.2       | ----%                | Diff <2x LOR | ----      |
|                                                       |                  | Beryllium | 7440-41-7  | E457A  | 0.20                                | µg/sample | 4.58            | 4.76       | 3.96%                | 20%          | ----      |
|                                                       |                  | Cadmium   | 7440-43-9  | E457A  | 0.10                                | µg/sample | 6.22            | 5.94       | 5.83%                | 20%          | ----      |
|                                                       |                  | Chromium  | 7440-47-3  | E457A  | 1.0                                 | µg/sample | 68.2            | 66.4       | ----%                | Diff <2x LOR | ----      |
|                                                       |                  | Cobalt    | 7440-48-4  | E457A  | 0.20                                | µg/sample | 13.2            | 13.1       | 1.04%                | 20%          | ----      |
|                                                       |                  | Copper    | 7440-50-8  | E457A  | 1.0                                 | µg/sample | 19.6            | 19.5       | 0.848%               | 20%          | ----      |
|                                                       |                  | Lead      | 7439-92-1  | E457A  | 0.50                                | µg/sample | 66.0            | 65.5       | ----%                | Diff <2x LOR | ----      |
|                                                       |                  | Manganese | 7439-96-5  | E457A  | 0.50                                | µg/sample | 120             | 118        | ----%                | Diff <2x LOR | ----      |
|                                                       |                  | Nickel    | 7440-02-0  | E457A  | 0.20                                | µg/sample | 41.9            | 41.0       | 3.74%                | 20%          | ----      |
|                                                       |                  | Selenium  | 7782-49-2  | E457A  | 2.0                                 | µg/sample | 50.1            | 52.0       | 3.69%                | 20%          | ----      |
|                                                       |                  | Silver    | 7440-22-4  | E457A  | 0.20                                | µg/sample | 5.23            | 5.20       | 0.786%               | 20%          | ----      |
|                                                       |                  | Thallium  | 7440-28-0  | E457A  | 0.20                                | µg/sample | 64.5            | 65.9       | 2.76%                | 20%          | ----      |
|                                                       |                  | Zinc      | 7440-66-6  | E457A  | 6.0                                 | µg/sample | 160             | 157        | ----%                | Diff <2x LOR | ----      |
| Method 29 Mercury: Fraction 1B (HF) (QC Lot: 1980325) |                  |           |            |        |                                     |           |                 |            |                      |              |           |
| QC-MRG2-1-005                                         |                  | Mercury   | 7439-97-6  | E521A  | 0.022                               | µg/sample | 0.325           | 0.324      | 0.117%               | 20%          | ----      |



| Sub-Matrix: Air                                                |                  |         |            |        | Matrix Spike Duplicate (MSD) Report |      |                 |            |                      |              |           |
|----------------------------------------------------------------|------------------|---------|------------|--------|-------------------------------------|------|-----------------|------------|----------------------|--------------|-----------|
| Laboratory sample ID                                           | Client sample ID | Analyte | CAS Number | Method | LOR                                 | Unit | Original Result | MSD Result | RPD(%) or Difference | MSD Limits   | Qualifier |
| Method 29 Mercury: Fraction 2B (KMnO4/H2SO4) (QC Lot: 1973613) |                  |         |            |        |                                     |      |                 |            |                      |              |           |
| QC-197361-005                                                  |                  | Mercury | 7439-97-6  | E521B  | 0.75                                | µg/L | 9.94            | 9.88       | 0.641%               | 20%          | ----      |
| Method 29 Mercury: Fraction 3A (KMnO4/H2SO4) (QC Lot: 1973616) |                  |         |            |        |                                     |      |                 |            |                      |              |           |
| QC-197361-005                                                  |                  | Mercury | 7439-97-6  | E521C  | 0.15                                | µg/L | 1.88            | 1.90       | 1.01%                | 20%          | ----      |
| Method 29 Mercury: Fraction 3B (KMnO4/H2SO4) (QC Lot: 1973614) |                  |         |            |        |                                     |      |                 |            |                      |              |           |
| QC-197361-005                                                  |                  | Mercury | 7439-97-6  | E521D  | 0.750                               | µg/L | 38.4            | 38.7       | ----%                | Diff <2x LOR | ----      |
| Method 29 Mercury: Fraction 3C (KMnO4/H2SO4) (QC Lot: 1973615) |                  |         |            |        |                                     |      |                 |            |                      |              |           |
| QC-197361-005                                                  |                  | Mercury | 7439-97-6  | E521E  | 0.75                                | µg/L | 10.5            | 10.4       | 0.441%               | 20%          | ----      |

Qualifiers

| Qualifier | Description                                                         |
|-----------|---------------------------------------------------------------------|
| K         | Matrix Spike recovery outside ALS DQO due to sample matrix effects. |



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**CERTIFICATE OF ANALYSIS**

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|                                |                                                        |                                |                                                              |
|--------------------------------|--------------------------------------------------------|--------------------------------|--------------------------------------------------------------|
| <b>Work Order</b>              | : <b>BU2500944</b>                                     |                                |                                                              |
| <b>Client</b>                  | : <b>RWDI Air Inc.</b>                                 | <b>Laboratory</b>              | : ALS Environmental - Burlington                             |
| <b>Contact</b>                 | : Oluwatobi Odumoye                                    | <b>Account Manager</b>         | : Robert Chin                                                |
| <b>Address</b>                 | : 600 Southgate Drive<br>Guelph Ontario Canada N1G 4P6 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington ON Canada L7L 0E6 |
| <b>Telephone</b>               | : 519 823 1311                                         | <b>Telephone</b>               | : +1 905 331 3111                                            |
| <b>Project</b>                 | : 2509873 SMC St. Mary's                               | <b>Date Samples Received</b>   | : 15-Apr-2025 11:35                                          |
| <b>PO</b>                      | : 2509873                                              | <b>Date Analysis Commenced</b> | : 16-Apr-2025                                                |
| <b>C-O-C number</b>            | : ----                                                 | <b>Issue Date</b>              | : 24-Apr-2025 12:42                                          |
| <b>Sampler</b>                 | : Adam Tran                                            |                                |                                                              |
| <b>Site</b>                    | : ----                                                 |                                |                                                              |
| <b>Quote number</b>            | : SMC St Marys                                         |                                |                                                              |
| <b>No. of samples received</b> | : 8                                                    |                                |                                                              |
| <b>No. of samples analysed</b> | : 8                                                    |                                |                                                              |

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This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

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**Signatories**

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>      | <i>Laboratory Department</i>    |
|--------------------|----------------------|---------------------------------|
| Gamini Nadu        | Analyst              | Inorganics, Burlington, Ontario |
| Milithza Silva     | Manager - Inorganics | Inorganics, Burlington, Ontario |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit      | Description           |
|-----------|-----------------------|
| L         | litres                |
| mg/L      | milligrams per litre  |
| mg/sample | milligrams per sample |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                |            |            |        |           | Client sample ID            | M26 H2SO4 Test 1  | M26 H2SO4 Test 2  | M26 H2SO4 Test 3  | M26 H2SO4 Blank   | M26 NaOH Test 1   |
|--------------------------------|------------|------------|--------|-----------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                |            |            |        |           | Client sampling date / time | 09-Apr-2025 00:00 | 09-Apr-2025 00:00 | 09-Apr-2025 00:00 | 09-Apr-2025 00:00 | 09-Apr-2025 00:00 |
| Analyte                        | CAS Number | Method/Lab | LOR    | Unit      |                             | BU2500944-001     | BU2500944-002     | BU2500944-003     | BU2500944-004     | BU2500944-005     |
|                                |            |            |        |           |                             | Result            | Result            | Result            | Result            | Result            |
| <b>Physical Tests</b>          |            |            |        |           |                             |                   |                   |                   |                   |                   |
| Volume, impinger               | n/a        | EF003.I/BU | 0.0010 | L         |                             | 0.0540            | 0.0520            | 0.0520            | 0.0440            | 0.0280            |
| <b>Inorganics</b>              |            |            |        |           |                             |                   |                   |                   |                   |                   |
| Ammonia (as NH3)               | 8013-59-0  | E253/BU    | 0.470  | mg/L      |                             | 16.8              | 16.8              | 19.7              | <0.472            | ----              |
| Ammonia, total (as NH3)        | 7664-41-7  | EC253/BU   | 0.020  | mg/sample |                             | 0.907             | 0.874             | 1.02              | <0.020            | ----              |
| Chloride, average              | 16887-00-6 | E252/BU    | 0.47   | mg/L      |                             | 7.82              | 15.2              | 17.3              | <0.47             | 2.42              |
| Chloride, replicate 1          | 16887-00-6 | E252/BU    | 0.47   | mg/L      |                             | 7.80              | 15.2              | 17.3              | <0.47             | 2.43              |
| Chloride, replicate 2          | 16887-00-6 | E252/BU    | 0.47   | mg/L      |                             | 7.83              | 15.2              | 17.3              | <0.47             | 2.40              |
| Hydrogen chloride, average     | 7647-01-0  | EC252/BU   | 0.015  | mg/sample |                             | 0.434             | 0.811             | 0.926             | <0.021            | ----              |
| Hydrogen chloride, replicate 1 | 7647-01-0  | EC252/BU   | 0.015  | mg/sample |                             | 0.433             | 0.811             | 0.926             | <0.021            | ----              |
| Hydrogen chloride, replicate 2 | 7647-01-0  | EC252/BU   | 0.015  | mg/sample |                             | 0.435             | 0.811             | 0.926             | <0.021            | ----              |
| Chlorine, average              | 7782-50-5  | EC252/BU   | 0.014  | mg/sample |                             | ----              | ----              | ----              | ----              | 0.068             |
| Chlorine, replicate 1          | 7782-50-5  | EC252/BU   | 0.014  | mg/sample |                             | ----              | ----              | ----              | ----              | 0.068             |
| Chlorine, replicate 2          | 7782-50-5  | EC252/BU   | 0.014  | mg/sample |                             | ----              | ----              | ----              | ----              | 0.067             |

Please refer to the General Comments section for an explanation of any result qualifiers detected.



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                       |            |            |        |           | Client sample ID            | M26 NaOH Test 2   | M26 NaOH Test 3   | M26 NaOH Blank    | ---- | ---- |
|-----------------------|------------|------------|--------|-----------|-----------------------------|-------------------|-------------------|-------------------|------|------|
|                       |            |            |        |           | Client sampling date / time | 09-Apr-2025 00:00 | 09-Apr-2025 00:00 | 09-Apr-2025 00:00 | ---- | ---- |
| Analyte               | CAS Number | Method/Lab | LOR    | Unit      | BU2500944-006               | BU2500944-007     | BU2500944-008     | ----              | ---- | ---- |
|                       |            |            |        |           | Result                      | Result            | Result            | ----              | ---- | ---- |
| Physical Tests        |            |            |        |           |                             |                   |                   |                   |      |      |
| Volume, impinger      | n/a        | EF003.I/BU | 0.0010 | L         | 0.0460                      | 0.0350            | 0.0380            | ----              | ---- | ---- |
| Inorganics            |            |            |        |           |                             |                   |                   |                   |      |      |
| Chloride, average     | 16887-00-6 | E252/BU    | 0.47   | mg/L      | 1.92                        | 0.78              | 0.48              | ----              | ---- | ---- |
| Chloride, replicate 1 | 16887-00-6 | E252/BU    | 0.47   | mg/L      | 1.91                        | 0.77              | 0.49              | ----              | ---- | ---- |
| Chloride, replicate 2 | 16887-00-6 | E252/BU    | 0.47   | mg/L      | 1.94                        | 0.79              | 0.48              | ----              | ---- | ---- |
| Chlorine, average     | 7782-50-5  | EC252/BU   | 0.014  | mg/sample | 0.088                       | 0.028             | 0.018             | ----              | ---- | ---- |
| Chlorine, replicate 1 | 7782-50-5  | EC252/BU   | 0.014  | mg/sample | 0.088                       | 0.027             | 0.019             | ----              | ---- | ---- |
| Chlorine, replicate 2 | 7782-50-5  | EC252/BU   | 0.014  | mg/sample | 0.089                       | 0.028             | 0.018             | ----              | ---- | ---- |

Please refer to the General Comments section for an explanation of any result qualifiers detected.

## QUALITY CONTROL INTERPRETIVE REPORT

|                         |                                                   |                       |                                                                    |
|-------------------------|---------------------------------------------------|-----------------------|--------------------------------------------------------------------|
| Work Order              | : <b>BU2500944</b>                                | Page                  | : 1 of 7                                                           |
| Client                  | : <b>RWDI Air Inc.</b>                            | Laboratory            | : ALS Environmental - Burlington                                   |
| Contact                 | : Oluwatobi Odumoye                               | Account Manager       | : Robert Chin                                                      |
| Address                 | : 600 Southgate Drive<br>Guelph ON Canada N1G 4P6 | Address               | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| Telephone               | : 519 823 1311                                    | Telephone             | : +1 905 331 3111                                                  |
| Project                 | : 2509873 SMC St. Mary's                          | Date Samples Received | : 15-Apr-2025 11:35                                                |
| PO                      | : 2509873                                         | Issue Date            | : 24-Apr-2025 12:42                                                |
| C-O-C number            | : ----                                            |                       |                                                                    |
| Sampler                 | : Adam Tran                                       |                       |                                                                    |
| Site                    | :                                                 |                       |                                                                    |
| Quote number            | : SMC St Marys                                    |                       |                                                                    |
| No. of samples received | : 8                                               |                       |                                                                    |
| No. of samples analysed | : 8                                               |                       |                                                                    |

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

### Key

**Anonymous:** Refers to samples which are not part of this work order, but which formed part of the QC process lot.

**CAS Number:** Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

**DQO:** Data Quality Objective.

**LOR:** Limit of Reporting (detection limit).

**RPD:** Relative Percent Difference.

### **Workorder Comments**

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### **Summary of Outliers**

#### **Outliers : Quality Control Samples**

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

#### **Outliers: Reference Material (RM) Samples**

- No Reference Material (RM) Sample outliers occur.

### ***Outliers : Analysis Holding Time Compliance (Breaches)***

- No Analysis Holding Time Outliers exist.

### ***Outliers : Frequency of Quality Control Samples***

- No Quality Control Sample Frequency Outliers occur.



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|----------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                      |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                      |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Inorganics : Ammonia by IC (CTM-027)                                 |        |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Blank                   | E253   | 09-Apr-2025   | 16-Apr-2025              | 14 days       | 7 days  | ✓    | 16-Apr-2025   | 14 days       | 7 days  | ✓    |
| Inorganics : Ammonia by IC (CTM-027)                                 |        |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 1                  | E253   | 09-Apr-2025   | 16-Apr-2025              | 14 days       | 7 days  | ✓    | 16-Apr-2025   | 14 days       | 7 days  | ✓    |
| Inorganics : Ammonia by IC (CTM-027)                                 |        |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 2                  | E253   | 09-Apr-2025   | 16-Apr-2025              | 14 days       | 7 days  | ✓    | 16-Apr-2025   | 14 days       | 7 days  | ✓    |
| Inorganics : Ammonia by IC (CTM-027)                                 |        |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 3                  | E253   | 09-Apr-2025   | 16-Apr-2025              | 14 days       | 7 days  | ✓    | 16-Apr-2025   | 14 days       | 7 days  | ✓    |
| Inorganics : Ion Chromatography Analysis (M26/26A Anions)            |        |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Blank                   | E252   | 09-Apr-2025   | 22-Apr-2025              | 28 days       | 14 days | ✓    | 22-Apr-2025   | 28 days       | 14 days | ✓    |
| Inorganics : Ion Chromatography Analysis (M26/26A Anions)            |        |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 1                  | E252   | 09-Apr-2025   | 22-Apr-2025              | 28 days       | 14 days | ✓    | 22-Apr-2025   | 28 days       | 14 days | ✓    |
| Inorganics : Ion Chromatography Analysis (M26/26A Anions)            |        |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 2                  | E252   | 09-Apr-2025   | 22-Apr-2025              | 28 days       | 14 days | ✓    | 22-Apr-2025   | 28 days       | 14 days | ✓    |

Page : 4 of 7  
 Work Order : BU2500944  
 Client : RWDI Air Inc.  
 Project : 2509873 SMC St. Mary's



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method  | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|----------------------------------------------------------------------|---------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                      |         |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                      |         |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Inorganics : Ion Chromatography Analysis (M26/26A Anions)            |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 3                  | E252    | 09-Apr-2025   | 22-Apr-2025              | 28 days       | 14 days | ✓    | 22-Apr-2025   | 28 days       | 14 days | ✓    |
| Inorganics : Ion Chromatography Analysis (M26/26A Anions)            |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1 NaOH, sodium thiosulfate)<br>M26 NaOH Blank  | E252    | 09-Apr-2025   | 22-Apr-2025              | 28 days       | 14 days | ✓    | 22-Apr-2025   | 28 days       | 14 days | ✓    |
| Inorganics : Ion Chromatography Analysis (M26/26A Anions)            |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1 NaOH, sodium thiosulfate)<br>M26 NaOH Test 1 | E252    | 09-Apr-2025   | 22-Apr-2025              | 28 days       | 14 days | ✓    | 22-Apr-2025   | 28 days       | 14 days | ✓    |
| Inorganics : Ion Chromatography Analysis (M26/26A Anions)            |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1 NaOH, sodium thiosulfate)<br>M26 NaOH Test 2 | E252    | 09-Apr-2025   | 22-Apr-2025              | 28 days       | 14 days | ✓    | 22-Apr-2025   | 28 days       | 14 days | ✓    |
| Inorganics : Ion Chromatography Analysis (M26/26A Anions)            |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1 NaOH, sodium thiosulfate)<br>M26 NaOH Test 3 | E252    | 09-Apr-2025   | 22-Apr-2025              | 28 days       | 14 days | ✓    | 22-Apr-2025   | 28 days       | 14 days | ✓    |
| Physical Tests : Stack Emission Impinger volume (L)                  |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Blank                   | EF003.I | 09-Apr-2025   | ----                     | ----          | ----    |      | 16-Apr-2025   | ----          | ----    |      |
| Physical Tests : Stack Emission Impinger volume (L)                  |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 1                  | EF003.I | 09-Apr-2025   | ----                     | ----          | ----    |      | 16-Apr-2025   | ----          | ----    |      |
| Physical Tests : Stack Emission Impinger volume (L)                  |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 2                  | EF003.I | 09-Apr-2025   | ----                     | ----          | ----    |      | 16-Apr-2025   | ----          | ----    |      |
| Physical Tests : Stack Emission Impinger volume (L)                  |         |               |                          |               |         |      |               |               |         |      |
| M26/A: Amber Glass (0.1N H2SO4)<br>M26 H2SO4 Test 3                  | EF003.I | 09-Apr-2025   | ----                     | ----          | ----    |      | 16-Apr-2025   | ----          | ----    |      |

Page : 5 of 7  
 Work Order : BU2500944  
 Client : RWDI Air Inc.  
 Project : 2509873 SMC St. Mary's



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method  | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|----------------------------------------------------------------------|---------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|                                                                      |         |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                                                      |         |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Physical Tests : Stack Emission Impinger volume (L)                  |         |               |                          |               |        |      |               |               |        |      |
| M26/A: Amber Glass (0.1 NaOH, sodium thiosulfate)<br>M26 NaOH Blank  | EF003.I | 09-Apr-2025   | ----                     | ----          | ----   |      | 16-Apr-2025   | ----          | ----   |      |
| Physical Tests : Stack Emission Impinger volume (L)                  |         |               |                          |               |        |      |               |               |        |      |
| M26/A: Amber Glass (0.1 NaOH, sodium thiosulfate)<br>M26 NaOH Test 1 | EF003.I | 09-Apr-2025   | ----                     | ----          | ----   |      | 16-Apr-2025   | ----          | ----   |      |
| Physical Tests : Stack Emission Impinger volume (L)                  |         |               |                          |               |        |      |               |               |        |      |
| M26/A: Amber Glass (0.1 NaOH, sodium thiosulfate)<br>M26 NaOH Test 2 | EF003.I | 09-Apr-2025   | ----                     | ----          | ----   |      | 16-Apr-2025   | ----          | ----   |      |
| Physical Tests : Stack Emission Impinger volume (L)                  |         |               |                          |               |        |      |               |               |        |      |
| M26/A: Amber Glass (0.1 NaOH, sodium thiosulfate)<br>M26 NaOH Test 3 | EF003.I | 09-Apr-2025   | ----                     | ----          | ----   |      | 16-Apr-2025   | ----          | ----   |      |

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                  |        |          | Count |         | Frequency (%) |          |            |
|----------------------------------------------|--------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                           | Method | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| Laboratory Duplicates (DUP)                  |        |          |       |         |               |          |            |
| Ion Chromatography Analysis (M26/26A Anions) | E252   | 1960782  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Ammonia by IC (CTM-027)                      | E253   | 1953474  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Laboratory Control Samples (LCS)             |        |          |       |         |               |          |            |
| Ion Chromatography Analysis (M26/26A Anions) | E252   | 1960782  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Ammonia by IC (CTM-027)                      | E253   | 1953474  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Method Blanks (MB)                           |        |          |       |         |               |          |            |
| Ion Chromatography Analysis (M26/26A Anions) | E252   | 1960782  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Ammonia by IC (CTM-027)                      | E253   | 1953474  | 1     | 4       | 25.0          | 5.0      | ✔          |
| Matrix Spikes (MS)                           |        |          |       |         |               |          |            |
| Ion Chromatography Analysis (M26/26A Anions) | E252   | 1960782  | 1     | 8       | 12.5          | 5.0      | ✔          |
| Ammonia by IC (CTM-027)                      | E253   | 1953474  | 1     | 4       | 25.0          | 5.0      | ✔          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods                           | Method / Lab                              | Matrix | Method Reference         | Method Descriptions                                                                                                                                                                                                                 |
|----------------------------------------------|-------------------------------------------|--------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ion Chromatography Analysis (M26/26A Anions) | E252<br>ALS Environmental - Burlington    | Air    | USEPA Methods 26 and 26A | Client supplied liquid samples are split and buffered (acidic media) then sub-sampled (or sub-sampled directly for basic media) for IC analysis. Results are reported as hydrogen halides (acidic media) or halogens (basic media). |
| Ammonia by IC (CTM-027)                      | E253<br>ALS Environmental - Burlington    | Air    | EPA Method CTM-027 (mod) | Client-supplied acidic samples are sub-sampled for analysis, after a total volume is determined. Analytical results are reported as Total Ammonia, from the quantified Ammonium (NH <sub>4</sub> <sup>+</sup> ) ion.                |
| Ion Chromatography Analysis (M26/26A Anions) | EC252<br>ALS Environmental - Burlington   | Air    | unit conversion          | Convert mg/L to mg/sample                                                                                                                                                                                                           |
| Ammonia by IC (Method CTM-027)               | EC253<br>ALS Environmental - Burlington   | Air    | unit conversion          | Conversion from mg/L to mg/sample                                                                                                                                                                                                   |
| Stack Emission Impinger volume (L)           | EF003.I<br>ALS Environmental - Burlington | Air    |                          | Volume of impinger contents is measured in the laboratory for use in later calculations.                                                                                                                                            |

QUALITY CONTROL REPORT

|                         |                                                   |                         |                                                                    |
|-------------------------|---------------------------------------------------|-------------------------|--------------------------------------------------------------------|
| Work Order              | : BU2500944                                       | Page                    | : 1 of 4                                                           |
| Client                  | : RWDI Air Inc.                                   | Laboratory              | : ALS Environmental - Burlington                                   |
| Contact                 | : Oluwatobi Odumoye                               | Account Manager         | : Robert Chin                                                      |
| Address                 | : 600 Southgate Drive<br>Guelph ON Canada N1G 4P6 | Address                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| Telephone               | : 519 823 1311                                    | Telephone               | : +1 905 331 3111                                                  |
| Project                 | : 2509873 SMC St. Mary's                          | Date Samples Received   | : 15-Apr-2025 11:35                                                |
| PO                      | : 2509873                                         | Date Analysis Commenced | : 16-Apr-2025                                                      |
| C-O-C number            | : ----                                            | Issue Date              | : 24-Apr-2025 12:42                                                |
| Sampler                 | : Adam Tran                                       |                         |                                                                    |
| Site                    | :                                                 |                         |                                                                    |
| Quote number            | : SMC St Marys                                    |                         |                                                                    |
| No. of samples received | : 8                                               |                         |                                                                    |
| No. of samples analysed | : 8                                               |                         |                                                                    |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories    | Position             | Laboratory Department                      |
|----------------|----------------------|--------------------------------------------|
| Gamini Nadu    | Analyst              | Burlington Inorganics, Burlington, Ontario |
| Milithza Silva | Manager - Inorganics | Burlington Inorganics, Burlington, Ontario |



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

- Key :
- Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
  - CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
  - DQO = Data Quality Objective.
  - LOR = Limit of Reporting (detection limit).
  - RPD = Relative Percent Difference
  - # = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

| Sub-Matrix: Air              |                  |                       |            |        | Laboratory Duplicate (DUP) Report |      |                 |                  |                      |                  |           |
|------------------------------|------------------|-----------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID         | Client sample ID | Analyte               | CAS Number | Method | LOR                               | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Inorganics (QC Lot: 1953474) |                  |                       |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2500944-001                | M26 H2SO4 Test 1 | Ammonia (as NH3)      | 8013-59-0  | E253   | 0.472                             | mg/L | 16.8            | 16.7             | 0.746%               | 20%              | ----      |
| Inorganics (QC Lot: 1960782) |                  |                       |            |        |                                   |      |                 |                  |                      |                  |           |
| BU2500944-001                | M26 H2SO4 Test 1 | Chloride, average     | 16887-00-6 | E252   | 0.47                              | mg/L | 7.82            | 7.82             | 0.128%               | 20%              | ----      |
|                              |                  | Chloride, replicate 1 | 16887-00-6 | E252   | 0.47                              | mg/L | 7.80            | 7.83             | 0.288%               | 20%              | ----      |
|                              |                  | Chloride, replicate 2 | 16887-00-6 | E252   | 0.47                              | mg/L | 7.83            | 7.82             | 0.165%               | 20%              | ----      |



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                     | CAS Number | Method | LOR  | Unit | Result | Qualifier |
|-----------------------------|------------|--------|------|------|--------|-----------|
| Inorganics (QCLot: 1953474) |            |        |      |      |        |           |
| Ammonia (as NH3)            | 8013-59-0  | E253   | 0.47 | mg/L | <0.472 | ----      |
| Inorganics (QCLot: 1960782) |            |        |      |      |        |           |
| Chloride, average           | 16887-00-6 | E252   | 0.47 | mg/L | <0.47  | ----      |
| Chloride, replicate 1       | 16887-00-6 | E252   | 0.47 | mg/L | <0.47  | ----      |
| Chloride, replicate 2       | 16887-00-6 | E252   | 0.47 | mg/L | <0.47  | ----      |

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                             |            |        |      |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|-----------------------------|------------|--------|------|------|----------------------------------------|--------------|---------------------|------|-----------|
|                             |            |        |      |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                     | CAS Number | Method | LOR  | Unit | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Inorganics (QCLot: 1953474) |            |        |      |      |                                        |              |                     |      |           |
| Ammonia (as NH3)            | 8013-59-0  | E253   | 0.47 | mg/L | 9.44 mg/L                              | 105          | 90.0                | 110  | ----      |
| Inorganics (QCLot: 1960782) |            |        |      |      |                                        |              |                     |      |           |
| Chloride, average           | 16887-00-6 | E252   | 0.47 | mg/L | 15 mg/L                                | 101          | 90.0                | 110  | ----      |
| Chloride, replicate 1       | 16887-00-6 | E252   | 0.47 | mg/L | 15 mg/L                                | 99.3         | 90.0                | 110  | ----      |
| Chloride, replicate 2       | 16887-00-6 | E252   | 0.47 | mg/L | 15 mg/L                                | 102          | 90.0                | 110  | ----      |

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Air

|                             |                  |                       |            |        | Matrix Spike (MS) Report |         |              |                     |      |
|-----------------------------|------------------|-----------------------|------------|--------|--------------------------|---------|--------------|---------------------|------|
|                             |                  |                       |            |        | Spike                    |         | Recovery (%) | Recovery Limits (%) |      |
| Laboratory sample ID        | Client sample ID | Analyte               | CAS Number | Method | Concentration            | Target  | MS           | Low                 | High |
| Inorganics (QCLot: 1953474) |                  |                       |            |        |                          |         |              |                     |      |
| BU2500944-001               | M26 H2SO4 Test 1 | Ammonia (as NH3)      | 8013-59-0  | E253   | ND mg/L                  | ----    | ND           | 85.0                | 115  |
| Inorganics (QCLot: 1960782) |                  |                       |            |        |                          |         |              |                     |      |
| BU2500944-001               | M26 H2SO4 Test 1 | Chloride, average     | 16887-00-6 | E252   | 16.1 mg/L                | 15 mg/L | 108          | 90.0                | 110  |
|                             |                  | Chloride, replicate 1 | 16887-00-6 | E252   | 16.2 mg/L                | 15 mg/L | 108          | 90.0                | 110  |
|                             |                  | Chloride, replicate 2 | 16887-00-6 | E252   | 16.1 mg/L                | 15 mg/L | 107          | 90.0                | 110  |



| Report To                                                                                                                |                                                                       |              |                  | Report Format / Distribution                                                                                                                    |                 |              |              | Service Requested                                                                   |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|--------------|-------------------------------------------------------------------------------------|---------|------------------------------|------------|-------------|------------|--|--|--|--|--|----------------------------|----------------------|----------------------|
| Company:                                                                                                                 | RWDI                                                                  |              |                  | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other:                                                                    |                 |              |              | <input checked="" type="checkbox"/> Regular Service                                 |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Contact:                                                                                                                 | Tobi Odumoye                                                          |              |                  | <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax |                 |              |              | <input type="checkbox"/> Rush Service (with prior consultation) - surcharge applies |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Address:                                                                                                                 | 600 Southgate Drive, Guleph                                           |              |                  | Email 1: <a href="mailto:kami.legarrie@rwdi.com">kami.legarrie@rwdi.com</a>                                                                     |                 |              |              | <input type="checkbox"/> Other - Please contact ALS                                 |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Phone:                                                                                                                   | 519-823-1311 Fax:                                                     |              |                  | Email 2: <a href="mailto:oluwatobi.odumoye@rwdi.com">oluwatobi.odumoye@rwdi.com</a>                                                             |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Invoice To Same as Report ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                          |                                                                       |              |                  | Client / Project Information                                                                                                                    |                 |              |              | Analysis Request                                                                    |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Company:                                                                                                                 |                                                                       |              |                  | Job #:                                                                                                                                          |                 |              |              | EPS 1-RM-2                                                                          | OSTC M5 | US EPA M29                   | US EPA M26 | NCASI 98.01 | NCASI A105 |  |  |  |  |  | Hazardous? Provide Details | Highly Contaminated? | Number of Containers |
| Contact:                                                                                                                 |                                                                       |              |                  | Location: SMC St Marys                                                                                                                          |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Address:                                                                                                                 |                                                                       |              |                  | PO: 2509873                                                                                                                                     |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Phone:                                                                                                                   |                                                                       |              |                  | Sampled by: Adam Tran                                                                                                                           |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Lab Work Order #                                                                                                         |                                                                       |              |                  | ALS Contact: Robert Chin                                                                                                                        |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Sample #                                                                                                                 | Sample Identification<br>(This description will appear on the report) |              |                  | Date<br>(dd-mmm-yy)                                                                                                                             | Time<br>(hh:mm) | Sample Type  |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| 1                                                                                                                        | SVOC Blank                                                            |              |                  | 11-Apr-2025                                                                                                                                     |                 | Air          | X            |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            | 6                    |                      |
| 2                                                                                                                        | SVOC - Raw Mill On - [Test 1, Test 2, Test 3]                         |              |                  | 8-9/Apr/2025                                                                                                                                    |                 | Air          | X            |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            | 18                   |                      |
| 3                                                                                                                        | SVOC - Raw Mill Off - [Test 1, Test 2, Test 3]                        |              |                  | 10-Apr-2025                                                                                                                                     |                 | Air          | X            |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            | 18                   |                      |
| 4                                                                                                                        | M5,M29 Blank                                                          |              |                  | 11-Apr-2025                                                                                                                                     |                 | Air          |              | X                                                                                   | X       |                              |            |             |            |  |  |  |  |  |                            | 7                    |                      |
| 5                                                                                                                        | M5,M29 - Raw Mill On - [Test 1, Test 2, Test 3]                       |              |                  | 8-9/Apr/2025                                                                                                                                    |                 | Air          |              | X                                                                                   | X       |                              |            |             |            |  |  |  |  |  |                            | 21                   |                      |
| 6                                                                                                                        | M5,M29 - Raw Mill Off - [Test 1, Test 2, Test 3]                      |              |                  | 10-Apr-2025                                                                                                                                     |                 | Air          |              | X                                                                                   | X       |                              |            |             |            |  |  |  |  |  |                            | 21                   |                      |
| 7                                                                                                                        | M26 Blank                                                             |              |                  | 9-Apr-2025                                                                                                                                      |                 | Air          |              |                                                                                     |         | X                            |            |             |            |  |  |  |  |  |                            | 1                    |                      |
| 8                                                                                                                        | M26 [Test 1, Test 2, Test 3]                                          |              |                  | 9-Apr-2025                                                                                                                                      |                 | Air          |              |                                                                                     |         | X                            |            |             |            |  |  |  |  |  |                            | 3                    |                      |
| 9                                                                                                                        | NCASI 98.01 Blank                                                     |              |                  | 11-Apr-2025                                                                                                                                     |                 | Air          |              |                                                                                     |         |                              | X          |             |            |  |  |  |  |  |                            | 1                    |                      |
| 10                                                                                                                       | NCASI 98.01 [Test 1, Test 2, Test 3]                                  |              |                  | 11-Apr-2025                                                                                                                                     |                 | Air          |              |                                                                                     |         |                              | X          |             |            |  |  |  |  |  |                            | 3                    |                      |
| 11                                                                                                                       | NCASI A105 Blank                                                      |              |                  | 11-Apr-2025                                                                                                                                     |                 | Air          |              |                                                                                     |         |                              |            | X           |            |  |  |  |  |  |                            | 1                    |                      |
| 12                                                                                                                       | NCASI A105 [[Test 1, Test 2, Test 3]]                                 |              |                  | 11-Apr-2025                                                                                                                                     |                 | Air          |              |                                                                                     |         |                              |            | X           |            |  |  |  |  |  |                            | 3                    |                      |
| 13                                                                                                                       |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| 14                                                                                                                       |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| 15                                                                                                                       |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| 16                                                                                                                       |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| 17                                                                                                                       |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| 18                                                                                                                       |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| 19                                                                                                                       |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| 20                                                                                                                       |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Special Instructions / Regulations / Hazardous Details                                                                   |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| EPS 1/RM-2 - compounds separate list to follow. US EPA M29 - metals separate list to follow                              |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| US EPA M26 - HCl, NH3. NCASI 98.01 Alcohols - Methanol, Phenol. NCASI A105 Aldehydes - Acrolein, Acetaldehyde, Propional |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS                |                                                                       |              |                  |                                                                                                                                                 |                 |              |              |                                                                                     |         |                              |            |             |            |  |  |  |  |  |                            |                      |                      |
| Released by:                                                                                                             | Date (dd-mmm-yy)                                                      | Time (hh-mm) | Received by:     | Date:                                                                                                                                           | Time:           | Temperature: | Verified by: | Date:                                                                               | Time:   | Observations:                |            |             |            |  |  |  |  |  |                            |                      |                      |
|                                                                                                                          |                                                                       |              | <i>Adam Tran</i> | 15-Apr-2025                                                                                                                                     | 11:35           | 1.8 °C       |              |                                                                                     |         | Yes / No ?<br>If Yes add SIF |            |             |            |  |  |  |  |  |                            |                      |                      |

Environmental Division  
Burlington  
Work Order Reference  
**BU2500944**



Telephone : +1 905 331 3111

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**CERTIFICATE OF ANALYSIS**

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|                                |                                 |                                |                                  |
|--------------------------------|---------------------------------|--------------------------------|----------------------------------|
| <b>Work Order</b>              | : <b>BU2500943</b>              | <b>Laboratory</b>              | : ALS Environmental - Burlington |
| <b>Client</b>                  | : <b>RWDI Air Inc.</b>          | <b>Account Manager</b>         | : Robert Chin                    |
| <b>Contact</b>                 | : Oluwatobi Odumoye             | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1     |
| <b>Address</b>                 | : 600 Southgate Drive           |                                | : Burlington ON Canada L7L 0E6   |
|                                | : Guelph Ontario Canada N1G 4P6 | <b>E-mail</b>                  | : Robert.Chin@ALSGlobal.com      |
| <b>Telephone</b>               | : 519 823 1311                  | <b>Telephone</b>               | : +1 905 331 3111                |
| <b>Project</b>                 | : 2509873 SMC St. Mary's        | <b>Date Samples Received</b>   | : 15-Apr-2025 11:35              |
| <b>PO</b>                      | : 2509873                       | <b>Date Analysis Commenced</b> | : 21-Apr-2025                    |
| <b>C-O-C number</b>            | : ----                          | <b>Issue Date</b>              | : 02-Jun-2025 13:01              |
| <b>Sampler</b>                 | : Adam Tran                     |                                |                                  |
| <b>Site</b>                    | : ----                          |                                |                                  |
| <b>Quote number</b>            | : SMC St Marys                  |                                |                                  |
| <b>No. of samples received</b> | : 4                             |                                |                                  |
| <b>No. of samples analysed</b> | : 4                             |                                |                                  |

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This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

---

**Signatories**

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i>               | <i>Laboratory Department</i>  |
|--------------------|-------------------------------|-------------------------------|
| Stephen Kennedy    | Department Manager - Organics | Organics, Burlington, Ontario |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit      | Description           |
|-----------|-----------------------|
| µg/sample | micrograms per sample |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



**Analytical Results**

Sub-Matrix: Impinger  
 (Matrix: Air)

|                 |            |            |      |           | Client sample ID            | NCASI A105 Test 1 | NCASI A105 Test 2 | NCASI A105 Test 3 | NCASI A105 Blank  | ---- |
|-----------------|------------|------------|------|-----------|-----------------------------|-------------------|-------------------|-------------------|-------------------|------|
|                 |            |            |      |           | Client sampling date / time | 11-Apr-2025 00:00 | 11-Apr-2025 00:00 | 11-Apr-2025 00:00 | 11-Apr-2025 00:00 | ---- |
| Analyte         | CAS Number | Method/Lab | LOR  | Unit      |                             | BU2500943-001     | BU2500943-002     | BU2500943-003     | BU2500943-004     | ---- |
|                 |            |            |      |           |                             | Result            | Result            | Result            | Result            | ---- |
| Aldehydes       |            |            |      |           |                             |                   |                   |                   |                   |      |
| Acetaldehyde    | 75-07-0    | E690/BU    | 0.10 | µg/sample |                             | 884               | 843               | 683               | 4.57              | ---- |
| Acrolein        | 107-02-8   | E690/BU    | 0.10 | µg/sample |                             | 174               | 166               | 129               | <0.50             | ---- |
| Propionaldehyde | 123-38-6   | E690/BU    | 0.10 | µg/sample |                             | 279               | 243               | 203               | 4.46              | ---- |

Please refer to the General Comments section for an explanation of any qualifiers detected.

## QUALITY CONTROL INTERPRETIVE REPORT

|                         |                                                   |                       |                                                                    |
|-------------------------|---------------------------------------------------|-----------------------|--------------------------------------------------------------------|
| Work Order              | : <b>BU2500943</b>                                | Page                  | : 1 of 5                                                           |
| Client                  | : <b>RWDI Air Inc.</b>                            | Laboratory            | : ALS Environmental - Burlington                                   |
| Contact                 | : Oluwatobi Odumoye                               | Account Manager       | : Robert Chin                                                      |
| Address                 | : 600 Southgate Drive<br>Guelph ON Canada N1G 4P6 | Address               | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| Telephone               | : 519 823 1311                                    | Telephone             | : +1 905 331 3111                                                  |
| Project                 | : 2509873 SMC St. Mary's                          | Date Samples Received | : 15-Apr-2025 11:35                                                |
| PO                      | : 2509873                                         | Issue Date            | : 02-Jun-2025 13:02                                                |
| C-O-C number            | : ----                                            |                       |                                                                    |
| Sampler                 | : Adam Tran                                       |                       |                                                                    |
| Site                    | :                                                 |                       |                                                                    |
| Quote number            | : SMC St Marys                                    |                       |                                                                    |
| No. of samples received | : 4                                               |                       |                                                                    |
| No. of samples analysed | : 4                                               |                       |                                                                    |

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

### Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

### **Workorder Comments**

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### **Summary of Outliers**

#### **Outliers : Quality Control Samples**

- No Method Blank value outliers occur.
- No Test sample Surrogate recovery outliers exist.

#### **Outliers: Reference Material (RM) Samples**

- No Reference Material (RM) Sample outliers occur.

#### **Outliers : Analysis Holding Time Compliance (Breaches)**

- No Analysis Holding Time Outliers exist.

#### **Outliers : Frequency of Quality Control Samples**

- No Quality Control Sample Frequency Outliers occur.



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |         |      | Analysis      |               |         |      |
|----------------------------------------------------------------------|--------|---------------|--------------------------|---------------|---------|------|---------------|---------------|---------|------|
|                                                                      |        |               | Preparation Date         | Holding Times |         | Eval | Analysis Date | Holding Times |         | Eval |
|                                                                      |        |               |                          | Rec           | Actual  |      |               | Rec           | Actual  |      |
| Aldehydes : Aldehydes in Air via BHA solution by GC-MS               |        |               |                          |               |         |      |               |               |         |      |
| Amber glass/Teflon lined closed cap<br>NCASI A105 Blank              | E690   | 11-Apr-2025   | 21-Apr-2025              | 21 days       | 11 days | ✓    | 05-May-2025   | 40 days       | 14 days | ✓    |
| Aldehydes : Aldehydes in Air via BHA solution by GC-MS               |        |               |                          |               |         |      |               |               |         |      |
| Amber glass/Teflon lined closed cap<br>NCASI A105 Test 1             | E690   | 11-Apr-2025   | 21-Apr-2025              | 21 days       | 11 days | ✓    | 05-May-2025   | 40 days       | 14 days | ✓    |
| Aldehydes : Aldehydes in Air via BHA solution by GC-MS               |        |               |                          |               |         |      |               |               |         |      |
| Amber glass/Teflon lined closed cap<br>NCASI A105 Test 2             | E690   | 11-Apr-2025   | 21-Apr-2025              | 21 days       | 11 days | ✓    | 05-May-2025   | 40 days       | 14 days | ✓    |
| Aldehydes : Aldehydes in Air via BHA solution by GC-MS               |        |               |                          |               |         |      |               |               |         |      |
| Amber glass/Teflon lined closed cap<br>NCASI A105 Test 3             | E690   | 11-Apr-2025   | 21-Apr-2025              | 21 days       | 11 days | ✓    | 05-May-2025   | 40 days       | 14 days | ✓    |

### Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type                |        |          | Count |         | Frequency (%) |          |            |
|--------------------------------------------|--------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                         | Method | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| Laboratory Control Samples (LCS)           |        |          |       |         |               |          |            |
| Aldehydes in Air via BHA solution by GC-MS | E690   | 1956467  | 1     | 4       | 25.0          | 10.0     | ✓          |
| Method Blanks (MB)                         |        |          |       |         |               |          |            |
| Aldehydes in Air via BHA solution by GC-MS | E690   | 1956467  | 1     | 4       | 25.0          | 5.0      | ✓          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods                                                   | Method / Lab                                | Matrix | Method Reference                                      | Method Descriptions                                                                                     |
|----------------------------------------------------------------------|---------------------------------------------|--------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Aldehydes in Air via BHA solution by GC-MS                           | E690<br><br>ALS Environmental - Burlington  | Air    | NCASI A105.01                                         | Sample is collected in BHA Solution.<br>Extracted compounds are analyzed by GC-MS.                      |
| Preparation Methods                                                  | Method / Lab                                | Matrix | Method Reference                                      | Method Descriptions                                                                                     |
| Extraction (Soxhlet and liquid-liquid) of Stack for Organic Analytes | EP800<br><br>ALS Environmental - Burlington | Air    | EPA Method 3540C (Soxhlet) and EPA Method 3510C (L-L) | Samples are extracted with Soxhlet and/or separatory funnel apparatus, followed by appropriate cleanup. |

QUALITY CONTROL REPORT

|                         |                                                   |                         |                                                                    |
|-------------------------|---------------------------------------------------|-------------------------|--------------------------------------------------------------------|
| Work Order              | : <b>BU2500943</b>                                | Page                    | : 1 of 2                                                           |
| Client                  | : RWDI Air Inc.                                   | Laboratory              | : ALS Environmental - Burlington                                   |
| Contact                 | : Oluwatobi Odumoye                               | Account Manager         | : Robert Chin                                                      |
| Address                 | : 600 Southgate Drive<br>Guelph ON Canada N1G 4P6 | Address                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| Telephone               | : 519 823 1311                                    | Telephone               | : +1 905 331 3111                                                  |
| Project                 | : 2509873 SMC St. Mary's                          | Date Samples Received   | : 15-Apr-2025 11:35                                                |
| PO                      | : 2509873                                         | Date Analysis Commenced | : 21-Apr-2025                                                      |
| C-O-C number            | : ----                                            | Issue Date              | : 02-Jun-2025 13:01                                                |
| Sampler                 | : Adam Tran                                       |                         |                                                                    |
| Site                    | :                                                 |                         |                                                                    |
| Quote number            | : SMC St Marys                                    |                         |                                                                    |
| No. of samples received | : 4                                               |                         |                                                                    |
| No. of samples analysed | : 4                                               |                         |                                                                    |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Reference Material (RM) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories     | Position                      | Laboratory Department                    |
|-----------------|-------------------------------|------------------------------------------|
| Stephen Kennedy | Department Manager - Organics | Burlington Organics, Burlington, Ontario |



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

- Key :
- Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
  - CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
  - DQO = Data Quality Objective.
  - LOR = Limit of Reporting (detection limit).
  - RPD = Relative Percent Difference
  - # = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

| Sub-Matrix:                |                       |                 |            |        | Reference Material (RM) Report |                    |                     |      |           |
|----------------------------|-----------------------|-----------------|------------|--------|--------------------------------|--------------------|---------------------|------|-----------|
|                            |                       |                 |            |        | RM Target<br>Concentration     | Recovery (%)<br>RM | Recovery Limits (%) |      | Qualifier |
|                            |                       |                 |            |        |                                |                    | Low                 | High |           |
| Laboratory<br>sample ID    | Reference Material ID | Analyte         | CAS Number | Method |                                |                    |                     |      |           |
| Aldehydes (QCLot: 1956467) |                       |                 |            |        |                                |                    |                     |      |           |
| QC-1956467-002             | LCS-LL                | Acetaldehyde    | 75-07-0    | E690   | 12.5 µg/sample                 | 60.1               | 50.0                | 150  | ----      |
| QC-1956467-002             | LCS-LL                | Acrolein        | 107-02-8   | E690   | 12.5 µg/sample                 | 88.7               | 50.0                | 150  | ----      |
| QC-1956467-002             | LCS-LL                | Propionaldehyde | 123-38-6   | E690   | 12.5 µg/sample                 | 99.9               | 50.0                | 150  | ----      |

| Report To                                                                                                                |  |                                                  |                             |              |  | Report Format / Distribution                 |  |             |                                           |             |  | Service Requested                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------|-----------------------------|--------------|--|----------------------------------------------|--|-------------|-------------------------------------------|-------------|--|-----------------------------------------------------|--|--------------|------------------------------|-------|--|-------------------------------------------------------------------------------------|--|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company:                                                                                                                 |  |                                                  | RWDI                        |              |  | <input checked="" type="checkbox"/> Standard |  |             | <input type="checkbox"/> Other:           |             |  | <input checked="" type="checkbox"/> Regular Service |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contact:                                                                                                                 |  |                                                  | Tobi Odumoye                |              |  | <input checked="" type="checkbox"/> PDF      |  |             | <input checked="" type="checkbox"/> Excel |             |  | <input type="checkbox"/> Digital                    |  |              | <input type="checkbox"/> Fax |       |  | <input type="checkbox"/> Rush Service (with prior consultation) - surcharge applies |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Address:                                                                                                                 |  |                                                  | 600 Southgate Drive, Guleph |              |  | Email 1:                                     |  |             | kamj.legarrie@rwdi.com                    |             |  | <input type="checkbox"/> Other - Please contact ALS |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phone:                                                                                                                   |  |                                                  | 519-823-1311                |              |  | Fax:                                         |  |             |                                           |             |  | Email 2:                                            |  |              | oluwatobi.odumoye@rwdi.com   |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Invoice To Same as Report ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                          |  |                                                  |                             |              |  | Client / Project Information                 |  |             |                                           |             |  | Analysis Request                                    |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company:                                                                                                                 |  |                                                  |                             |              |  | Job #:                                       |  |             |                                           |             |  | 2509873                                             |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contact:                                                                                                                 |  |                                                  |                             |              |  | Location:                                    |  |             |                                           |             |  | SMC St Marys                                        |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Address:                                                                                                                 |  |                                                  |                             |              |  | PO:                                          |  |             |                                           |             |  | 2509873                                             |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phone:                                                                                                                   |  |                                                  |                             |              |  | Fax:                                         |  |             |                                           |             |  | Sampled by:                                         |  |              |                              |       |  | Adam Tran                                                                           |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab Work Order #                                                                                                         |  |                                                  |                             |              |  | ALS Contact:                                 |  |             |                                           |             |  | Robert Chin                                         |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sample                                                                                                                   |  | Sample Identification                            |                             |              |  | Date                                         |  | Time        |                                           | Sample Type |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| #                                                                                                                        |  | (This description will appear on the report)     |                             |              |  | (dd-mmm-yy)                                  |  | (hh:mm)     |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                        |  | SVOC Blank                                       |                             |              |  | 11-Apr-2025                                  |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                                                                                        |  | SVOC - Raw Mill On - [Test 1, Test 2, Test 3]    |                             |              |  | 8-9/Apr/2025                                 |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                                                                                        |  | SVOC - Raw Mill Off - [Test 1, Test 2, Test 3]   |                             |              |  | 10-Apr-2025                                  |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                                                                                        |  | M5,M29 Blank                                     |                             |              |  | 11-Apr-2025                                  |  |             |                                           | Air         |  | X X                                                 |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                                                        |  | M5,M29 - Raw Mill On - [Test 1, Test 2, Test 3]  |                             |              |  | 8-9/Apr/2025                                 |  |             |                                           | Air         |  | X X                                                 |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                                                                                                        |  | M5,M29 - Raw Mill Off - [Test 1, Test 2, Test 3] |                             |              |  | 10-Apr-2025                                  |  |             |                                           | Air         |  | X X                                                 |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                                                                                                        |  | M26 Blank                                        |                             |              |  | 9-Apr-2025                                   |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                                                                                                        |  | M26 [Test 1, Test 2, Test 3]                     |                             |              |  | 9-Apr-2025                                   |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                                                                                                        |  | NCASI 98.01 Blank                                |                             |              |  | 11-Apr-2025                                  |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                                                                                                       |  | NCASI 98.01 [Test 1, Test 2, Test 3]             |                             |              |  | 11-Apr-2025                                  |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                                                                                                       |  | NCASI A105 Blank                                 |                             |              |  | 11-Apr-2025                                  |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                                                                                                       |  | NCASI A105 [(Test 1, Test 2, Test 3)]            |                             |              |  | 11-Apr-2025                                  |  |             |                                           | Air         |  | X                                                   |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                                                                                                       |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                                                                                                       |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                                                                                                       |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                                                                                                       |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                                                                                                       |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                                                                                                       |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                                                                                                       |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                                                                                                       |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Special Instructions / Regulations / Hazardous Details                                                                   |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EPS 1/RM-2 - compounds separate list to follow. US EPA M29 - metals separate list to follow                              |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| US EPA M26 - HCl, NH3. NCASI 98.01 Alcohols - Methanol, Phenol. NCASI A105 Aldehydes - Acrolein, Acetaldehyde, Propional |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS                |  |                                                  |                             |              |  |                                              |  |             |                                           |             |  |                                                     |  |              |                              |       |  |                                                                                     |  |                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Released by:                                                                                                             |  | Date (dd-mmm-yy)                                 |                             | Time (hh-mm) |  | Received by:                                 |  | Date:       |                                           | Time:       |  | Temperature:                                        |  | Verified by: |                              | Date: |  | Time:                                                                               |  | Observations:                |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                          |  |                                                  |                             |              |  | AARAW<br>Burlington                          |  | 15-Apr-2005 |                                           | 11:35       |  | 1.8 °C                                              |  |              |                              |       |  |                                                                                     |  | Yes / No ?<br>If Yes add SIF |  |  |  |  |  |  |  |  |  |  |  |  |  |



05-May-2025

Robert Chin  
ALS  
1435 Norjohn Court  
Unit 1  
Burlington, Ontario L7L0E6

Re: **2509873 SMC St. Mary's; BU2500955**

Work Order: **25040201**

Dear Robert,

ALS Environmental received 4 samples on 17-Apr-2025 10:20 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Hannah Ponder**

Electronically approved by: Hannah Ponder

Hannah Ponder

## Report of Laboratory Analysis

ADDRESS 4388 Glendale Milford Rd Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

## ALS Environmental

Date: 05-May-25

**Client:** ALS  
**Project:** 2509873 SMC St. Mary's; BU2500955  
**Work Order:** 25040201

### Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u>              |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 25040201-01        | NCASI 98.01 Test 1      | Air           |                   | 4/11/2025              | 4/17/2025 10:20      | <input type="checkbox"/> |
| 25040201-02        | NCASI 98.01 Test 2      | Air           |                   | 4/11/2025              | 4/17/2025 10:20      | <input type="checkbox"/> |
| 25040201-03        | NCASI 98.01 Test 3      | Air           |                   | 4/11/2025              | 4/17/2025 10:20      | <input type="checkbox"/> |
| 25040201-04        | NCASI 98.01 Blank       | Air           |                   | 4/11/2025              | 4/17/2025 10:20      | <input type="checkbox"/> |

## ALS Environmental

Date: 05-May-25

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**Client:** ALS  
**Project:** 2509873 SMC St. Mary's; BU2500955  
**Work Order:** 25040201

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### Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

## ALS Environmental

Date: 05-May-25

Client: ALS

Project: 2509873 SMC St. Mary's; BU2500955

Work Order: 25040201

Sample ID: NCASI 98.01 Test 1

Lab ID: 25040201-01

Collection Date: 4/11/2025

Matrix: AIR

| Analyses                       | Result | Qual | Report<br>Limit   | Units     | Dilution<br>Factor | Date Analyzed       |
|--------------------------------|--------|------|-------------------|-----------|--------------------|---------------------|
| <b>ANALYSIS BY NCASI 98.01</b> |        |      | <b>NCASI98.01</b> |           |                    | Analyst: <b>TME</b> |
| Methanol                       | ND     |      | 10                | µg/sample | 1                  | 5/1/2025            |
| Phenol                         | ND     |      | 10                | µg/sample | 1                  | 5/1/2025            |

Note:

## ALS Environmental

Date: 05-May-25

Client: ALS

Project: 2509873 SMC St. Mary's; BU2500955

Work Order: 25040201

Sample ID: NCASI 98.01 Test 2

Lab ID: 25040201-02

Collection Date: 4/11/2025

Matrix: AIR

| Analyses                       | Result | Qual | Report<br>Limit   | Units     | Dilution<br>Factor | Date Analyzed       |
|--------------------------------|--------|------|-------------------|-----------|--------------------|---------------------|
| <b>ANALYSIS BY NCASI 98.01</b> |        |      | <b>NCASI98.01</b> |           |                    | Analyst: <b>TME</b> |
| Methanol                       | ND     |      | 10                | µg/sample | 1                  | 5/1/2025            |
| Phenol                         | ND     |      | 10                | µg/sample | 1                  | 5/1/2025            |

Note:

## ALS Environmental

Date: 05-May-25

Client: ALS

Project: 2509873 SMC St. Mary's; BU2500955

Work Order: 25040201

Sample ID: NCASI 98.01 Test 3

Lab ID: 25040201-03

Collection Date: 4/11/2025

Matrix: AIR

| Analyses                       | Result | Qual | Report<br>Limit   | Units     | Dilution<br>Factor | Date Analyzed       |
|--------------------------------|--------|------|-------------------|-----------|--------------------|---------------------|
| <b>ANALYSIS BY NCASI 98.01</b> |        |      | <b>NCASI98.01</b> |           |                    | Analyst: <b>TME</b> |
| Methanol                       | ND     |      | 10                | µg/sample | 1                  | 5/1/2025            |
| Phenol                         | ND     |      | 10                | µg/sample | 1                  | 5/1/2025            |

Note:

## ALS Environmental

Date: 05-May-25

Client: ALS

Project: 2509873 SMC St. Mary's; BU2500955

Work Order: 25040201

Sample ID: NCASI 98.01 Blank

Lab ID: 25040201-04

Collection Date: 4/11/2025

Matrix: AIR

| Analyses                       | Result | Qual | Report<br>Limit   | Units     | Dilution<br>Factor | Date Analyzed       |
|--------------------------------|--------|------|-------------------|-----------|--------------------|---------------------|
| <b>ANALYSIS BY NCASI 98.01</b> |        |      | <b>NCASI98.01</b> |           |                    | Analyst: <b>TME</b> |
| Methanol                       | ND     |      | 10                | µg/sample | 1                  | 5/1/2025            |
| Phenol                         | ND     |      | 10                | µg/sample | 1                  | 5/1/2025            |

Note:

Client: ALS  
Work Order: 25040201  
Project: 2509873 SMC St. Mary's; BU2500955

QC BATCH REPORT

Batch ID: R240543 Instrument ID GC4 Method: NCASI98.01

| MBLK       |        | Sample ID: MB-R240543 |         |               |      | Units: µg/sample |               | Analysis Date: 5/1/2025 |           |       |
|------------|--------|-----------------------|---------|---------------|------|------------------|---------------|-------------------------|-----------|-------|
| Client ID: |        | Run ID: GC4_250501B   |         |               |      | SeqNo: 3648298   |               | Prep Date:              |           | DF: 1 |
| Analyte    | Result | PQL                   | SPK Val | SPK Ref Value | %REC | Control Limit    | RPD Ref Value | %RPD                    | RPD Limit | Qual  |
| Methanol   | ND     | 10                    |         |               |      |                  |               |                         |           |       |
| Phenol     | ND     | 10                    |         |               |      |                  |               |                         |           |       |

| LCS        |        | Sample ID: LCS-R240543 |         |               |      | Units: µg/sample |               | Analysis Date: 5/1/2025 |           |       |
|------------|--------|------------------------|---------|---------------|------|------------------|---------------|-------------------------|-----------|-------|
| Client ID: |        | Run ID: GC4_250501B    |         |               |      | SeqNo: 3648299   |               | Prep Date:              |           | DF: 1 |
| Analyte    | Result | PQL                    | SPK Val | SPK Ref Value | %REC | Control Limit    | RPD Ref Value | %RPD                    | RPD Limit | Qual  |
| Methanol   | 82.97  | 10                     | 79.1    | 0             | 105  |                  | 0             |                         |           |       |
| Phenol     | 73.2   | 10                     | 75      | 0             | 97.6 |                  | 0             |                         |           |       |

The following samples were analyzed in this batch:

|              |              |              |
|--------------|--------------|--------------|
| 25040201-01A | 25040201-02A | 25040201-03A |
| 25040201-04A |              |              |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** ALS  
**Project:** 2509873 SMC St. Mary's; BU2500955  
**WorkOrder:** 25040201

## **QUALIFIERS, ACRONYMS, UNITS**

| <b><u>Qualifier</u></b> | <b><u>Description</u></b>                                                 |
|-------------------------|---------------------------------------------------------------------------|
| *                       | Value exceeds Regulatory Limit                                            |
| a                       | Not accredited                                                            |
| B                       | Analyte detected in the associated Method Blank above the Reporting Limit |
| E                       | Value above quantitation range                                            |
| H                       | Analyzed outside of Holding Time                                          |
| J                       | Analyte detected below quantitation limit                                 |
| n                       | Not offered for accreditation                                             |
| ND                      | Not Detected at the Reporting Limit                                       |
| O                       | Sample amount is > 4 times amount spiked                                  |
| P                       | Dual Column results percent difference > 40%                              |
| R                       | RPD above laboratory control limit                                        |
| S                       | Spike Recovery outside laboratory control limits                          |
| U                       | Analyzed but not detected above the MDL                                   |

| <b><u>Acronym</u></b> | <b><u>Description</u></b>           |
|-----------------------|-------------------------------------|
| DUP                   | Method Duplicate                    |
| E                     | EPA Method                          |
| LCS                   | Laboratory Control Sample           |
| LCSD                  | Laboratory Control Sample Duplicate |
| MBLK                  | Method Blank                        |
| MDL                   | Method Detection Limit              |
| MQL                   | Method Quantitation Limit           |
| MS                    | Matrix Spike                        |
| MSD                   | Matrix Spike Duplicate              |
| PDS                   | Post Digestion Spike                |
| PQL                   | Practical Quantitation Limit        |
| SDL                   | Sample Detection Limit              |
| SW                    | SW-846 Method                       |

| <b><u>Units Reported</u></b> | <b><u>Description</u></b> |
|------------------------------|---------------------------|
| µg/sample                    |                           |

## Sample Receipt Checklist

Client Name: **ALS-BURLINGTON**

Date/Time Received: **17-Apr-25 10:20**

Work Order: **25040201**

Received by: **MB**

Checklist completed by **Alec Bolender**

17-Apr-25

Reviewed by: **Hannah Ponder**

22-Apr-25

eSignature

Date

eSignature

Date

Matrices: **air impinger**

Carrier name: **FedEx**

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 7.6 120489

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

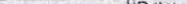
Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

| Released by: | Received by:                                                                         | Date (dd-mm-yy) | Time (hh-mm) | Received by: | Date:   | Time: | Temperature: | Verified by: | Date: | Time: | Observations:                |
|--------------|--------------------------------------------------------------------------------------|-----------------|--------------|--------------|---------|-------|--------------|--------------|-------|-------|------------------------------|
| Aaron Burton |  | 16-Apr-2025     |              |              | 4-17-25 | 10:20 | °C           |              |       |       | Yes / No ?<br>If Yes add SIF |

| Report To                                                                                                                |  |                                                  |  | Report Format / Distribution                                                                                                                    |  |                |  | Service Requested                                                                                                                                                |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|--------------|--|--------------|--|-------|--|-------|--|------------------------------|--|--|--|
| Company:                                                                                                                 |  | RWDI                                             |  | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other:                                                                    |  |                |  | <input checked="" type="checkbox"/> Regular Service                                                                                                              |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Contact:                                                                                                                 |  | Tobi Odumoye                                     |  | <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax |  |                |  | <input type="checkbox"/> Rush Service (with prior consultation) - surcharge applies                                                                              |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Address:                                                                                                                 |  | 600 Southgate Drive, Guleph                      |  | Email 1: <a href="mailto:kamri.legarrie@rwdi.com">kamri.legarrie@rwdi.com</a>                                                                   |  |                |  | <input type="checkbox"/> Other - Please contact ALS                                                                                                              |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Phone:                                                                                                                   |  | 519-823-1311                                     |  | Fax:                                                                                                                                            |  |                |  | Email 2: <a href="mailto:oluwatobi.odumoye@rwdi.com">oluwatobi.odumoye@rwdi.com</a>                                                                              |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Invoice To Same as Report ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                          |  |                                                  |  | Client / Project Information                                                                                                                    |  |                |  | Analysis Request                                                                                                                                                 |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Company:                                                                                                                 |  |                                                  |  | Job #:                                                                                                                                          |  |                |  | EPS 1-RM-2<br>OSTC M5<br>US EPA M29<br>US EPA M26<br>NCASI 98.01<br>NCASI A105<br><br>Hazardous? Provide Details<br>Highly Contaminated?<br>Number of Containers |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Contact:                                                                                                                 |  |                                                  |  | Location:                                                                                                                                       |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Address:                                                                                                                 |  |                                                  |  | PO:                                                                                                                                             |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Phone:                                                                                                                   |  |                                                  |  | Sampled by:                                                                                                                                     |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Fax:                                                                                                                     |  |                                                  |  | Adam Tran                                                                                                                                       |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Lab Work Order #                                                                                                         |  |                                                  |  | ALS Contact:                                                                                                                                    |  |                |  | Robert Chin                                                                                                                                                      |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Sample                                                                                                                   |  | Sample Identification                            |  | Date                                                                                                                                            |  | Time           |  | Sample Type                                                                                                                                                      |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| #                                                                                                                        |  | (This description will appear on the report)     |  | (dd-mm-yy)                                                                                                                                      |  | (hh:mm)        |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 1                                                                                                                        |  | SVOC Blank                                       |  | 11-Apr-2025                                                                                                                                     |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 2                                                                                                                        |  | SVOC - Raw Mill On - [Test 1, Test 2, Test 3]    |  | 8-9/Apr/2025                                                                                                                                    |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 3                                                                                                                        |  | SVOC - Raw Mill Off - [Test 1, Test 2, Test 3]   |  | 10-Apr-2025                                                                                                                                     |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 4                                                                                                                        |  | M5,M29 Blank                                     |  | 11-Apr-2025                                                                                                                                     |  |                |  | Air                                                                                                                                                              |  | X X   |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 5                                                                                                                        |  | M5,M29 - Raw Mill On - [Test 1, Test 2, Test 3]  |  | 8-9/Apr/2025                                                                                                                                    |  |                |  | Air                                                                                                                                                              |  | X X   |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 6                                                                                                                        |  | M5,M29 - Raw Mill Off - [Test 1, Test 2, Test 3] |  | 10-Apr-2025                                                                                                                                     |  |                |  | Air                                                                                                                                                              |  | X X   |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 7                                                                                                                        |  | M26 Blank                                        |  | 9-Apr-2025                                                                                                                                      |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 8                                                                                                                        |  | M26 [Test 1, Test 2, Test 3]                     |  | 9-Apr-2025                                                                                                                                      |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 9                                                                                                                        |  | NCASI 98.01 Blank                                |  | 11-Apr-2025                                                                                                                                     |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 10                                                                                                                       |  | NCASI 98.01 [Test 1, Test 2, Test 3]             |  | 11-Apr-2025                                                                                                                                     |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 11                                                                                                                       |  | NCASI A105 Blank                                 |  | 11-Apr-2025                                                                                                                                     |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 12                                                                                                                       |  | NCASI A105 [[Test 1, Test 2, Test 3]]            |  | 11-Apr-2025                                                                                                                                     |  |                |  | Air                                                                                                                                                              |  | X     |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 13                                                                                                                       |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 14                                                                                                                       |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 15                                                                                                                       |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 16                                                                                                                       |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 17                                                                                                                       |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 18                                                                                                                       |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 19                                                                                                                       |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| 20                                                                                                                       |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Special Instructions / Regulations / Hazardous Details                                                                   |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| EPS 1/RM-2 - compounds separate list to follow. US EPA M29 - metals separate list to follow                              |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| US EPA M26 - HCl, NH3. NCASI 98.01 Alcohols - Methanol, Phenol. NCASI A105 Aldehydes - Acrolein, Acetaldehyde, Propional |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided by ALS                |  |                                                  |  |                                                                                                                                                 |  |                |  |                                                                                                                                                                  |  |       |  |              |  |              |  |       |  |       |  |                              |  |  |  |
| Released by:                                                                                                             |  | Date (dd-mm-yy)                                  |  | Time (hh-mm)                                                                                                                                    |  | Received by:   |  | Date:                                                                                                                                                            |  | Time: |  | Temperature: |  | Verified by: |  | Date: |  | Time: |  | Observations:                |  |  |  |
|                                                                                                                          |  |                                                  |  |                                                                                                                                                 |  | AARAW<br>BUTEN |  | 15-Apr-2025                                                                                                                                                      |  | 11:35 |  | 1.8 °C       |  |              |  |       |  |       |  | Yes / No ?<br>If Yes add SIF |  |  |  |

## CERTIFICATE OF ANALYSIS

|                                |                                                        |                                |                                                              |
|--------------------------------|--------------------------------------------------------|--------------------------------|--------------------------------------------------------------|
| <b>Work Order</b>              | : <b>BU2500942</b>                                     |                                |                                                              |
| <b>Client</b>                  | : <b>RWDI Air Inc.</b>                                 | <b>Laboratory</b>              | : ALS Environmental - Burlington                             |
| <b>Contact</b>                 | : Oluwatobi Odumoye                                    | <b>Account Manager</b>         | : Robert Chin                                                |
| <b>Address</b>                 | : 600 Southgate Drive<br>Guelph Ontario Canada N1G 4P6 | <b>Address</b>                 | : 1435 Norjohn Court, Unit 1<br>Burlington ON Canada L7L 0E6 |
| <b>Telephone</b>               | : 519 823 1311                                         | <b>E-mail</b>                  | : Robert.Chin@ALSGlobal.com                                  |
| <b>Project</b>                 | : 2509873 SMC St. Mary's                               | <b>Telephone</b>               | : +1 905 331 3111                                            |
| <b>PO</b>                      | : 2509873                                              | <b>Date Samples Received</b>   | : 15-Apr-2025 11:35                                          |
| <b>C-O-C number</b>            | : ----                                                 | <b>Date Analysis Commenced</b> | : 30-Jun-2025                                                |
| <b>Sampler</b>                 | : Adam Tran                                            | <b>Issue Date</b>              | : 03-Jul-2025 13:38                                          |
| <b>Site</b>                    | : SMC St Marys                                         |                                |                                                              |
| <b>Quote number</b>            | : SMC St Marys                                         |                                |                                                              |
| <b>No. of samples received</b> | : 7                                                    |                                |                                                              |
| <b>No. of samples analysed</b> | : 7                                                    |                                |                                                              |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Laboratory Department</i>  |
|--------------------|-----------------|-------------------------------|
| Sabrina Jin        |                 | Organics, Burlington, Ontario |



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.  
LOR: Limit of Reporting (detection limit).

| Unit      | Description          |
|-----------|----------------------|
| ng/sample | nanograms per sample |

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Workorder Comments

In exception of SVOC Blank, all results have been reported from the analysis of diluted extracts where additional labelled extraction standard has been added for quantification. In these cases, the reported values are not recovery corrected and reported recoveries of the standard do not represent extraction and preparation recovery. The recoveries of some of the field standards were above the method control limit.

## Qualifiers

| Qualifier | Description                                                                       |
|-----------|-----------------------------------------------------------------------------------|
| [B]       | The analyte was detected in the Method Blank at >10% of the sample concentration. |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                             |            |            |     |               | Client sample ID | SVOC-CSI Test 1   | SVOC-CSI Test 2   | SVOC-CSI Test 3   | SVOC-ECA Test 1   | SVOC-ECA Test 2   |
|---------------------------------------------|------------|------------|-----|---------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Client sampling date / time                 |            |            |     |               |                  | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |
| Analyte                                     | CAS Number | Method/Lab | LOR | Unit          |                  | BU2500942-001     | BU2500942-002     | BU2500942-003     | BU2500942-004     | BU2500942-005     |
|                                             |            |            |     |               |                  | Result            | Result            | Result            | Result            | Result            |
| Polycyclic Aromatic Hydrocarbons            |            |            |     |               |                  |                   |                   |                   |                   |                   |
| Acenaphthene                                | 83-32-9    | E649/BU    | 2.0 | ng/sampl<br>e |                  | 73400             | 91600             | 64600             | 33400             | 42600             |
| Acenaphthylene                              | 208-96-8   | E649/BU    | 2.0 | ng/sampl<br>e |                  | 90100             | 120000            | 89000             | 50900             | 73800             |
| Anthracene                                  | 120-12-7   | E649/BU    | 2.0 | ng/sampl<br>e |                  | 162000            | 181000            | 147000            | 12300             | 46600             |
| Benz(a)anthracene                           | 56-55-3    | E649/BU    | 2.0 | ng/sampl<br>e |                  | 59000             | 77800             | 72100             | <600              | 4370              |
| Benz(b)anthracene + Chrysene + Triphenylene | n/a        | E649/BU    | 2.0 | ng/sampl<br>e |                  | 259000            | 330000            | 295000            | 1050              | 27900             |
| Benzo(a)fluorene                            | 238-84-6   | E649/BU    | 2.0 | ng/sampl<br>e |                  | 8000              | 9610              | 6580              | <600              | <600              |
| Benzo(a)pyrene                              | 50-32-8    | E649/BU    | 2.0 | ng/sampl<br>e |                  | 6060              | 8680              | 9160              | <600              | <600              |
| Benzo(b)fluoranthene                        | 205-99-2   | E649/BU    | 2.0 | ng/sampl<br>e |                  | 37100             | 51700             | 54000             | <600              | 2130              |
| Benzo(b)fluorene                            | 243-17-4   | E649/BU    | 2.0 | ng/sampl<br>e |                  | 5100              | 5110              | 3370              | <600              | 1350              |
| Benzo(e)pyrene                              | 192-97-2   | E649/BU    | 2.0 | ng/sampl<br>e |                  | 57100             | 79000             | 78200             | <600              | 2690              |
| Benzo(g,h,i)perylene                        | 191-24-2   | E649/BU    | 2.0 | ng/sampl<br>e |                  | <600              | <600              | <600              | <600              | <600              |
| Benzo(j+k)fluoranthenes                     | n/a        | E649/BU    | 2.0 | ng/sampl<br>e |                  | 20100             | 36100             | 35600             | <600              | 717               |
| Chloronaphthalene, 2-                       | 91-58-7    | E649/BU    | 2.0 | ng/sampl<br>e |                  | 20900             | 23500             | 20800             | 13300             | 45100             |
| Coronene                                    | 191-07-1   | E649/BU    | 10  | ng/sampl<br>e |                  | <600              | <600              | 635               | <600              | <600              |
| Dibenz(a,c+a,h)anthracenes                  | n/a        | E649/BU    | 2.0 | ng/sampl<br>e |                  | <600              | <600              | <600              | <600              | <600              |
| Dimethylantracene, 9,10-                    | 781-43-1   | E649/BU    | 2.0 | ng/sampl<br>e |                  | 22900             | 22800             | 23400             | <600              | 2740              |
| Dimethylbenz(a)anthracene, 7,12-            | 57-97-6    | E649/BU    | 2.0 | ng/sampl<br>e |                  | <2.0              | <2.0              | <2.0              | <2.0              | <2.0              |
| Fluoranthene                                | 206-44-0   | E649/BU    | 2.0 | ng/sampl<br>e |                  | 225000            | 268000            | 225000            | 4820              | 55600             |
| Fluorene                                    | 86-73-7    | E649/BU    | 2.0 | ng/sampl<br>e |                  | 157000            | 203000            | 142000            | 41000             | 69500             |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                             |            |            |     |               | Client sample ID            | SVOC-CSI Test 1   | SVOC-CSI Test 2   | SVOC-CSI Test 3   | SVOC-ECA Test 1   | SVOC-ECA Test 2   |
|---------------------------------------------|------------|------------|-----|---------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                             |            |            |     |               | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |
| Analyte                                     | CAS Number | Method/Lab | LOR | Unit          |                             | BU2500942-001     | BU2500942-002     | BU2500942-003     | BU2500942-004     | BU2500942-005     |
|                                             |            |            |     |               |                             | Result            | Result            | Result            | Result            | Result            |
| Polycyclic Aromatic Hydrocarbons            |            |            |     |               |                             |                   |                   |                   |                   |                   |
| Indeno(1,2,3-c,d)pyrene                     | 193-39-5   | E649/BU    | 2.0 | ng/sampl<br>e |                             | 1590              | 2310              | 2570              | <600              | <600              |
| Methylanthracene, 2-                        | 613-12-7   | E649/BU    | 2.0 | ng/sampl<br>e |                             | 124000            | 145000            | 119000            | 7620              | 41100             |
| Methylcholanthrene, 3-                      | 56-49-5    | E649/BU    | 10  | ng/sampl<br>e |                             | <600              | 1220              | <600              | <600              | <600              |
| Methylnaphthalene, 1-                       | 90-12-0    | E649/BU    | 2.0 | ng/sampl<br>e |                             | 414000            | 492000            | 362000            | 312000            | 384000            |
| Methylnaphthalene, 2-                       | 91-57-6    | E649/BU    | 2.0 | ng/sampl<br>e |                             | 527000            | 616000            | 467000            | 404000            | 490000            |
| Methylphenanthrene, 1-                      | 832-69-9   | E649/BU    | 2.0 | ng/sampl<br>e |                             | 168000            | 200000            | 160000            | 12200             | 53500             |
| Methylphenanthrene, 9-                      | 883-20-5   | E649/BU    | 2.0 | ng/sampl<br>e |                             | 106000            | 123000            | 100000            | 4020              | 21800             |
| Naphthalene                                 | 91-20-3    | E649/BU    | 2.0 | ng/sampl<br>e |                             | 543000            | 619000            | 567000            | 512000            | 606000            |
| Perylene                                    | 198-55-0   | E649/BU    | 2.0 | ng/sampl<br>e |                             | 1380              | 2270              | 2420              | <600              | <600              |
| Phenanthrene                                | 85-01-8    | E649/BU    | 2.0 | ng/sampl<br>e |                             | 613000            | 768000            | 630000            | 98500             | 298000            |
| Picene                                      | 213-46-7   | E649/BU    | 10  | ng/sampl<br>e |                             | <600              | <600              | <600              | <600              | <600              |
| Pyrene                                      | 129-00-0   | E649/BU    | 2.0 | ng/sampl<br>e |                             | 136000            | 167000            | 135000            | 3000              | 33500             |
| Tetralin                                    | 119-64-2   | E649/BU    | 2.0 | ng/sampl<br>e |                             | 114000            | 127000            | 107000            | 86200             | 87000             |
| Polycyclic Aromatic Hydrocarbons Surrogates |            |            |     |               |                             |                   |                   |                   |                   |                   |
| Acenaphthylene-d8                           | 93951-97-4 | E649/BU    | 2.0 | %             |                             | 146               | 145               | 148               | 130               | 120               |
| Anthracene-d10                              | 1719-06-8  | E649/BU    | 2.0 | %             |                             | 102               | 101               | 103               | 99.2              | 96.6              |
| Benz(a)anthracene-d12                       | 1718-53-2  | E649/BU    | 2.0 | %             |                             | 120               | 118               | 112               | 130               | 137               |
| Benzo(a)pyrene-d12                          | 63466-71-7 | E649/BU    | 2.0 | %             |                             | 112               | 108               | 114               | 98.3              | 104               |
| Benzo(b)fluoranthene-d12                    | 93951-98-5 | E649/BU    | 2.0 | %             |                             | 128               | 122               | 125               | 111               | 120               |
| Benzo(g,h,i)perylene-d12                    | 93951-66-7 | E649/BU    | 2.0 | %             |                             | 94.0              | 85.9              | 95.7              | 88.1              | 96.8              |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                             |             |            |     |      | Client sample ID            | SVOC-CSI Test 1   | SVOC-CSI Test 2   | SVOC-CSI Test 3   | SVOC-ECA Test 1   | SVOC-ECA Test 2   |
|---------------------------------------------|-------------|------------|-----|------|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                             |             |            |     |      | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |
| Analyte                                     | CAS Number  | Method/Lab | LOR | Unit |                             | BU2500942-001     | BU2500942-002     | BU2500942-003     | BU2500942-004     | BU2500942-005     |
|                                             |             |            |     |      |                             | Result            | Result            | Result            | Result            | Result            |
| Polycyclic Aromatic Hydrocarbons Surrogates |             |            |     |      |                             |                   |                   |                   |                   |                   |
| Benzo(k)fluoranthene-d12                    | 93952-01-3  | E649/BU    | 2.0 | %    |                             | 91.2              | 87.2              | 85.9              | 90.2              | 92.7              |
| Chrysene-d12                                | 1719-03-5   | E649/BU    | 2.0 | %    |                             | 88.6              | 88.6              | 82.2              | 99.3              | 97.3              |
| Dibenz(a,h)anthracene-d14                   | 13250-98-1  | E649/BU    | 2.0 | %    |                             | 92.8              | 86.8              | 98.9              | 76.5              | 86.0              |
| Fluoranthene-d10                            | 93951-69-0  | E649/BU    | 2.0 | %    |                             | 129               | 124               | 128               | 115               | 115               |
| Fluorene-d10                                | 81103-79-9  | E649/BU    | 2.0 | %    |                             | 96.6              | 86.1              | 75.6              | 149               | 125               |
| Indeno(1,2,3-cd)pyrene-d12                  | 203578-33-0 | E649/BU    | 2.0 | %    |                             | 92.7              | 82.8              | 98.9              | 76.5              | 86.0              |
| Methylnaphthalene-d10, 1-                   | 38072-94-5  | E649/BU    | 2.0 | %    |                             | 121               | 56.0              | 59.8              | 78.9              | 103               |
| Methylnaphthalene-d10, 2-                   | 38072-94-5  | E649/BU    | 2.0 | %    |                             | 119               | 120               | 120               | 105               | 102               |
| Naphthalene-d8                              | 1146-65-2   | E649/BU    | 2.0 | %    |                             | 118               | 122               | 120               | 107               | 108               |
| Perylene-d12                                | 1520-96-3   | E649/BU    | 2.0 | %    |                             | 111               | 107               | 113               | 101               | 105               |
| Phenanthrene-d10                            | 1517-22-2   | E649/BU    | 2.0 | %    |                             | 111               | 104               | 110               | 103               | 96.5              |
| Terphenyl-d14, p-                           | 1718-51-0   | E649/BU    | 2.0 | %    |                             | 106               | 113               | 93.0              | 134               | 86.8              |

Please refer to the General Comments section for an explanation of any qualifiers detected.

## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                  |            |            |     |           | Client sample ID            | SVOC-ECA Test 3   | SVOC Blank        | ---- | ---- | ---- |
|----------------------------------|------------|------------|-----|-----------|-----------------------------|-------------------|-------------------|------|------|------|
|                                  |            |            |     |           | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | ---- | ---- | ---- |
| Analyte                          | CAS Number | Method/Lab | LOR | Unit      |                             | BU2500942-006     | BU2500942-007     | ---- | ---- | ---- |
|                                  |            |            |     |           |                             | Result            | Result            | ---- | ---- | ---- |
| Polycyclic Aromatic Hydrocarbons |            |            |     |           |                             |                   |                   |      |      |      |
| Acenaphthene                     | 83-32-9    | E649/BU    | 2.0 | ng/sample |                             | 33900             | 18.1              | ---- | ---- | ---- |
| Acenaphthylene                   | 208-96-8   | E649/BU    | 2.0 | ng/sample |                             | 48400             | 32.7              | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                             |            |            |     |               | Client sample ID            | SVOC-ECA Test 3   | SVOC Blank        |      |      |      |
|---------------------------------------------|------------|------------|-----|---------------|-----------------------------|-------------------|-------------------|------|------|------|
|                                             |            |            |     |               | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 |      |      |      |
| Analyte                                     | CAS Number | Method/Lab | LOR | Unit          | BU2500942-006               | BU2500942-007     |                   |      |      |      |
|                                             |            |            |     |               | Result                      | Result            |                   |      |      |      |
| Polycyclic Aromatic Hydrocarbons            |            |            |     |               |                             |                   |                   |      |      |      |
| Anthracene                                  | 120-12-7   | E649/BU    | 2.0 | ng/sampl<br>e | 15700                       | 164               | ----              | ---- | ---- | ---- |
| Benz(a)anthracene                           | 56-55-3    | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Benz(b)anthracene + Chrysene + Triphenylene | n/a        | E649/BU    | 2.0 | ng/sampl<br>e | 1050                        | <6.0              | ----              | ---- | ---- | ---- |
| Benzo(a)fluorene                            | 238-84-6   | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Benzo(a)pyrene                              | 50-32-8    | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Benzo(b)fluoranthene                        | 205-99-2   | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Benzo(b)fluorene                            | 243-17-4   | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Benzo(e)pyrene                              | 192-97-2   | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Benzo(g,h,i)perylene                        | 191-24-2   | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Benzo(j+k)fluoranthenes                     | n/a        | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Chloronaphthalene, 2-                       | 91-58-7    | E649/BU    | 2.0 | ng/sampl<br>e | 13400                       | <6.0              | ----              | ---- | ---- | ---- |
| Coronene                                    | 191-07-1   | E649/BU    | 10  | ng/sampl<br>e | <600                        | <10               | ----              | ---- | ---- | ---- |
| Dibenz(a,c+a,h)anthracenes                  | n/a        | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Dimethylantracene, 9,10-                    | 781-43-1   | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | 23.6              | ----              | ---- | ---- | ---- |
| Dimethylbenz(a)anthracene, 7,12-            | 57-97-6    | E649/BU    | 2.0 | ng/sampl<br>e | <2.0                        | <2.0              | ----              | ---- | ---- | ---- |
| Fluoranthene                                | 206-44-0   | E649/BU    | 2.0 | ng/sampl<br>e | 6400                        | 17.1              | ----              | ---- | ---- | ---- |
| Fluorene                                    | 86-73-7    | E649/BU    | 2.0 | ng/sampl<br>e | 43000                       | 46.4              | ----              | ---- | ---- | ---- |
| Indeno(1,2,3-c,d)pyrene                     | 193-39-5   | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0              | ----              | ---- | ---- | ---- |
| Methylantracene, 2-                         | 613-12-7   | E649/BU    | 2.0 | ng/sampl<br>e | 8970                        | 7.7               | ----              | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                             |            |            |     |               | Client sample ID            | SVOC-ECA Test 3    | SVOC Blank        |      |      |      |
|---------------------------------------------|------------|------------|-----|---------------|-----------------------------|--------------------|-------------------|------|------|------|
|                                             |            |            |     |               | Client sampling date / time | 08-Apr-2025 00:00  | 08-Apr-2025 00:00 |      |      |      |
| Analyte                                     | CAS Number | Method/Lab | LOR | Unit          | BU2500942-006               | BU2500942-007      |                   |      |      |      |
|                                             |            |            |     |               | Result                      | Result             |                   |      |      |      |
| Polycyclic Aromatic Hydrocarbons            |            |            |     |               |                             |                    |                   |      |      |      |
| Methylcholanthrene, 3-                      | 56-49-5    | E649/BU    | 10  | ng/sampl<br>e | <600                        | <10                | ----              | ---- | ---- | ---- |
| Methylnaphthalene, 1-                       | 90-12-0    | E649/BU    | 2.0 | ng/sampl<br>e | 289000                      | 144                | ----              | ---- | ---- | ---- |
| Methylnaphthalene, 2-                       | 91-57-6    | E649/BU    | 2.0 | ng/sampl<br>e | 370000                      | 243                | ----              | ---- | ---- | ---- |
| Methylphenanthrene, 1-                      | 832-69-9   | E649/BU    | 2.0 | ng/sampl<br>e | 14800                       | 9.0                | ----              | ---- | ---- | ---- |
| Methylphenanthrene, 9-                      | 883-20-5   | E649/BU    | 2.0 | ng/sampl<br>e | 5580                        | 11.0               | ----              | ---- | ---- | ---- |
| Naphthalene                                 | 91-20-3    | E649/BU    | 2.0 | ng/sampl<br>e | 509000                      | 547 <sup>[B]</sup> | ----              | ---- | ---- | ---- |
| Perylene                                    | 198-55-0   | E649/BU    | 2.0 | ng/sampl<br>e | <600                        | <6.0               | ----              | ---- | ---- | ---- |
| Phenanthrene                                | 85-01-8    | E649/BU    | 2.0 | ng/sampl<br>e | 117000                      | 166                | ----              | ---- | ---- | ---- |
| Picene                                      | 213-46-7   | E649/BU    | 10  | ng/sampl<br>e | <600                        | <10                | ----              | ---- | ---- | ---- |
| Pyrene                                      | 129-00-0   | E649/BU    | 2.0 | ng/sampl<br>e | 4030                        | 12.3               | ----              | ---- | ---- | ---- |
| Tetralin                                    | 119-64-2   | E649/BU    | 2.0 | ng/sampl<br>e | 78200                       | 181 <sup>[B]</sup> | ----              | ---- | ---- | ---- |
| Polycyclic Aromatic Hydrocarbons Surrogates |            |            |     |               |                             |                    |                   |      |      |      |
| Acenaphthylene-d8                           | 93951-97-4 | E649/BU    | 2.0 | %             | 122                         | 82.8               | ----              | ---- | ---- | ---- |
| Anthracene-d10                              | 1719-06-8  | E649/BU    | 2.0 | %             | 93.4                        | 73.5               | ----              | ---- | ---- | ---- |
| Benz(a)anthracene-d12                       | 1718-53-2  | E649/BU    | 2.0 | %             | 129                         | 108                | ----              | ---- | ---- | ---- |
| Benzo(a)pyrene-d12                          | 63466-71-7 | E649/BU    | 2.0 | %             | 102                         | 100                | ----              | ---- | ---- | ---- |
| Benzo(b)fluoranthene-d12                    | 93951-98-5 | E649/BU    | 2.0 | %             | 116                         | 112                | ----              | ---- | ---- | ---- |
| Benzo(g,h,i)perylene-d12                    | 93951-66-7 | E649/BU    | 2.0 | %             | 90.1                        | 92.2               | ----              | ---- | ---- | ---- |
| Benzo(k)fluoranthene-d12                    | 93952-01-3 | E649/BU    | 2.0 | %             | 90.4                        | 93.1               | ----              | ---- | ---- | ---- |
| Chrysene-d12                                | 1719-03-5  | E649/BU    | 2.0 | %             | 96.0                        | 81.9               | ----              | ---- | ---- | ---- |



## Analytical Results

Sub-Matrix: Impinger  
 (Matrix: Air)

|                                             |             |            |     |      | Client sample ID            | SVOC-ECA Test 3   | SVOC Blank        |      |      |      |
|---------------------------------------------|-------------|------------|-----|------|-----------------------------|-------------------|-------------------|------|------|------|
|                                             |             |            |     |      | Client sampling date / time | 08-Apr-2025 00:00 | 08-Apr-2025 00:00 | ---- | ---- | ---- |
| Analyte                                     | CAS Number  | Method/Lab | LOR | Unit | BU2500942-006               | BU2500942-007     |                   |      |      |      |
|                                             |             |            |     |      | Result                      | Result            |                   |      |      |      |
| Polycyclic Aromatic Hydrocarbons Surrogates |             |            |     |      |                             |                   |                   |      |      |      |
| Dibenz(a,h)anthracene-d14                   | 13250-98-1  | E649/BU    | 2.0 | %    | 76.8                        | 96.7              | ----              | ---- | ---- | ---- |
| Fluoranthene-d10                            | 93951-69-0  | E649/BU    | 2.0 | %    | 114                         | 87.1              | ----              | ---- | ---- | ---- |
| Fluorene-d10                                | 81103-79-9  | E649/BU    | 2.0 | %    | 88.9                        | 128               | ----              | ---- | ---- | ---- |
| Indeno(1,2,3-cd)pyrene-d12                  | 203578-33-0 | E649/BU    | 2.0 | %    | 76.8                        | 92.8              | ----              | ---- | ---- | ---- |
| Methylnaphthalene-d10, 1-                   | 38072-94-5  | E649/BU    | 2.0 | %    | 93.5                        | 122               | ----              | ---- | ---- | ---- |
| Methylnaphthalene-d10, 2-                   | 38072-94-5  | E649/BU    | 2.0 | %    | 101                         | 68.3              | ----              | ---- | ---- | ---- |
| Naphthalene-d8                              | 1146-65-2   | E649/BU    | 2.0 | %    | 109                         | 71.1              | ----              | ---- | ---- | ---- |
| Perylene-d12                                | 1520-96-3   | E649/BU    | 2.0 | %    | 102                         | 92.0              | ----              | ---- | ---- | ---- |
| Phenanthrene-d10                            | 1517-22-2   | E649/BU    | 2.0 | %    | 94.6                        | 71.1              | ----              | ---- | ---- | ---- |
| Terphenyl-d14, p-                           | 1718-51-0   | E649/BU    | 2.0 | %    | 138                         | 119               | ----              | ---- | ---- | ---- |

Please refer to the General Comments section for an explanation of any qualifiers detected.

## QUALITY CONTROL INTERPRETIVE REPORT

|                         |                                                   |                       |                                                                    |
|-------------------------|---------------------------------------------------|-----------------------|--------------------------------------------------------------------|
| Work Order              | : <b>BU2500942</b>                                | Page                  | : 1 of 8                                                           |
| Client                  | : <b>RWDI Air Inc.</b>                            | Laboratory            | : ALS Environmental - Burlington                                   |
| Contact                 | : Oluwatobi Odumoye                               | Account Manager       | : Robert Chin                                                      |
| Address                 | : 600 Southgate Drive<br>Guelph ON Canada N1G 4P6 | Address               | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| Telephone               | : 519 823 1311                                    | Telephone             | : +1 905 331 3111                                                  |
| Project                 | : 2509873 SMC St. Mary's                          | Date Samples Received | : 15-Apr-2025 11:35                                                |
| PO                      | : 2509873                                         | Issue Date            | : 03-Jul-2025 13:39                                                |
| C-O-C number            | : ----                                            |                       |                                                                    |
| Sampler                 | : Adam Tran                                       |                       |                                                                    |
| Site                    | : SMC St Marys                                    |                       |                                                                    |
| Quote number            | : SMC St Marys                                    |                       |                                                                    |
| No. of samples received | : 7                                               |                       |                                                                    |
| No. of samples analysed | : 7                                               |                       |                                                                    |

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

### Key

**Anonymous:** Refers to samples which are not part of this work order, but which formed part of the QC process lot.

**CAS Number:** Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

**DQO:** Data Quality Objective.

**LOR:** Limit of Reporting (detection limit).

**RPD:** Relative Percent Difference.

### **Workorder Comments**

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

### **Summary of Outliers**

#### **Outliers : Quality Control Samples**

- No Laboratory Control Sample (LCS) outliers occur
- Method Blank value outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

#### **Outliers: Reference Material (RM) Samples**

- No Reference Material (RM) Sample outliers occur.

#### **Outliers : Analysis Holding Time Compliance (Breaches)**

- Analysis Holding Time Outliers exist - please see following pages for full details.

#### **Outliers : Frequency of Quality Control Samples**

- No Quality Control Sample Frequency Outliers occur.



### Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: Air

| Analyte Group                    | Laboratory sample ID | Client/Ref Sample ID | Analyte               | CAS Number | Method | Result                         | Limits      | Comment                              |
|----------------------------------|----------------------|----------------------|-----------------------|------------|--------|--------------------------------|-------------|--------------------------------------|
| <b>Method Blank (MB) Values</b>  |                      |                      |                       |            |        |                                |             |                                      |
| Polycyclic Aromatic Hydrocarbons | QC-2079302-001       | ----                 | Methylnaphthalene, 1- | 90-12-0    | E649   | 8.5 <sup>B</sup><br>ng/sample  | 2 ng/sample | Blank result exceeds permitted value |
| Polycyclic Aromatic Hydrocarbons | QC-2079302-001       | ----                 | Methylnaphthalene, 2- | 91-57-6    | E649   | 9.9 <sup>B</sup><br>ng/sample  | 2 ng/sample | Blank result exceeds permitted value |
| Polycyclic Aromatic Hydrocarbons | QC-2079302-001       | ----                 | Naphthalene           | 91-20-3    | E649   | 87.2 <sup>B</sup><br>ng/sample | 2 ng/sample | Blank result exceeds permitted value |
| Polycyclic Aromatic Hydrocarbons | QC-2079302-001       | ----                 | Tetralin              | 119-64-2   | E649   | 33.5 <sup>B</sup><br>ng/sample | 2 ng/sample | Blank result exceeds permitted value |

### Result Qualifiers

| Qualifier | Description                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| B         | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |



## Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |        |      |
|----------------------------------------------------------------------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|------|
|                                                                      |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |        | Eval |
|                                                                      |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |      |
| Dioxins and Furans : Dioxins and Furans in Stack by GC/HRMS          |        |               |                          |               |        |      |               |               |        |      |
| XAD Sorbent Trap<br>SVOC Blank                                       | E770   | 08-Apr-2025   | 16-Apr-2025              | 30 days       | 9 days | ✓    | 28-Apr-2025   | 30 days       | 9 days | ✓    |
| Dioxins and Furans : Dioxins and Furans in Stack by GC/HRMS          |        |               |                          |               |        |      |               |               |        |      |
| XAD Sorbent Trap<br>SVOC-CSI Test 1                                  | E770   | 08-Apr-2025   | 16-Apr-2025              | 30 days       | 9 days | ✓    | 28-Apr-2025   | 30 days       | 9 days | ✓    |
| Dioxins and Furans : Dioxins and Furans in Stack by GC/HRMS          |        |               |                          |               |        |      |               |               |        |      |
| XAD Sorbent Trap<br>SVOC-CSI Test 2                                  | E770   | 08-Apr-2025   | 16-Apr-2025              | 30 days       | 9 days | ✓    | 28-Apr-2025   | 30 days       | 9 days | ✓    |
| Dioxins and Furans : Dioxins and Furans in Stack by GC/HRMS          |        |               |                          |               |        |      |               |               |        |      |
| XAD Sorbent Trap<br>SVOC-CSI Test 3                                  | E770   | 08-Apr-2025   | 16-Apr-2025              | 30 days       | 9 days | ✓    | 28-Apr-2025   | 30 days       | 9 days | ✓    |
| Dioxins and Furans : Dioxins and Furans in Stack by GC/HRMS          |        |               |                          |               |        |      |               |               |        |      |
| XAD Sorbent Trap<br>SVOC-ECA Test 1                                  | E770   | 08-Apr-2025   | 16-Apr-2025              | 30 days       | 9 days | ✓    | 28-Apr-2025   | 30 days       | 9 days | ✓    |
| Dioxins and Furans : Dioxins and Furans in Stack by GC/HRMS          |        |               |                          |               |        |      |               |               |        |      |
| XAD Sorbent Trap<br>SVOC-ECA Test 2                                  | E770   | 08-Apr-2025   | 16-Apr-2025              | 30 days       | 9 days | ✓    | 28-Apr-2025   | 30 days       | 9 days | ✓    |
| Dioxins and Furans : Dioxins and Furans in Stack by GC/HRMS          |        |               |                          |               |        |      |               |               |        |      |
| XAD Sorbent Trap<br>SVOC-ECA Test 3                                  | E770   | 08-Apr-2025   | 16-Apr-2025              | 30 days       | 9 days | ✓    | 28-Apr-2025   | 30 days       | 9 days | ✓    |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method                                         | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |          |
|---------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|----------|
| Container / Client Sample ID(s)                                           |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval     |
|                                                                           |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |          |
| Polychlorinated Biphenyls : PCBs in Stack by GC/HRMS                      |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC Blank                                            | E781   | 08-Apr-2025   | 16-Apr-2025              | 365 days      | 9 days | ✓    | 23-Apr-2025   | 365 days      | 9 days  | ✓        |
| Polychlorinated Biphenyls : PCBs in Stack by GC/HRMS                      |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-CSI Test 1                                       | E781   | 08-Apr-2025   | 16-Apr-2025              | 365 days      | 9 days | ✓    | 23-Apr-2025   | 365 days      | 9 days  | ✓        |
| Polychlorinated Biphenyls : PCBs in Stack by GC/HRMS                      |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-CSI Test 2                                       | E781   | 08-Apr-2025   | 16-Apr-2025              | 365 days      | 9 days | ✓    | 23-Apr-2025   | 365 days      | 9 days  | ✓        |
| Polychlorinated Biphenyls : PCBs in Stack by GC/HRMS                      |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-CSI Test 3                                       | E781   | 08-Apr-2025   | 16-Apr-2025              | 365 days      | 9 days | ✓    | 23-Apr-2025   | 365 days      | 9 days  | ✓        |
| Polychlorinated Biphenyls : PCBs in Stack by GC/HRMS                      |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-ECA Test 1                                       | E781   | 08-Apr-2025   | 16-Apr-2025              | 365 days      | 9 days | ✓    | 23-Apr-2025   | 365 days      | 9 days  | ✓        |
| Polychlorinated Biphenyls : PCBs in Stack by GC/HRMS                      |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-ECA Test 2                                       | E781   | 08-Apr-2025   | 16-Apr-2025              | 365 days      | 9 days | ✓    | 23-Apr-2025   | 365 days      | 9 days  | ✓        |
| Polychlorinated Biphenyls : PCBs in Stack by GC/HRMS                      |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-ECA Test 3                                       | E781   | 08-Apr-2025   | 16-Apr-2025              | 365 days      | 9 days | ✓    | 23-Apr-2025   | 365 days      | 9 days  | ✓        |
| Polycyclic Aromatic Hydrocarbons : PAHs - Extended List in Stack by GC-MS |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC Blank                                            | E649   | 08-Apr-2025   | 16-Apr-2025              | 21 days       | 9 days | ✓    | 20-Jun-2025   | 40 days       | 65 days | ✖<br>EHT |
| Polycyclic Aromatic Hydrocarbons : PAHs - Extended List in Stack by GC-MS |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-CSI Test 1                                       | E649   | 08-Apr-2025   | 16-Apr-2025              | 21 days       | 9 days | ✓    | 20-Jun-2025   | 40 days       | 65 days | ✖<br>EHT |



Matrix: Air

Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

| Analyte Group : Analytical Method<br>Container / Client Sample ID(s)      | Method | Sampling Date | Extraction / Preparation |               |        |      | Analysis      |               |         |          |
|---------------------------------------------------------------------------|--------|---------------|--------------------------|---------------|--------|------|---------------|---------------|---------|----------|
|                                                                           |        |               | Preparation Date         | Holding Times |        | Eval | Analysis Date | Holding Times |         | Eval     |
|                                                                           |        |               |                          | Rec           | Actual |      |               | Rec           | Actual  |          |
| Polycyclic Aromatic Hydrocarbons : PAHs - Extended List in Stack by GC-MS |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-CSI Test 2                                       | E649   | 08-Apr-2025   | 16-Apr-2025              | 21 days       | 9 days | ✓    | 20-Jun-2025   | 40 days       | 65 days | ✖<br>EHT |
| Polycyclic Aromatic Hydrocarbons : PAHs - Extended List in Stack by GC-MS |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-CSI Test 3                                       | E649   | 08-Apr-2025   | 16-Apr-2025              | 21 days       | 9 days | ✓    | 20-Jun-2025   | 40 days       | 65 days | ✖<br>EHT |
| Polycyclic Aromatic Hydrocarbons : PAHs - Extended List in Stack by GC-MS |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-ECA Test 1                                       | E649   | 08-Apr-2025   | 16-Apr-2025              | 21 days       | 9 days | ✓    | 20-Jun-2025   | 40 days       | 65 days | ✖<br>EHT |
| Polycyclic Aromatic Hydrocarbons : PAHs - Extended List in Stack by GC-MS |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-ECA Test 2                                       | E649   | 08-Apr-2025   | 16-Apr-2025              | 21 days       | 9 days | ✓    | 20-Jun-2025   | 40 days       | 65 days | ✖<br>EHT |
| Polycyclic Aromatic Hydrocarbons : PAHs - Extended List in Stack by GC-MS |        |               |                          |               |        |      |               |               |         |          |
| XAD Sorbent Trap<br>SVOC-ECA Test 3                                       | E649   | 08-Apr-2025   | 16-Apr-2025              | 21 days       | 9 days | ✓    | 20-Jun-2025   | 40 days       | 65 days | ✖<br>EHT |

Legend & Qualifier Definitions

EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).



## Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Air**

Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

| Quality Control Sample Type            |        |          | Count |         | Frequency (%) |          |            |
|----------------------------------------|--------|----------|-------|---------|---------------|----------|------------|
| Analytical Methods                     | Method | QC Lot # | QC    | Regular | Actual        | Expected | Evaluation |
| Laboratory Control Samples (LCS)       |        |          |       |         |               |          |            |
| PAHs - Extended List in Stack by GC-MS | E649   | 2079302  | 1     | 7       | 14.2          | 5.0      | ✓          |
| Method Blanks (MB)                     |        |          |       |         |               |          |            |
| PAHs - Extended List in Stack by GC-MS | E649   | 2079302  | 1     | 7       | 14.2          | 5.0      | ✓          |



## Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| <i>Analytical Methods</i>                                            | <i>Method / Lab</i>                         | <i>Matrix</i> | <i>Method Reference</i>                               | <i>Method Descriptions</i>                                                                                                                                          |
|----------------------------------------------------------------------|---------------------------------------------|---------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAHs - Extended List in Stack by GC-MS                               | E649<br><br>ALS Environmental - Burlington  | Air           | Modified CARB 429                                     | Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by GC-MS.                                                                                                      |
| Dioxins and Furans in Stack by GC/HRMS                               | E770<br><br>ALS Environmental - Burlington  | Air           | USEPA M23                                             | Determination of POLYCHLORINATED DIBENZO-P-DIOXINS and POLYCHLORINATED DIBENZOFURANS from stationary sources.                                                       |
| PCBs in Stack by GC/HRMS                                             | E781<br><br>ALS Environmental - Burlington  | Air           | EPA 1668C                                             | The sample is extracted by Soxhlet extraction.<br>The extracts are prepared using column chromatography, reduced in volume and analyzed by isotope-dilution GC/HRMS |
| <i>Preparation Methods</i>                                           | <i>Method / Lab</i>                         | <i>Matrix</i> | <i>Method Reference</i>                               | <i>Method Descriptions</i>                                                                                                                                          |
| Extraction (Soxhlet and liquid-liquid) of Stack for Organic Analytes | EP800<br><br>ALS Environmental - Burlington | Air           | EPA Method 3540C (Soxhlet) and EPA Method 3510C (L-L) | Samples are extracted with Soxhlet and/or separatory funnel apparatus, followed by appropriate cleanup.                                                             |

QUALITY CONTROL REPORT

|                         |                                                   |                         |                                                                    |
|-------------------------|---------------------------------------------------|-------------------------|--------------------------------------------------------------------|
| Work Order              | : <b>BU2500942</b>                                | Page                    | : 1 of 4                                                           |
| Client                  | : RWDI Air Inc.                                   | Laboratory              | : ALS Environmental - Burlington                                   |
| Contact                 | : Oluwatobi Odumoye                               | Account Manager         | : Robert Chin                                                      |
| Address                 | : 600 Southgate Drive<br>Guelph ON Canada N1G 4P6 | Address                 | : 1435 Norjohn Court, Unit 1<br>Burlington, Ontario Canada L7L 0E6 |
| Telephone               | : 519 823 1311                                    | Telephone               | : +1 905 331 3111                                                  |
| Project                 | : 2509873 SMC St. Mary's                          | Date Samples Received   | : 15-Apr-2025 11:35                                                |
| PO                      | : 2509873                                         | Date Analysis Commenced | : 16-Apr-2025                                                      |
| C-O-C number            | : ----                                            | Issue Date              | : 03-Jul-2025 13:38                                                |
| Sampler                 | : Adam Tran                                       |                         |                                                                    |
| Site                    | : SMC St Marys                                    |                         |                                                                    |
| Quote number            | : SMC St Marys                                    |                         |                                                                    |
| No. of samples received | : 7                                               |                         |                                                                    |
| No. of samples analysed | : 7                                               |                         |                                                                    |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

| Signatories  | Position          | Laboratory Department                    |
|--------------|-------------------|------------------------------------------|
| Philip Elder | Technical Manager | Burlington Organics, Burlington, Ontario |
| Sabrina Jin  | Analyst           | Burlington Organics, Burlington, Ontario |

Page : 2 of 4  
Work Order : BU2500942  
Client : RWDI Air Inc.  
Project : 2509873 SMC St. Mary's



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## General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

# = Indicates a QC result that did not meet the ALS DQO.

## Workorder Comments

---

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

---



## Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Air

| Analyte                                                  | CAS Number | Method | LOR | Unit      | Result | Qualifier |
|----------------------------------------------------------|------------|--------|-----|-----------|--------|-----------|
| <b>Polycyclic Aromatic Hydrocarbons (QCLot: 2079302)</b> |            |        |     |           |        |           |
| Acenaphthene                                             | 83-32-9    | E649   | 2   | ng/sample | <6.0   | ----      |
| Acenaphthylene                                           | 208-96-8   | E649   | 2   | ng/sample | <6.0   | ----      |
| Anthracene                                               | 120-12-7   | E649   | 2   | ng/sample | <6.0   | ----      |
| Benz(a)anthracene                                        | 56-55-3    | E649   | 2   | ng/sample | <6.0   | ----      |
| Benz(b)anthracene + Chrysene + Triphenylene              | n/a        | E649   | 2   | ng/sample | <6.0   | ----      |
| Benzo(a)fluorene                                         | 238-84-6   | E649   | 2   | ng/sample | <6.0   | ----      |
| Benzo(a)pyrene                                           | 50-32-8    | E649   | 2   | ng/sample | <6.0   | ----      |
| Benzo(b)fluoranthene                                     | 205-99-2   | E649   | 2   | ng/sample | <6.0   | ----      |
| Benzo(b)fluorene                                         | 243-17-4   | E649   | 2   | ng/sample | <6.0   | ----      |
| Benzo(e)pyrene                                           | 192-97-2   | E649   | 2   | ng/sample | <6.0   | ----      |
| Benzo(g,h,i)perylene                                     | 191-24-2   | E649   | 2   | ng/sample | <6.0   | ----      |
| Benzo(j+k)fluoranthenes                                  | n/a        | E649   | 2   | ng/sample | <6.0   | ----      |
| Chloronaphthalene, 2-                                    | 91-58-7    | E649   | 2   | ng/sample | <6.0   | ----      |
| Coronene                                                 | 191-07-1   | E649   | 10  | ng/sample | <10    | ----      |
| Dibenz(a,c+a,h)anthracenes                               | n/a        | E649   | 2   | ng/sample | <6.0   | ----      |
| Dimethylantracene, 9,10-                                 | 781-43-1   | E649   | 2   | ng/sample | <6.0   | ----      |
| Dimethylbenz(a)anthracene, 7,12-                         | 57-97-6    | E649   | 2   | ng/sample | <2.0   | ----      |
| Fluoranthene                                             | 206-44-0   | E649   | 2   | ng/sample | <6.0   | ----      |
| Fluorene                                                 | 86-73-7    | E649   | 2   | ng/sample | <6.0   | ----      |
| Indeno(1,2,3-c,d)pyrene                                  | 193-39-5   | E649   | 2   | ng/sample | <6.0   | ----      |
| Methylantracene, 2-                                      | 613-12-7   | E649   | 2   | ng/sample | <6.0   | ----      |
| Methylcholanthrene, 3-                                   | 56-49-5    | E649   | 10  | ng/sample | <10    | ----      |
| Methylnaphthalene, 1-                                    | 90-12-0    | E649   | 2   | ng/sample | # 8.5  | B         |
| Methylnaphthalene, 2-                                    | 91-57-6    | E649   | 2   | ng/sample | # 9.9  | B         |
| Methylphenanthrene, 1-                                   | 832-69-9   | E649   | 2   | ng/sample | <6.0   | ----      |
| Methylphenanthrene, 9-                                   | 883-20-5   | E649   | 2   | ng/sample | <6.0   | ----      |
| Naphthalene                                              | 91-20-3    | E649   | 2   | ng/sample | # 87.2 | B         |
| Perylene                                                 | 198-55-0   | E649   | 2   | ng/sample | <6.0   | ----      |
| Phenanthrene                                             | 85-01-8    | E649   | 2   | ng/sample | <6.0   | ----      |
| Picene                                                   | 213-46-7   | E649   | 10  | ng/sample | <10    | ----      |
| Pyrene                                                   | 129-00-0   | E649   | 2   | ng/sample | <6.0   | ----      |
| Tetralin                                                 | 119-64-2   | E649   | 2   | ng/sample | # 33.5 | B         |



Qualifiers

| Qualifier | Description                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| B         | Method Blank exceeds ALS DQO. Associated sample results which are < Limit of Reporting or > 5 times blank level are considered reliable. |

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Air

|                                                   |            |        |     |           | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|---------------------------------------------------|------------|--------|-----|-----------|----------------------------------------|--------------|---------------------|------|-----------|
|                                                   |            |        |     |           | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte                                           | CAS Number | Method | LOR | Unit      | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| Polycyclic Aromatic Hydrocarbons (QCLot: 2079302) |            |        |     |           |                                        |              |                     |      |           |
| Acenaphthene                                      | 83-32-9    | E649   | 2   | ng/sample | 300 ng/sample                          | 123          | 50.0                | 150  | ----      |
| Acenaphthylene                                    | 208-96-8   | E649   | 2   | ng/sample | 300 ng/sample                          | 115          | 50.0                | 150  | ----      |
| Anthracene                                        | 120-12-7   | E649   | 2   | ng/sample | 300 ng/sample                          | 119          | 50.0                | 150  | ----      |
| Benz(a)anthracene                                 | 56-55-3    | E649   | 2   | ng/sample | 300 ng/sample                          | 122          | 50.0                | 150  | ----      |
| Benz(b)anthracene + Chrysene + Triphenylene       | n/a        | E649   | 2   | ng/sample | 300 ng/sample                          | 112          | 50.0                | 150  | ----      |
| Benzo(a)pyrene                                    | 50-32-8    | E649   | 2   | ng/sample | 300 ng/sample                          | 121          | 50.0                | 150  | ----      |
| Benzo(b)fluoranthene                              | 205-99-2   | E649   | 2   | ng/sample | 300 ng/sample                          | 99.7         | 50.0                | 150  | ----      |
| Benzo(e)pyrene                                    | 192-97-2   | E649   | 2   | ng/sample | 300 ng/sample                          | 121          | 50.0                | 150  | ----      |
| Benzo(g,h,i)perylene                              | 191-24-2   | E649   | 2   | ng/sample | 300 ng/sample                          | 113          | 50.0                | 150  | ----      |
| Benzo(j+k)fluoranthenes                           | n/a        | E649   | 2   | ng/sample | 300 ng/sample                          | 136          | 50.0                | 150  | ----      |
| Coronene                                          | 191-07-1   | E649   | 10  | ng/sample | 300 ng/sample                          | 123          | 50.0                | 150  | ----      |
| Dibenz(a,c+a,h)anthracenes                        | n/a        | E649   | 2   | ng/sample | 300 ng/sample                          | 116          | 50.0                | 150  | ----      |
| Fluoranthene                                      | 206-44-0   | E649   | 2   | ng/sample | 300 ng/sample                          | 122          | 50.0                | 150  | ----      |
| Fluorene                                          | 86-73-7    | E649   | 2   | ng/sample | 300 ng/sample                          | 128          | 50.0                | 150  | ----      |
| Indeno(1,2,3-c,d)pyrene                           | 193-39-5   | E649   | 2   | ng/sample | 300 ng/sample                          | 123          | 50.0                | 150  | ----      |
| Methylnaphthalene, 1-                             | 90-12-0    | E649   | 2   | ng/sample | 300 ng/sample                          | 124          | 50.0                | 150  | ----      |
| Methylnaphthalene, 2-                             | 91-57-6    | E649   | 2   | ng/sample | 300 ng/sample                          | 124          | 50.0                | 150  | ----      |
| Methylphenanthrene, 1-                            | 832-69-9   | E649   | 2   | ng/sample | 300 ng/sample                          | 114          | 50.0                | 150  | ----      |
| Naphthalene                                       | 91-20-3    | E649   | 2   | ng/sample | 300 ng/sample                          | 132          | 50.0                | 150  | ----      |
| Perylene                                          | 198-55-0   | E649   | 2   | ng/sample | 300 ng/sample                          | 122          | 50.0                | 150  | ----      |
| Phenanthrene                                      | 85-01-8    | E649   | 2   | ng/sample | 300 ng/sample                          | 120          | 50.0                | 150  | ----      |
| Pyrene                                            | 129-00-0   | E649   | 2   | ng/sample | 300 ng/sample                          | 113          | 50.0                | 150  | ----      |



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## Certificate of Analysis

**ALS Project Contact:** Robert Chin  
**ALS Project ID:** RWDI100  
**ALS WO#:** BU2500942  
**Date of Report:** 14-May-25  
**Date of Sample Receipt:** 15-Apr-25

**Client Name:** RWDI Air Inc.  
**Client Address:** 600 Southgate Drive  
Guelph, ON  
N1G 4P6  
**Client Contact:** Oluwatobi Odumoye  
**Client Project ID:** 2509873 SMC St. Mary's

**COMMENTS:** PCDD/F by EPA M23

Certified by:

A handwritten signature in black ink, appearing to read "Sabrina Jin".

Sabrina Jin  
Technical Specialist

Results in this certificate relate only to the samples as submitted to the laboratory.

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| ALS Life Sciences                 |                 |                 |                 |                 |                 |                 |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample Analysis summary Report    |                 |                 |                 |                 |                 |                 |
| Sample Name                       | SVOC-CSI Test 1 | SVOC-CSI Test 2 | SVOC-CSI Test 3 | SVOC-ECA Test 1 | SVOC-ECA Test 2 | SVOC-ECA Test 3 |
| ALS Sample ID                     | BU2500942-001   | BU2500942-002   | BU2500942-003   | BU2500942-004   | BU2500942-005   | BU2500942-006   |
| Sample Size                       | 1               | 1               | 1               | 1               | 1               | 1               |
| Sample size units                 | Sample          | Sample          | Sample          | Sample          | Sample          | Sample          |
| Percent Moisture                  | n/a             | n/a             | n/a             | n/a             | n/a             | n/a             |
| Sample Matrix                     | Impinger        | Impinger        | Impinger        | Impinger        | Impinger        | Impinger        |
| Sampling Date                     | 8-Apr-25        | 8-Apr-25        | 8-Apr-25        | 8-Apr-25        | 8-Apr-25        | 8-Apr-25        |
| Extraction Date                   | 16-Apr-25       | 16-Apr-25       | 16-Apr-25       | 16-Apr-25       | 16-Apr-25       | 16-Apr-25       |
| Target Analytes                   | pg              | pg              | pg              | pg              | pg              | pg              |
| 2,3,7,8-TCDD                      | 132             | 137             | 148             | <0.74           | 16.2            | <1.9            |
| 1,2,3,7,8-PeCDD                   | 225             | <230            | 323             | <0.51           | 14.0            | 0.851           |
| 1,2,3,4,7,8-HxCDD                 | 111             | 124             | 166             | <0.40           | 5.94            | <0.89           |
| 1,2,3,6,7,8-HxCDD                 | 196             | 242             | 307             | <0.68           | 9.42            | <0.85           |
| 1,2,3,7,8,9-HxCDD                 | 133             | 142             | 193             | 0.822           | <4.1            | <0.83           |
| 1,2,3,4,6,7,8-HpCDD               | 574             | 717             | 968             | 4.59            | 23.0            | 3.13            |
| OCDD                              | 449             | 567             | 729             | 13.2            | 26.9            | <8.5            |
| 2,3,7,8-TCDF                      | 4120            | 4310            | 4480            | 24.6            | 662             | 44.8            |
| 1,2,3,7,8-PeCDF                   | 1310            | 1460            | 1660            | 4.31            | 148             | 7.18            |
| 2,3,4,7,8-PeCDF                   | 2720            | 3050            | 3840            | 8.45            | 260             | <11             |
| 1,2,3,4,7,8-HxCDF                 | 1280            | 1500            | 1830            | <2.8            | 88.4            | 3.79            |
| 1,2,3,6,7,8-HxCDF                 | 877             | 1070            | 1250            | 1.58            | 52.9            | <1.4            |
| 2,3,4,6,7,8-HxCDF                 | 1050            | 1230            | 1560            | <2.5            | 60.8            | <2.1            |
| 1,2,3,7,8,9-HxCDF                 | 203             | 238             | 296             | <0.96           | 12.3            | <1.3            |
| 1,2,3,4,6,7,8-HpCDF               | 1650            | 1970            | 2700            | <3.7            | 71.5            | 4.24            |
| 1,2,3,4,7,8,9-HpCDF               | 139             | 159             | 224             | <0.55           | <5.8            | <0.75           |
| OCDF                              | 207             | 251             | 352             | 5.16            | 11.9            | 11.6            |
| Field Spike Standards             | % Rec           | % Rec           | % Rec           | % Rec           | % Rec           | % Rec           |
| 37Cl4-2,3,7,8-TCDD                | 97              | 96              | 99              | 100             | 100             | 99              |
| 13C12-1,2,3,4,7,8-HxCDD           | 102             | 101             | 97              | 104             | 105             | 86              |
| 13C12-2,3,4,7,8-PeCDF             | 102             | 104             | 116             | 103             | 101             | 96              |
| 13C12-1,2,3,4,7,8-HxCDF           | 101             | 102             | 101             | 109             | 107             | 111             |
| 13C12-1,2,3,4,7,8,9-HpCDF         | 113             | 110             | 115             | 112             | 112             | 110             |
| Extraction Standards              |                 |                 |                 |                 |                 |                 |
| 13C12-2,3,7,8-TCDD                | 87              | 81              | 91              | 105             | 96              | 105             |
| 13C12-1,2,3,7,8-PeCDD             | 86              | 79              | 90              | 107             | 96              | 105             |
| 13C12-1,2,3,6,7,8-HxCDD           | 85              | 81              | 89              | 103             | 94              | 107             |
| 13C12-1,2,3,4,6,7,8-HpCDD         | 84              | 80              | 89              | 107             | 99              | 102             |
| 13C12-OCDD                        | 81              | 76              | 82              | 102             | 94              | 98              |
| 13C12-2,3,7,8-TCDF                | 83              | 78              | 85              | 100             | 93              | 103             |
| 13C12-1,2,3,7,8-PeCDF             | 80              | 72              | 71              | 100             | 92              | 101             |
| 13C12-1,2,3,6,7,8-HxCDF           | 80              | 75              | 81              | 93              | 90              | 94              |
| 13C12-1,2,3,4,6,7,8-HpCDF         | 75              | 73              | 77              | 96              | 89              | 93              |
| Cleanup Standard                  |                 |                 |                 |                 |                 |                 |
| 13C12-1,2,3,7,8,9-HxCDF           | 76              | 79              | 72              | 93              | 77              | 82              |
| Homologue Group Totals            | pg              | pg              | pg              | pg              | pg              | pg              |
| Total-TCDD                        | 37000           | 37700           | 38100           | 234             | 4840            | 556             |
| Total-PeCDD                       | 9700            | 13000           | 14300           | 11.3            | 771             | 31.7            |
| Total-HxCDD                       | 5580            | 6610            | 8630            | 7.86            | 272             | 1.72            |
| Total-HpCDD                       | 1430            | 1770            | 2450            | 7.80            | 49.7            | 3.13            |
| Total-TCDF                        | 71800           | 72400           | 69200           | 561             | 13600           | 1000            |
| Total-PeCDF                       | 22900           | 25800           | 30600           | 56.3            | 2760            | 104             |
| Total-HxCDF                       | 9230            | 10900           | 13300           | 1.58            | 651             | 8.01            |
| Total-HpCDF                       | 2320            | 2750            | 3740            | <0.55           | 96.0            | 4.24            |
| Toxic Equivalency - (WHO 2005)    |                 |                 |                 |                 |                 |                 |
| Lower Bound PCDD/F TEQ (WHO 2005) | 2030            | 2010            | 2720            | 5.42            | 203             | 6.00            |
| Mid Point PCDD/F TEQ (WHO 2005)   | 2030            | 2240            | 2720            | 7.16            | 203             | 11.8            |
| Upper Bound PCDD/F TEQ (WHO 2005) | 2030            | 2240            | 2720            | 7.44            | 203             | 11.9            |

| ALS Life Sciences                 |               |
|-----------------------------------|---------------|
| Sample Analysis summary Report    |               |
| Sample Name                       | SVOC Blank    |
| ALS Sample ID                     | BU2500942-007 |
| Sample Size                       | 1             |
| Sample size units                 | Sample        |
| Percent Moisture                  | n/a           |
| Sample Matrix                     | Impinger      |
| Sampling Date                     | 8-Apr-25      |
| Extraction Date                   | 16-Apr-25     |
| Target Analytes                   | pg            |
| 2,3,7,8-TCDD                      | <0.44         |
| 1,2,3,7,8-PeCDD                   | <0.35         |
| 1,2,3,4,7,8-HxCDD                 | <0.37         |
| 1,2,3,6,7,8-HxCDD                 | 0.468         |
| 1,2,3,7,8,9-HxCDD                 | <0.34         |
| 1,2,3,4,6,7,8-HpCDD               | <1.7          |
| OCDD                              | <7.2          |
| 2,3,7,8-TCDF                      | <0.33         |
| 1,2,3,7,8-PeCDF                   | <0.74         |
| 2,3,4,7,8-PeCDF                   | <0.33         |
| 1,2,3,4,7,8-HxCDF                 | <0.30         |
| 1,2,3,6,7,8-HxCDF                 | <0.31         |
| 2,3,4,6,7,8-HxCDF                 | <0.30         |
| 1,2,3,7,8,9-HxCDF                 | <0.39         |
| 1,2,3,4,6,7,8-HpCDF               | 0.758         |
| 1,2,3,4,7,8,9-HpCDF               | <0.79         |
| OCDF                              | <3.3          |
| Field Spike Standards             | % Rec         |
| 37Cl4-2,3,7,8-TCDD                | 100           |
| 13C12-1,2,3,4,7,8-HxCDD           | 98            |
| 13C12-2,3,4,7,8-PeCDF             | 104           |
| 13C12-1,2,3,4,7,8-HxCDF           | 108           |
| 13C12-1,2,3,4,7,8,9-HpCDF         | 112           |
| Extraction Standards              |               |
| 13C12-2,3,7,8-TCDD                | 91            |
| 13C12-1,2,3,7,8-PeCDD             | 102           |
| 13C12-1,2,3,6,7,8-HxCDD           | 101           |
| 13C12-1,2,3,4,6,7,8-HpCDD         | 102           |
| 13C12-OCDD                        | 99            |
| 13C12-2,3,7,8-TCDF                | 91            |
| 13C12-1,2,3,7,8-PeCDF             | 98            |
| 13C12-1,2,3,6,7,8-HxCDF           | 90            |
| 13C12-1,2,3,4,6,7,8-HpCDF         | 94            |
| Cleanup Standard                  |               |
| 13C12-1,2,3,7,8,9-HxCDF           | 84            |
| Homologue Group Totals            | pg            |
| Total-TCDD                        | <0.44         |
| Total-PeCDD                       | <0.35         |
| Total-HxCDD                       | 0.468         |
| Total-HpCDD                       | 0.855         |
| Total-TCDF                        | <0.33         |
| Total-PeCDF                       | 0.411         |
| Total-HxCDF                       | <0.37         |
| Total-HpCDF                       | <0.79         |
| Toxic Equivalency - (WHO 2005)    |               |
| Lower Bound PCDD/F TEQ (WHO 2005) | 0.0544        |
| Mid Point PCDD/F TEQ (WHO 2005)   | 0.697         |
| Upper Bound PCDD/F TEQ (WHO 2005) | 1.23          |

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Quality Control Summary Report

| Sample Name                       | Method Blank        | Laboratory Control Sample |
|-----------------------------------|---------------------|---------------------------|
| ALS Sample ID                     | QC-MRG3-1952762-001 | QC-MRG2-1952762-002       |
| Sample Size                       | 1                   | 1                         |
| Sample size units                 | Sample              | n/a                       |
| Percent Moisture                  | n/a                 | n/a                       |
| Sample Matrix                     | QC                  | QC                        |
| Sampling Date                     | n/a                 | n/a                       |
| Extraction Date                   | 16-Apr-25           | 16-Apr-25                 |
| Target Analytes                   | pg                  | % Rec                     |
| 2,3,7,8-TCDD                      | <1.3                | 94                        |
| 1,2,3,7,8-PeCDD                   | <0.63               | 106                       |
| 1,2,3,4,7,8-HxCDD                 | <0.45               | 106                       |
| 1,2,3,6,7,8-HxCDD                 | <0.43               | 98                        |
| 1,2,3,7,8,9-HxCDD                 | <0.42               | 102                       |
| 1,2,3,4,6,7,8-HpCDD               | 2.83                | 100                       |
| OCDD                              | <11                 | 100                       |
| 2,3,7,8-TCDF                      | <0.84               | 93                        |
| 1,2,3,7,8-PeCDF                   | <0.91               | 99                        |
| 2,3,4,7,8-PeCDF                   | <0.52               | 101                       |
| 1,2,3,4,7,8-HxCDF                 | 1.09                | 95                        |
| 1,2,3,6,7,8-HxCDF                 | <0.61               | 96                        |
| 2,3,4,6,7,8-HxCDF                 | 1.06                | 95                        |
| 1,2,3,7,8,9-HxCDF                 | 0.768               | 109                       |
| 1,2,3,4,6,7,8-HpCDF               | <6.3                | 99                        |
| 1,2,3,4,7,8,9-HpCDF               | <0.63               | 104                       |
| OCDF                              | <6.2                | 115                       |
| Field Spike Standards             | % Rec               | % Rec                     |
| 37Cl4-2,3,7,8-TCDD                | NS                  | NS                        |
| 13C12-1,2,3,4,7,8-HxCDD           | NS                  | NS                        |
| 13C12-2,3,4,7,8-PeCDF             | NS                  | NS                        |
| 13C12-1,2,3,4,7,8-HxCDF           | NS                  | NS                        |
| 13C12-1,2,3,4,7,8,9-HpCDF         | NS                  | NS                        |
| Extraction Standards              |                     |                           |
| 13C12-2,3,7,8-TCDD                | 63                  | 73                        |
| 13C12-1,2,3,7,8-PeCDD             | 72                  | 87                        |
| 13C12-1,2,3,6,7,8-HxCDD           | 71                  | 85                        |
| 13C12-1,2,3,4,6,7,8-HpCDD         | 73                  | 95                        |
| 13C12-OCDD                        | 71                  | 95                        |
| 13C12-2,3,7,8-TCDF                | 63                  | 76                        |
| 13C12-1,2,3,7,8-PeCDF             | 69                  | 82                        |
| 13C12-1,2,3,6,7,8-HxCDF           | 67                  | 89                        |
| 13C12-1,2,3,4,6,7,8-HpCDF         | 69                  | 90                        |
| Cleanup Standard                  |                     |                           |
| 13C12-1,2,3,7,8,9-HxCDF           | 84                  | 94                        |
| Homologue Group Totals            | pg                  |                           |
| Total-TCDD                        | <1.3                |                           |
| Total-PeCDD                       | <0.63               |                           |
| Total-HxCDD                       | <0.45               |                           |
| Total-HpCDD                       | 4.94                |                           |
| Total-TCDF                        | <0.71               |                           |
| Total-PeCDF                       | 1.59                |                           |
| Total-HxCDF                       | 5.78                |                           |
| Total-HpCDF                       | <0.47               |                           |
| Toxic Equivalency - (WHO 2005)    |                     |                           |
| Lower Bound PCDD/F TEQ (WHO 2005) | 0.320               |                           |
| Mid Point PCDD/F TEQ (WHO 2005)   | 1.70                |                           |
| Upper Bound PCDD/F TEQ (WHO 2005) | 2.78                |                           |















ALS Life Sciences

Laboratory Method Blank Analysis Report

|                                          |  |                                                                                                                          |                      |                            |                                 |                               |                    |
|------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------|---------------------------------|-------------------------------|--------------------|
| <b>Sample Name</b>                       |  | <b>Method Blank</b>                                                                                                      |                      | Sampling Date              |                                 | n/a                           |                    |
| ALS Sample ID                            |  | QC-MRG3-1952762-001                                                                                                      |                      | Extraction Date            |                                 | 16-Apr-25                     |                    |
| Analysis Method                          |  | EPA M23                                                                                                                  |                      | Sample Size                |                                 | 1                      Sample |                    |
| Analysis Type                            |  | Blank                                                                                                                    |                      | Percent Moisture           |                                 | n/a                           |                    |
| Sample Matrix                            |  | QC                                                                                                                       |                      | Split Ratio                |                                 | 6                             |                    |
|                                          |  |                                                                                                                          |                      |                            |                                 |                               |                    |
| <b>Run Information</b>                   |  |                                                                                                                          |                      | <b>Run 1</b>               |                                 |                               |                    |
| Filename                                 |  |                                                                                                                          |                      | 12-250429A10               |                                 |                               |                    |
| Run Date                                 |  |                                                                                                                          |                      | 29-Apr-25 16:57            |                                 |                               |                    |
| Final Volume                             |  |                                                                                                                          |                      | 10                      uL |                                 |                               |                    |
| Dilution Factor                          |  |                                                                                                                          |                      | 1                          |                                 |                               |                    |
| Analysis Units                           |  |                                                                                                                          |                      | pg                         |                                 |                               |                    |
| Instrument - Column                      |  |                                                                                                                          |                      | HRMS-12 ZB-DX1188879       |                                 |                               |                    |
|                                          |  |                                                                                                                          |                      |                            |                                 |                               |                    |
| <b>Target Analytes</b>                   |  | <b>TEF<br/>(WHO 2005)</b>                                                                                                | <b>Ret.<br/>Time</b> | <b>Conc.<br/>pg</b>        | <b>EDL<br/>pg</b>               | <b>Flags</b>                  | <b>EMPC<br/>pg</b> |
|                                          |  |                                                                                                                          |                      |                            |                                 |                               | <b>LQL</b>         |
| 2,3,7,8-TCDD                             |  | 1                                                                                                                        | NotFnd               | <1.3                       | 1.3                             | U                             | 30                 |
| 1,2,3,7,8-PeCDD                          |  | 1                                                                                                                        | 31.60                | <0.63                      | 0.63                            | M,U                           | 0.62    30         |
| 1,2,3,4,7,8-HxCDD                        |  | 0.1                                                                                                                      | 33.79                | <0.45                      | 0.45                            | M,U                           | 30                 |
| 1,2,3,6,7,8-HxCDD                        |  | 0.1                                                                                                                      | 33.88                | <0.43                      | 0.43                            | M,U                           | 0.22    30         |
| 1,2,3,7,8,9-HxCDD                        |  | 0.1                                                                                                                      | 34.09                | <0.42                      | 0.42                            | M,J,R                         | 0.42    30         |
| 1,2,3,4,6,7,8-HpCDD                      |  | 0.01                                                                                                                     | 36.46                | 2.83                       | 1.0                             | J                             | 30                 |
| OCDD                                     |  | 0.0003                                                                                                                   | 39.51                | <11                        | 0.99                            | M,J,R                         | 11       60        |
| 2,3,7,8-TCDF                             |  | 0.1                                                                                                                      | 27.90                | <0.84                      | 0.71                            | M,J,R                         | 0.84    30         |
| 1,2,3,7,8-PeCDF                          |  | 0.03                                                                                                                     | 30.84                | <0.91                      | 0.56                            | M,J,R                         | 0.91    30         |
| 2,3,4,7,8-PeCDF                          |  | 0.3                                                                                                                      | 31.47                | <0.52                      | 0.52                            | M,U                           | 0.35    30         |
| 1,2,3,4,7,8-HxCDF                        |  | 0.1                                                                                                                      | 33.22                | 1.09                       | 0.46                            | J                             | 30                 |
| 1,2,3,6,7,8-HxCDF                        |  | 0.1                                                                                                                      | 33.32                | <0.61                      | 0.45                            | M,J,R                         | 0.61    30         |
| 2,3,4,6,7,8-HxCDF                        |  | 0.1                                                                                                                      | 33.75                | 1.06                       | 0.46                            | M,J                           | 30                 |
| 1,2,3,7,8,9-HxCDF                        |  | 0.1                                                                                                                      | 34.45                | 0.768                      | 0.56                            | M,J                           | 30                 |
| 1,2,3,4,6,7,8-HpCDF                      |  | 0.01                                                                                                                     | 35.48                | <6.3                       | 0.37                            | J,R                           | 6.3     30         |
| 1,2,3,4,7,8,9-HpCDF                      |  | 0.01                                                                                                                     | 37.11                | <0.63                      | 0.47                            | J,R                           | 0.63    30         |
| OCDF                                     |  | 0.0003                                                                                                                   | 39.86                | <6.2                       | 1.3                             | M,J,R                         | 6.2     60         |
| <b>Field Spike Standards</b>             |  | <b>pg</b>                                                                                                                | <b>% Rec</b>         |                            | <b>Limits</b>                   |                               |                    |
| 37Cl4-2,3,7,8-TCDD                       |  | 0                                                                                                                        | NS                   |                            |                                 |                               |                    |
| 13C12-1,2,3,4,7,8-HxCDD                  |  | 0                                                                                                                        | NS                   |                            |                                 |                               |                    |
| 13C12-2,3,4,7,8-PeCDF                    |  | 0                                                                                                                        | NS                   |                            |                                 |                               |                    |
| 13C12-1,2,3,4,7,8-HxCDF                  |  | 0                                                                                                                        | NS                   |                            |                                 |                               |                    |
| 13C12-1,2,3,4,7,8,9-HpCDF                |  | 0                                                                                                                        | NS                   |                            |                                 |                               |                    |
| <b>Extraction Standards</b>              |  |                                                                                                                          |                      |                            |                                 |                               |                    |
| 13C12-2,3,7,8-TCDD                       |  | 6000                                                                                                                     | 28.50                | 63                         | 40-130                          |                               |                    |
| 13C12-1,2,3,7,8-PeCDD                    |  | 6000                                                                                                                     | 31.56                | 72                         | 40-130                          |                               |                    |
| 13C12-1,2,3,6,7,8-HxCDD                  |  | 6000                                                                                                                     | 33.87                | 71                         | 40-130                          |                               |                    |
| 13C12-1,2,3,4,6,7,8-HpCDD                |  | 6000                                                                                                                     | 36.45                | 73                         | 25-130                          |                               |                    |
| 13C12-OCDD                               |  | 12000                                                                                                                    | 39.50                | 71                         | 25-130                          |                               |                    |
| 13C12-2,3,7,8-TCDF                       |  | 6000                                                                                                                     | 27.93                | 63                         | 40-130                          |                               |                    |
| 13C12-1,2,3,7,8-PeCDF                    |  | 6000                                                                                                                     | 30.83                | 69                         | 40-130                          |                               |                    |
| 13C12-1,2,3,6,7,8-HxCDF                  |  | 6000                                                                                                                     | 33.31                | 67                         | 40-130                          |                               |                    |
| 13C12-1,2,3,4,6,7,8-HpCDF                |  | 6000                                                                                                                     | 35.46                | 69                         | 25-130                          |                               |                    |
| <b>Cleanup Standard</b>                  |  | <b>pg</b>                                                                                                                |                      |                            |                                 |                               |                    |
| 13C12-1,2,3,7,8,9-HxCDF                  |  | 6000                                                                                                                     | 34.45                | 84                         | 40-130                          |                               |                    |
|                                          |  |                                                                                                                          |                      |                            |                                 |                               |                    |
| <b>Homologue Group Totals</b>            |  | <b># peaks</b>                                                                                                           | <b>Conc.<br/>pg</b>  | <b>EDL<br/>pg</b>          |                                 |                               |                    |
| Total-TCDD                               |  | 0                                                                                                                        | <1.3                 | 1.3                        | U                               | 30                            |                    |
| Total-PeCDD                              |  | 0                                                                                                                        | <0.63                | 0.63                       | U                               | 30                            |                    |
| Total-HxCDD                              |  | 0                                                                                                                        | <0.45                | 0.45                       | U                               | 30                            |                    |
| Total-HpCDD                              |  | 2                                                                                                                        | 4.94                 | 1.0                        |                                 | 30                            |                    |
| Total-TCDF                               |  | 0                                                                                                                        | <0.71                | 0.71                       | U                               | 30                            |                    |
| Total-PeCDF                              |  | 2                                                                                                                        | 1.59                 | 0.56                       |                                 | 30                            |                    |
| Total-HxCDF                              |  | 5                                                                                                                        | 5.78                 | 0.56                       |                                 | 30                            |                    |
| Total-HpCDF                              |  | 0                                                                                                                        | <0.47                | 0.47                       | U                               | 30                            |                    |
|                                          |  |                                                                                                                          |                      |                            |                                 |                               |                    |
| <b>Toxic Equivalency - (WHO 2005)</b>    |  |                                                                                                                          | <b>pg</b>            |                            |                                 |                               |                    |
| <b>Lower Bound PCDD/F TEQ (WHO 2005)</b> |  |                                                                                                                          | 0.320                |                            |                                 |                               |                    |
| <b>Mid Point PCDD/F TEQ (WHO 2005)</b>   |  |                                                                                                                          | 1.70                 |                            |                                 |                               |                    |
| <b>Upper Bound PCDD/F TEQ (WHO 2005)</b> |  |                                                                                                                          | 2.78                 |                            |                                 |                               |                    |
|                                          |  |                                                                                                                          |                      |                            |                                 |                               |                    |
| EDL                                      |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |                      |                            |                                 |                               |                    |
| TEF                                      |  | Indicates the Toxic Equivalency Factor                                                                                   |                      | TEQ                        | Indicates the Toxic Equivalency |                               |                    |
| M                                        |  | Indicates that a peak has been manually integrated.                                                                      |                      |                            |                                 |                               |                    |
| U                                        |  | Indicates that this compound was not detected above the EDL.                                                             |                      |                            |                                 |                               |                    |
| J                                        |  | indicates that a target analyte was detected below the calibrated range.                                                 |                      |                            |                                 |                               |                    |
| R                                        |  | Indicates that the ion abundance ratio for this compound did not meet the acceptance criterion.                          |                      |                            |                                 |                               |                    |
| LQL                                      |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |                      |                            |                                 |                               |                    |
| EMPC                                     |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |                      |                            |                                 |                               |                    |
| NS                                       |  | Indicates that this compound was not added.                                                                              |                      |                            |                                 |                               |                    |

ALS Life Sciences

Laboratory Control Sample Analysis Report

|                 |                           |                  |           |                                                                    |
|-----------------|---------------------------|------------------|-----------|--------------------------------------------------------------------|
| Sample Name     | Laboratory Control Sample | Sampling Date    | n/a       | Approved:<br><i>M.Elchawiche</i><br>--e-signature--<br>02-May-2025 |
| ALS Sample ID   | QC-MRG2-1952762-002       | Extraction Date  | 16-Apr-25 |                                                                    |
| Analysis Method | EPA M23                   | Sample Size      | 1 n/a     |                                                                    |
| Analysis Type   | LCS                       | Percent Moisture | n/a       |                                                                    |
| Sample Matrix   | QC                        | Split Ratio      | 6         |                                                                    |

|                     |                      |
|---------------------|----------------------|
| Run Information     | Run 1                |
| Filename            | 12-250428A03         |
| Run Date            | 28-Apr-25 17:10      |
| Final Volume        | 10 uL                |
| Dilution Factor     | 1                    |
| Analysis Units      | %                    |
| Instrument - Column | HRMS-12 ZB-DX1188879 |

| Target Analytes           | pg    | Ret. Time | % Rec | Limits | Flags |
|---------------------------|-------|-----------|-------|--------|-------|
| 2,3,7,8-TCDD              | 600   | 28.53     | 94    | 70-130 |       |
| 1,2,3,7,8-PeCDD           | 3000  | 31.57     | 106   | 70-130 |       |
| 1,2,3,4,7,8-HxCDD         | 3000  | 33.79     | 106   | 70-130 |       |
| 1,2,3,6,7,8-HxCDD         | 3000  | 33.87     | 98    | 70-130 |       |
| 1,2,3,7,8,9-HxCDD         | 3000  | 34.07     | 102   | 70-130 |       |
| 1,2,3,4,6,7,8-HpCDD       | 3000  | 36.41     | 100   | 70-130 |       |
| OCDD                      | 6000  | 39.44     | 100   | 70-130 |       |
| 2,3,7,8-TCDF              | 600   | 27.97     | 93    | 70-130 |       |
| 1,2,3,7,8-PeCDF           | 3000  | 30.84     | 99    | 70-130 |       |
| 2,3,4,7,8-PeCDF           | 3000  | 31.46     | 101   | 70-130 |       |
| 1,2,3,4,7,8-HxCDF         | 3000  | 33.22     | 95    | 70-130 |       |
| 1,2,3,6,7,8-HxCDF         | 3000  | 33.31     | 96    | 70-130 |       |
| 2,3,4,6,7,8-HxCDF         | 3000  | 33.74     | 95    | 70-130 |       |
| 1,2,3,7,8,9-HxCDF         | 3000  | 34.44     | 109   | 70-130 |       |
| 1,2,3,4,6,7,8-HpCDF       | 3000  | 35.45     | 99    | 70-130 |       |
| 1,2,3,4,7,8,9-HpCDF       | 3000  | 37.06     | 104   | 70-130 |       |
| OCDF                      | 6000  | 39.80     | 115   | 70-130 |       |
| Field Spike Standards     | pg    |           | % Rec | Limits |       |
| 37Cl4-2,3,7,8-TCDD        | 0     |           | NS    |        |       |
| 13C12-1,2,3,4,7,8-HxCDD   | 0     |           | NS    |        |       |
| 13C12-2,3,4,7,8-PeCDF     | 0     |           | NS    |        |       |
| 13C12-1,2,3,4,7,8-HxCDF   | 0     |           | NS    |        |       |
| 13C12-1,2,3,4,7,8,9-HpCDF | 0     |           | NS    |        |       |
| Extraction Standards      |       |           |       |        |       |
| 13C12-2,3,7,8-TCDD        | 6000  | 28.51     | 73    | 40-130 |       |
| 13C12-1,2,3,7,8-PeCDD     | 6000  | 31.56     | 87    | 40-130 |       |
| 13C12-1,2,3,6,7,8-HxCDD   | 6000  | 33.86     | 85    | 40-130 |       |
| 13C12-1,2,3,4,6,7,8-HpCDD | 6000  | 36.40     | 95    | 25-130 |       |
| 13C12-OCDD                | 12000 | 39.43     | 95    | 25-130 |       |
| 13C12-2,3,7,8-TCDF        | 6000  | 27.96     | 76    | 40-130 |       |
| 13C12-1,2,3,7,8-PeCDF     | 6000  | 30.84     | 82    | 40-130 |       |
| 13C12-1,2,3,6,7,8-HxCDF   | 6000  | 33.29     | 89    | 40-130 |       |
| 13C12-1,2,3,4,6,7,8-HpCDF | 6000  | 35.44     | 90    | 25-130 |       |
| Cleanup Standard          | pg    |           |       |        |       |
| 13C12-1,2,3,7,8,9-HxCDF   | 6000  | 34.43     | 94    | 40-130 |       |



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## Certificate of Analysis

**ALS Project Contact:** Robert Chin  
**ALS Project ID:** RWDI100  
**ALS WO#:** BU2500942  
**Date of Report:** 14-May-25  
**Date of Sample Receipt:** 15-Apr-25

**Client Name:** RWDI Air Inc.  
**Client Address:** 600 Southgate Drive  
Guelph, ON  
N1G 4P6  
**Client Contact:** Oluwatobi Odumoye  
**Client Project ID:** 2509873 SMC St. Mary's

**COMMENTS:** PCB Congeners by EPA 1668C

PCB Congener Group Totals and Total PCB are a sum of detected values, including EMPC values, consistent with USEPA CLP SOW CBC1.2

Certified by:

A handwritten signature in cursive script, appearing to read "Sabrina Jin".

Sabrina Jin  
Technical Specialist

Results in this certificate relate only to the samples as submitted to the laboratory.  
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| ALS Life Sciences                     |                 |                 |                 |                 |                 |                 |
|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sample Analysis Summary Report        |                 |                 |                 |                 |                 |                 |
| Sample Name                           | SVOC-CSI Test 1 | SVOC-CSI Test 2 | SVOC-CSI Test 3 | SVOC-ECA Test 1 | SVOC-ECA Test 2 | SVOC-ECA Test 3 |
| ALS Sample ID                         | BU2500942-001   | BU2500942-002   | BU2500942-003   | BU2500942-004   | BU2500942-005   | BU2500942-006   |
| Sample Size                           | 1               | 1               | 1               | 1               | 1               | 1               |
| Sample size units                     | sample          | sample          | sample          | sample          | sample          | sample          |
| Percent Moisture                      | n/a             | n/a             | n/a             | n/a             | n/a             | n/a             |
| Sample Matrix                         | Impinger        | Impinger        | Impinger        | Impinger        | Impinger        | Impinger        |
| Sampling Date                         | 8-Apr-25        | 8-Apr-25        | 8-Apr-25        | 8-Apr-25        | 8-Apr-25        | 8-Apr-25        |
| Extraction Date                       | 16-Apr-25       | 16-Apr-25       | 16-Apr-25       | 16-Apr-25       | 16-Apr-25       | 16-Apr-25       |
| <b>Target Analytes</b>                | <b>pg</b>       | <b>pg</b>       | <b>pg</b>       | <b>pg</b>       | <b>pg</b>       | <b>pg</b>       |
| PCB-081                               | 588             | 651             | 575             | <19             | 172             | <37             |
| PCB-077                               | 6990            | 7280            | 7170            | 244             | 1610            | 322             |
| PCB-123                               | 678             | 893             | 698             | <30             | <160            | 31.5            |
| PCB-118                               | 30200           | 30700           | 29300           | 1210            | 7550            | 1590            |
| PCB-114                               | 952             | 935             | 890             | 27.1            | 246             | 58.4            |
| PCB-105                               | 16500           | 17200           | 17300           | <320            | 3590            | <510            |
| PCB-126                               | 926             | 999             | 1110            | <12             | 170             | <20             |
| PCB-167                               | 3420            | 3550            | 3780            | 65.5            | 670             | 105             |
| PCB-156/157                           | 8120            | 8830            | 8680            | 107             | 1410            | 158             |
| PCB-169                               | 245             | 268             | 295             | <11             | 29.1            | <18             |
| PCB-189                               | 2260            | 2320            | 2520            | 23.2            | 273             | <16             |
| <b>Extraction Standards</b>           | <b>% Rec</b>    | <b>% Rec</b>    | <b>% Rec</b>    | <b>% Rec</b>    | <b>% Rec</b>    | <b>% Rec</b>    |
| 13C12-PCB-081                         | 84              | 73              | 82              | 73              | 58              | 69              |
| 13C12-PCB-077                         | 84              | 75              | 81              | 80              | 58              | 78              |
| 13C12-PCB-123                         | 77              | 71              | 88              | 77              | 99              | 78              |
| 13C12-PCB-118                         | 87              | 76              | 91              | 84              | 108             | 84              |
| 13C12-PCB-114                         | 84              | 71              | 85              | 80              | 103             | 83              |
| 13C12-PCB-105                         | 79              | 68              | 73              | 75              | 100             | 77              |
| 13C12-PCB-126                         | 86              | 76              | 94              | 87              | 55              | 92              |
| 13C12-PCB-167                         | 86              | 77              | 99              | 78              | 97              | 77              |
| 13C12-PCB-156/157                     | 89              | 74              | 99              | 78              | 93              | 76              |
| 13C12-PCB-169                         | 107             | 99              | 130             | 84              | 84              | 90              |
| 13C12-PCB-189                         | 102             | 91              | 116             | 80              | 104             | 85              |
| <b>Field Spike Standards</b>          |                 |                 |                 |                 |                 |                 |
| 13C12-PCB-031                         | 84              | 80              | 90              | 85              | 89              | 90              |
| 13C12-PCB-095                         | 92              | 91              | 92              | 80              | 81              | 79              |
| 13C12-PCB-153                         | 91              | 91              | 98              | 97              | 98              | 92              |
| <b>Cleanup Standards</b>              |                 |                 |                 |                 |                 |                 |
| 13C12-PCB-028                         | 78              | 80              | 80              | 62              | 78              | 54              |
| 13C12-PCB-111                         | 74              | 75              | 69              | 65              | 80              | 60              |
| 13C12-PCB-178                         | 49              | 54              | 57              | 43              | 61              | 37              |
| <b>Toxic Equivalency - (WHO 2005)</b> |                 |                 |                 |                 |                 |                 |
| Lower Bound PCB TEQ                   | 103             | 111             | 123             | 0.0674          | 18.5            | 0.0905          |
| Mid Point PCB TEQ                     | 103             | 111             | 123             | 0.849           | 18.5            | 2.66            |
| Upper Bound PCB TEQ                   | 103             | 111             | 123             | 1.61            | 18.5            | 2.66            |

| ALS Life Sciences              |               |  |
|--------------------------------|---------------|--|
| Sample Analysis Summary Report |               |  |
| Sample Name                    | SVOC Blank    |  |
| ALS Sample ID                  | BU2500942-007 |  |
| Sample Size                    | 1             |  |
| Sample size units              | sample        |  |
| Percent Moisture               | n/a           |  |
| Sample Matrix                  | Impinger      |  |
| Sampling Date                  | 8-Apr-25      |  |
| Extraction Date                | 16-Apr-25     |  |
| Target Analytes                | pg            |  |
| PCB-081                        | <7.7          |  |
| PCB-077                        | <8.0          |  |
| PCB-123                        | <4.5          |  |
| PCB-118                        | 36.9          |  |
| PCB-114                        | <4.5          |  |
| PCB-105                        | <9.8          |  |
| PCB-126                        | <4.2          |  |
| PCB-167                        | <3.7          |  |
| PCB-156/157                    | <5.6          |  |
| PCB-169                        | <3.4          |  |
| PCB-189                        | <4.4          |  |
| Extraction Standards           | % Rec         |  |
| 13C12-PCB-081                  | 82            |  |
| 13C12-PCB-077                  | 82            |  |
| 13C12-PCB-123                  | 93            |  |
| 13C12-PCB-118                  | 97            |  |
| 13C12-PCB-114                  | 93            |  |
| 13C12-PCB-105                  | 87            |  |
| 13C12-PCB-126                  | 102           |  |
| 13C12-PCB-167                  | 91            |  |
| 13C12-PCB-156/157              | 88            |  |
| 13C12-PCB-169                  | 108           |  |
| 13C12-PCB-189                  | 100           |  |
| Field Spike Standards          |               |  |
| 13C12-PCB-031                  | 95            |  |
| 13C12-PCB-095                  | 80            |  |
| 13C12-PCB-153                  | 93            |  |
| Cleanup Standards              |               |  |
| 13C12-PCB-028                  | 57            |  |
| 13C12-PCB-111                  | 68            |  |
| 13C12-PCB-178                  | 78            |  |
| Toxic Equivalency - (WHO 2005) |               |  |
| Lower Bound PCB TEQ            | 0.00111       |  |
| Mid Point PCB TEQ              | 0.264         |  |
| Upper Bound PCB TEQ            | 0.527         |  |

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|--------------------------------|----------------------|--|
| Quality Control Summary Report |                      |  |
| Sample Name                    | MB                   |  |
| ALS Sample ID                  | QC-MRGG2-1952762-001 |  |
| Sample Size                    | 1                    |  |
| Sample size units              | sample               |  |
| Percent Moisture               | n/a                  |  |
| Sample Matrix                  | QC                   |  |
| Sampling Date                  | n/a                  |  |
| Extraction Date                | 16-Apr-25            |  |
| Target Analytes                | pg/g                 |  |
| PCB-081                        | <8.3                 |  |
| PCB-077                        | <8.3                 |  |
| PCB-123                        | <6.8                 |  |
| PCB-118                        | <5.4                 |  |
| PCB-114                        | <6.5                 |  |
| PCB-105                        | <6.3                 |  |
| PCB-126                        | <6.0                 |  |
| PCB-167                        | <2.9                 |  |
| PCB-156/157                    | <3.9                 |  |
| PCB-169                        | <2.6                 |  |
| PCB-189                        | <3.2                 |  |
| Extraction Standards           | % Rec                |  |
| 13C12-PCB-081                  | 46                   |  |
| 13C12-PCB-077                  | 47                   |  |
| 13C12-PCB-123                  | 49                   |  |
| 13C12-PCB-118                  | 58                   |  |
| 13C12-PCB-114                  | 51                   |  |
| 13C12-PCB-105                  | 53                   |  |
| 13C12-PCB-126                  | 58                   |  |
| 13C12-PCB-167                  | 60                   |  |
| 13C12-PCB-156/157              | 63                   |  |
| 13C12-PCB-169                  | 73                   |  |
| 13C12-PCB-189                  | 73                   |  |
| Field Spike Standards          |                      |  |
| 13C12-PCB-031                  | NS                   |  |
| 13C12-PCB-095                  | NS                   |  |
| 13C12-PCB-153                  | NS                   |  |
| Cleanup Standards              |                      |  |
| 13C12-PCB-028                  | 47                   |  |
| 13C12-PCB-111                  | 53                   |  |
| 13C12-PCB-178                  | 63                   |  |
| Toxic Equivalency - (WHO 2005) |                      |  |
| Lower Bound PCB TEQ            | 0.00                 |  |
| Mid Point PCB TEQ              | 0.341                |  |
| Upper Bound PCB TEQ            | 0.682                |  |

# ALS Life Sciences

## Sample Analysis Summary Report

Sample Name

LCS

ALS Sample ID

QC-MRGG2-1952762-

Sample Size

1

Sample size units

n/a

Percent Moisture

n/a

Sample Matrix

QC

Sampling Date

n/a

Extraction Date

16-Apr-25

### Target Analytes

### % Rec

PCB-081

101

PCB-077

100

PCB-123

106

PCB-118

93

PCB-114

101

PCB-105

104

PCB-126

98

PCB-167

96

PCB-156/157

95

PCB-169

97

PCB-189

100

### Extraction Standards

### % Rec

13C12-PCB-081

44

13C12-PCB-077

46

13C12-PCB-123

48

13C12-PCB-118

56

13C12-PCB-114

51

13C12-PCB-105

55

13C12-PCB-126

63

13C12-PCB-167

62

13C12-PCB-156/157

66

13C12-PCB-169

81

13C12-PCB-189

83

### Field Spike Standards

13C12-PCB-031

NS

13C12-PCB-095

NS

13C12-PCB-153

NS

### Cleanup Standards

13C12-PCB-028

39

13C12-PCB-111

44

13C12-PCB-178

59

| ALS Life Sciences              |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
|--------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-----------|-------|--------------------------|-----|---------------------------------|-------------|--------------------------------------------------------------------------|-------|------------|-----|
| Sample Analysis Report         |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Sample Name                    |  | SVOC-CSI Test 1                                                                                                          |              |             |           |       | Sampling Date            |     | 8-Apr-25                        |             | <div>Approved:<br/>Henna Saeed<br/>--e-signature--<br/>13-May-2025</div> |       |            |     |
| ALS Sample ID                  |  | BU2500942-001                                                                                                            |              |             |           |       | Extraction Date          |     | 16-Apr-25                       |             |                                                                          |       |            |     |
| Analysis Method                |  | EPA 1668C                                                                                                                |              |             |           |       | Sample Size              |     | 1 sample                        |             |                                                                          |       |            |     |
| Analysis Type                  |  | Sample                                                                                                                   |              |             |           |       | Percent Moisture         |     | n/a                             |             |                                                                          |       |            |     |
| Sample Matrix                  |  | Impinger                                                                                                                 |              |             |           |       | Split Ratio              |     | 6                               |             |                                                                          |       |            |     |
| Run Information                |  | Run 1                                                                                                                    |              |             |           |       | Run 2                    |     |                                 |             |                                                                          |       |            |     |
| Filename                       |  | 5-250423A22                                                                                                              |              |             |           |       | 5-250508A24              |     |                                 |             |                                                                          |       |            |     |
| Run Date                       |  | 24-Apr-25 01:28                                                                                                          |              |             |           |       | 09-May-25 05:07          |     |                                 |             |                                                                          |       |            |     |
| Final Volume                   |  | 25 ul                                                                                                                    |              |             |           |       | 25 uL                    |     |                                 |             |                                                                          |       |            |     |
| Dilution Factor                |  | 1                                                                                                                        |              |             |           |       | 1                        |     |                                 |             |                                                                          |       |            |     |
| Analysis Units                 |  | pg                                                                                                                       |              |             |           |       | pg                       |     |                                 |             |                                                                          |       |            |     |
| Instrument - Column            |  | HRMS 5 SPBOCTYL291719-06                                                                                                 |              |             |           |       | HRMS 5 SPBOCTYL291719-06 |     |                                 |             |                                                                          |       |            |     |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg | EDL<br>pg | Flags | EMPC<br>pg               | LQL | Ret.<br>Time                    | Conc.<br>pg | EDL<br>pg                                                                | Flags | EMPC<br>pg | LQL |
| PCB-081                        |  | 0.0003                                                                                                                   |              |             |           |       |                          |     | 21.79                           | 588         | 11                                                                       |       |            | 150 |
| PCB-077                        |  | 0.0001                                                                                                                   |              |             |           |       |                          |     | 22.09                           | 6990        | 11                                                                       |       |            | 150 |
| PCB-123                        |  | 0.00003                                                                                                                  | 23.20        | 678         | 64        | M     |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-118                        |  | 0.00003                                                                                                                  | 23.37        | 30200       | 52        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-114                        |  | 0.00003                                                                                                                  | 23.67        | 952         | 59        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-105                        |  | 0.00003                                                                                                                  | 24.03        | 16500       | 55        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-126                        |  | 0.1                                                                                                                      |              |             |           |       |                          |     | 25.48                           | 926         | 13                                                                       |       |            | 150 |
| PCB-167                        |  | 0.00003                                                                                                                  | 26.49        | 3420        | 34        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-156/157                    |  | 0.00003                                                                                                                  | 27.11        | 8120        | 46        |       |                          | 300 |                                 |             |                                                                          |       |            |     |
| PCB-169                        |  | 0.03                                                                                                                     |              |             |           |       |                          |     | 28.65                           | 245         | 8.4                                                                      |       |            | 150 |
| PCB-189                        |  | 0.00003                                                                                                                  | 30.02        | 2260        | 33        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| Extraction Standards           |  | pg                                                                                                                       | Time         | % Rec       | Limits    |       |                          |     | Time                            | % Rec       | Limits                                                                   |       |            |     |
| 13C12-PCB-081                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 21.78                           | 84          | 10-145                                                                   |       |            |     |
| 13C12-PCB-077                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 22.08                           | 84          | 10-145                                                                   |       |            |     |
| 13C12-PCB-123                  |  | 6000                                                                                                                     | 23.19        | 77          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-118                  |  | 6000                                                                                                                     | 23.36        | 87          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-114                  |  | 6000                                                                                                                     | 23.66        | 84          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-105                  |  | 6000                                                                                                                     | 24.01        | 79          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-126                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 25.46                           | 86          | 10-145                                                                   |       |            |     |
| 13C12-PCB-167                  |  | 6000                                                                                                                     | 26.48        | 86          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-156/157              |  | 12000                                                                                                                    | 27.11        | 89          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-169                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 28.64                           | 107         | 10-145                                                                   |       |            |     |
| 13C12-PCB-189                  |  | 6000                                                                                                                     | 30.01        | 102         | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Field Spike Standards          |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-031                  |  | 8000                                                                                                                     | 15.95        | 84          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-095                  |  | 8000                                                                                                                     | 19.25        | 92          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-153                  |  | 8000                                                                                                                     | 24.28        | 91          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Cleanup Standards              |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-028                  |  | 6000                                                                                                                     | 16.11        | 78          | 5-145     |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-111                  |  | 6000                                                                                                                     | 22.14        | 74          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-178                  |  | 6000                                                                                                                     | 25.16        | 49          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Lower Bound PCB TEQ            |  |                                                                                                                          |              | 103         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Mid Point PCB TEQ              |  |                                                                                                                          |              | 103         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Upper Bound PCB TEQ            |  |                                                                                                                          |              | 103         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                   |              |             |           |       | TEQ                      |     | Indicates the Toxic Equivalency |             |                                                                          |       |            |     |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| M                              |  | Indicates that a peak has been manually integrated.                                                                      |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                             |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                    |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |

| ALS Life Sciences              |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
|--------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-----------|-------|--------------------------|-----|---------------------------------|-------------|--------------------------------------------------------------------------|-------|------------|-----|
| Sample Analysis Report         |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Sample Name                    |  | SVOC-CSI Test 2                                                                                                          |              |             |           |       | Sampling Date            |     | 8-Apr-25                        |             | <div>Approved:<br/>Henna Saeed<br/>--e-signature--<br/>13-May-2025</div> |       |            |     |
| ALS Sample ID                  |  | BU2500942-002                                                                                                            |              |             |           |       | Extraction Date          |     | 16-Apr-25                       |             |                                                                          |       |            |     |
| Analysis Method                |  | EPA 1668C                                                                                                                |              |             |           |       | Sample Size              |     | 1 sample                        |             |                                                                          |       |            |     |
| Analysis Type                  |  | Sample                                                                                                                   |              |             |           |       | Percent Moisture         |     | n/a                             |             |                                                                          |       |            |     |
| Sample Matrix                  |  | Impinger                                                                                                                 |              |             |           |       | Split Ratio              |     | 6                               |             |                                                                          |       |            |     |
| Run Information                |  | Run 1                                                                                                                    |              |             |           |       | Run 2                    |     |                                 |             |                                                                          |       |            |     |
| Filename                       |  | 5-250423A23                                                                                                              |              |             |           |       | 5-250508A25              |     |                                 |             |                                                                          |       |            |     |
| Run Date                       |  | 24-Apr-25 02:10                                                                                                          |              |             |           |       | 09-May-25 05:50          |     |                                 |             |                                                                          |       |            |     |
| Final Volume                   |  | 25 ul                                                                                                                    |              |             |           |       | 25 uL                    |     |                                 |             |                                                                          |       |            |     |
| Dilution Factor                |  | 1                                                                                                                        |              |             |           |       | 1                        |     |                                 |             |                                                                          |       |            |     |
| Analysis Units                 |  | pg                                                                                                                       |              |             |           |       | pg                       |     |                                 |             |                                                                          |       |            |     |
| Instrument - Column            |  | HRMS 5 SPBOCTYL291719-06                                                                                                 |              |             |           |       | HRMS 5 SPBOCTYL291719-06 |     |                                 |             |                                                                          |       |            |     |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg | EDL<br>pg | Flags | EMPC<br>pg               | LQL | Ret.<br>Time                    | Conc.<br>pg | EDL<br>pg                                                                | Flags | EMPC<br>pg | LQL |
| PCB-081                        |  | 0.0003                                                                                                                   |              |             |           |       |                          |     | 21.78                           | 651         | 15                                                                       |       |            | 150 |
| PCB-077                        |  | 0.0001                                                                                                                   |              |             |           |       |                          |     | 22.07                           | 7280        | 15                                                                       |       |            | 150 |
| PCB-123                        |  | 0.00003                                                                                                                  | 23.17        | 893         | 50        | M     |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-118                        |  | 0.00003                                                                                                                  | 23.36        | 30700       | 44        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-114                        |  | 0.00003                                                                                                                  | 23.66        | 935         | 52        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-105                        |  | 0.00003                                                                                                                  | 24.00        | 17200       | 51        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-126                        |  | 0.1                                                                                                                      |              |             |           |       |                          |     | 25.46                           | 999         | 19                                                                       |       |            | 150 |
| PCB-167                        |  | 0.00003                                                                                                                  | 26.48        | 3550        | 34        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-156/157                    |  | 0.00003                                                                                                                  | 27.09        | 8830        | 47        |       |                          | 300 |                                 |             |                                                                          |       |            |     |
| PCB-169                        |  | 0.03                                                                                                                     |              |             |           |       |                          |     | 28.64                           | 268         | 9.7                                                                      | M     |            | 150 |
| PCB-189                        |  | 0.00003                                                                                                                  | 30.01        | 2320        | 26        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| Extraction Standards           |  | pg                                                                                                                       | Time         | % Rec       | Limits    |       |                          |     | Time                            | % Rec       | Limits                                                                   |       |            |     |
| 13C12-PCB-081                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 21.77                           | 73          | 10-145                                                                   |       |            |     |
| 13C12-PCB-077                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 22.06                           | 75          | 10-145                                                                   |       |            |     |
| 13C12-PCB-123                  |  | 6000                                                                                                                     | 23.18        | 71          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-118                  |  | 6000                                                                                                                     | 23.35        | 76          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-114                  |  | 6000                                                                                                                     | 23.65        | 71          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-105                  |  | 6000                                                                                                                     | 23.99        | 68          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-126                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 25.45                           | 76          | 10-145                                                                   |       |            |     |
| 13C12-PCB-167                  |  | 6000                                                                                                                     | 26.47        | 77          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-156/157              |  | 12000                                                                                                                    | 27.09        | 74          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-169                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 28.63                           | 99          | 10-145                                                                   |       |            |     |
| 13C12-PCB-189                  |  | 6000                                                                                                                     | 30.01        | 91          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Field Spike Standards          |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-031                  |  | 8000                                                                                                                     | 15.94        | 80          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-095                  |  | 8000                                                                                                                     | 19.24        | 91          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-153                  |  | 8000                                                                                                                     | 24.27        | 91          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Cleanup Standards              |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-028                  |  | 6000                                                                                                                     | 16.10        | 80          | 5-145     |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-111                  |  | 6000                                                                                                                     | 22.12        | 75          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-178                  |  | 6000                                                                                                                     | 25.15        | 54          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Lower Bound PCB TEQ            |  |                                                                                                                          |              | 111         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Mid Point PCB TEQ              |  |                                                                                                                          |              | 111         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Upper Bound PCB TEQ            |  |                                                                                                                          |              | 111         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                   |              |             |           |       | TEQ                      |     | Indicates the Toxic Equivalency |             |                                                                          |       |            |     |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| M                              |  | Indicates that a peak has been manually integrated.                                                                      |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                             |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                    |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |

| ALS Life Sciences              |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
|--------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-----------|-------|--------------------------|-----|---------------------------------|-------------|--------------------------------------------------------------------------|-------|------------|-----|
| Sample Analysis Report         |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Sample Name                    |  | SVOC-CSI Test 3                                                                                                          |              |             |           |       | Sampling Date            |     | 8-Apr-25                        |             | <div>Approved:<br/>Henna Saeed<br/>--e-signature--<br/>13-May-2025</div> |       |            |     |
| ALS Sample ID                  |  | BU2500942-003                                                                                                            |              |             |           |       | Extraction Date          |     | 16-Apr-25                       |             |                                                                          |       |            |     |
| Analysis Method                |  | EPA 1668C                                                                                                                |              |             |           |       | Sample Size              |     | 1 sample                        |             |                                                                          |       |            |     |
| Analysis Type                  |  | Sample                                                                                                                   |              |             |           |       | Percent Moisture         |     | n/a                             |             |                                                                          |       |            |     |
| Sample Matrix                  |  | Impinger                                                                                                                 |              |             |           |       | Split Ratio              |     | 6                               |             |                                                                          |       |            |     |
| Run Information                |  | Run 1                                                                                                                    |              |             |           |       | Run 2                    |     |                                 |             |                                                                          |       |            |     |
| Filename                       |  | 5-250423A24                                                                                                              |              |             |           |       | 5-250508A26              |     |                                 |             |                                                                          |       |            |     |
| Run Date                       |  | 24-Apr-25 02:52                                                                                                          |              |             |           |       | 09-May-25 06:32          |     |                                 |             |                                                                          |       |            |     |
| Final Volume                   |  | 25 ul                                                                                                                    |              |             |           |       | 25 uL                    |     |                                 |             |                                                                          |       |            |     |
| Dilution Factor                |  | 1                                                                                                                        |              |             |           |       | 1                        |     |                                 |             |                                                                          |       |            |     |
| Analysis Units                 |  | pg                                                                                                                       |              |             |           |       | pg                       |     |                                 |             |                                                                          |       |            |     |
| Instrument - Column            |  | HRMS 5 SPBOCTYL291719-06                                                                                                 |              |             |           |       | HRMS 5 SPBOCTYL291719-06 |     |                                 |             |                                                                          |       |            |     |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                        | Ret.<br>Time | Conc.<br>pg | EDL<br>pg | Flags | EMPC<br>pg               | LQL | Ret.<br>Time                    | Conc.<br>pg | EDL<br>pg                                                                | Flags | EMPC<br>pg | LQL |
| PCB-081                        |  | 0.0003                                                                                                                   |              |             |           |       |                          |     | 21.78                           | 575         | 34                                                                       |       |            | 150 |
| PCB-077                        |  | 0.0001                                                                                                                   |              |             |           |       |                          |     | 22.07                           | 7170        | 34                                                                       |       |            | 150 |
| PCB-123                        |  | 0.00003                                                                                                                  | 23.28        | 698         | 52        | M     |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-118                        |  | 0.00003                                                                                                                  | 23.46        | 29300       | 45        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-114                        |  | 0.00003                                                                                                                  | 23.76        | 890         | 51        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-105                        |  | 0.00003                                                                                                                  | 24.11        | 17300       | 64        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-126                        |  | 0.1                                                                                                                      |              |             |           |       |                          |     | 25.46                           | 1110        | 40                                                                       |       |            | 150 |
| PCB-167                        |  | 0.00003                                                                                                                  | 26.58        | 3780        | 49        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| PCB-156/157                    |  | 0.00003                                                                                                                  | 27.19        | 8680        | 69        |       |                          | 300 |                                 |             |                                                                          |       |            |     |
| PCB-169                        |  | 0.03                                                                                                                     |              |             |           |       |                          |     | 28.64                           | 295         | 20                                                                       | M     |            | 150 |
| PCB-189                        |  | 0.00003                                                                                                                  | 30.11        | 2520        | 45        |       |                          | 150 |                                 |             |                                                                          |       |            |     |
| Extraction Standards           |  | pg                                                                                                                       | Time         | % Rec       | Limits    |       |                          |     | Time                            | % Rec       | Limits                                                                   |       |            |     |
| 13C12-PCB-081                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 21.76                           | 82          | 10-145                                                                   |       |            |     |
| 13C12-PCB-077                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 22.06                           | 81          | 10-145                                                                   |       |            |     |
| 13C12-PCB-123                  |  | 6000                                                                                                                     | 23.28        | 88          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-118                  |  | 6000                                                                                                                     | 23.44        | 91          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-114                  |  | 6000                                                                                                                     | 23.75        | 85          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-105                  |  | 6000                                                                                                                     | 24.10        | 73          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-126                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 25.45                           | 94          | 10-145                                                                   |       |            |     |
| 13C12-PCB-167                  |  | 6000                                                                                                                     | 26.56        | 99          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-156/157              |  | 12000                                                                                                                    | 27.19        | 99          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-169                  |  | 6000                                                                                                                     |              |             |           |       |                          |     | 28.63                           | 130         | 10-145                                                                   |       |            |     |
| 13C12-PCB-189                  |  | 6000                                                                                                                     | 30.11        | 116         | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Field Spike Standards          |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-031                  |  | 8000                                                                                                                     | 16.01        | 90          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-095                  |  | 8000                                                                                                                     | 19.32        | 92          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-153                  |  | 8000                                                                                                                     | 24.36        | 98          | 70-130    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Cleanup Standards              |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-028                  |  | 6000                                                                                                                     | 16.18        | 80          | 5-145     |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-111                  |  | 6000                                                                                                                     | 22.22        | 69          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| 13C12-PCB-178                  |  | 6000                                                                                                                     | 25.23        | 57          | 10-145    |       |                          |     |                                 |             |                                                                          |       |            |     |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Lower Bound PCB TEQ            |  |                                                                                                                          |              | 123         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Mid Point PCB TEQ              |  |                                                                                                                          |              | 123         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| Upper Bound PCB TEQ            |  |                                                                                                                          |              | 123         |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                   |              |             |           |       | TEQ                      |     | Indicates the Toxic Equivalency |             |                                                                          |       |            |     |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| M                              |  | Indicates that a peak has been manually integrated.                                                                      |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                             |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                    |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |              |             |           |       |                          |     |                                 |             |                                                                          |       |            |     |

| ALS Life Sciences              |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|------------------|-------|------------|---------------------------------|------------------------------------------------------------|
| Sample Analysis Report         |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Sample Name                    |  | SVOC-ECA Test 1                                                                                                                                   |              |             | Sampling Date    |       | 8-Apr-25   |                                 | Approved:<br>Henna Saeed<br>--e-signature--<br>13-May-2025 |
| ALS Sample ID                  |  | BU2500942-004                                                                                                                                     |              |             | Extraction Date  |       | 16-Apr-25  |                                 |                                                            |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |              |             | Sample Size      |       | 1 sample   |                                 |                                                            |
| Analysis Type                  |  | Sample                                                                                                                                            |              |             | Percent Moisture |       | n/a        |                                 |                                                            |
| Sample Matrix                  |  | Impinger                                                                                                                                          |              |             | Split Ratio      |       | 6          |                                 |                                                            |
| Run Information                |  | Run 1                                                                                                                                             |              |             |                  |       |            |                                 |                                                            |
| Filename                       |  | 5-250423A25                                                                                                                                       |              |             |                  |       |            |                                 |                                                            |
| Run Date                       |  | 24-Apr-25 03:35                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Final Volume                   |  | 25 ul                                                                                                                                             |              |             |                  |       |            |                                 |                                                            |
| Dilution Factor                |  | 1                                                                                                                                                 |              |             |                  |       |            |                                 |                                                            |
| Analysis Units                 |  | pg                                                                                                                                                |              |             |                  |       |            |                                 |                                                            |
| Instrument - Column            |  | HRMS 5 SPBOCTYL291719-06                                                                                                                          |              |             |                  |       |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                                                 | Ret.<br>Time | Conc.<br>pg | EDL<br>pg        | Flags | EMPC<br>pg | LQL                             |                                                            |
| PCB-081                        |  | 0.0003                                                                                                                                            | 21.89        | <19         | 18               | J,R   | 19         | 150                             |                                                            |
| PCB-077                        |  | 0.0001                                                                                                                                            | 22.17        | 244         | 17               |       |            | 150                             |                                                            |
| PCB-123                        |  | 0.00003                                                                                                                                           | 23.12        | <30         | 14               | M,J,R | 30         | 150                             |                                                            |
| PCB-118                        |  | 0.00003                                                                                                                                           | 23.31        | 1210        | 11               |       |            | 150                             |                                                            |
| PCB-114                        |  | 0.00003                                                                                                                                           | 23.63        | 27.1        | 13               | J     |            | 150                             |                                                            |
| PCB-105                        |  | 0.00003                                                                                                                                           | 23.96        | <320        | 14               | R     | 320        | 150                             |                                                            |
| PCB-126                        |  | 0.1                                                                                                                                               | NotFnd       | <12         | 12               | U     |            | 150                             |                                                            |
| PCB-167                        |  | 0.00003                                                                                                                                           | 26.43        | 65.5        | 11               | J     |            | 150                             |                                                            |
| PCB-156/157                    |  | 0.00003                                                                                                                                           | 27.05        | 107         | 15               | J     |            | 300                             |                                                            |
| PCB-169                        |  | 0.03                                                                                                                                              | 28.68        | <11         | 11               | M,U   |            | 150                             |                                                            |
| PCB-189                        |  | 0.00003                                                                                                                                           | 29.98        | 23.2        | 14               | M,J   |            | 150                             |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Extraction Standards           |  | pg                                                                                                                                                | Time         | % Rec       | Limits           |       |            |                                 |                                                            |
| 13C12-PCB-081                  |  | 6000                                                                                                                                              | 21.86        | 73          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-077                  |  | 6000                                                                                                                                              | 22.16        | 80          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-123                  |  | 6000                                                                                                                                              | 23.13        | 77          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-118                  |  | 6000                                                                                                                                              | 23.30        | 84          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-114                  |  | 6000                                                                                                                                              | 23.60        | 80          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-105                  |  | 6000                                                                                                                                              | 23.95        | 75          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-126                  |  | 6000                                                                                                                                              | 25.52        | 87          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-167                  |  | 6000                                                                                                                                              | 26.42        | 78          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-156/157              |  | 12000                                                                                                                                             | 27.05        | 78          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-169                  |  | 6000                                                                                                                                              | 28.69        | 84          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-189                  |  | 6000                                                                                                                                              | 29.97        | 80          | 10-145           |       |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Field Spike Standards          |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| 13C12-PCB-031                  |  | 8000                                                                                                                                              | 15.97        | 85          | 70-130           |       |            |                                 |                                                            |
| 13C12-PCB-095                  |  | 8000                                                                                                                                              | 19.22        | 80          | 70-130           |       |            |                                 |                                                            |
| 13C12-PCB-153                  |  | 8000                                                                                                                                              | 24.22        | 97          | 70-130           |       |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Cleanup Standards              |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| 13C12-PCB-028                  |  | 6000                                                                                                                                              | 16.13        | 62          | 5-145            |       |            |                                 |                                                            |
| 13C12-PCB-111                  |  | 6000                                                                                                                                              | 22.08        | 65          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-178                  |  | 6000                                                                                                                                              | 25.10        | 43          | 10-145           |       |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |              | 0.0674      |                  |       |            |                                 |                                                            |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |              | 0.849       |                  |       |            |                                 |                                                            |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |              | 1.61        |                  |       |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |              |             |                  |       |            |                                 |                                                            |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |              |             |                  | TEQ   |            | Indicates the Toxic Equivalency |                                                            |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |              |             |                  |       |            |                                 |                                                            |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |              |             |                  |       |            |                                 |                                                            |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |              |             |                  |       |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |              |             |                  |       |            |                                 |                                                            |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |              |             |                  |       |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |              |             |                  |       |            |                                 |                                                            |

| ALS Life Sciences              |  |                                                                                                                          |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
|--------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|-------|-------|--------|-------|--------------------------|-------|---------------------------------|--------|------|--------------------------------------------------------------------------|-----|----|
| Sample Analysis Report         |  |                                                                                                                          |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| Sample Name                    |  | SVOC-ECA Test 2                                                                                                          |       |       |        |       | Sampling Date            |       | 8-Apr-25                        |        |      | <div>Approved:<br/>Henna Saeed<br/>--e-signature--<br/>13-May-2025</div> |     |    |
| ALS Sample ID                  |  | BU2500942-005                                                                                                            |       |       |        |       | Extraction Date          |       | 16-Apr-25                       |        |      |                                                                          |     |    |
| Analysis Method                |  | EPA 1668C                                                                                                                |       |       |        |       | Sample Size              |       | 1 sample                        |        |      |                                                                          |     |    |
| Analysis Type                  |  | Sample                                                                                                                   |       |       |        |       | Percent Moisture         |       | n/a                             |        |      |                                                                          |     |    |
| Sample Matrix                  |  | Impinger                                                                                                                 |       |       |        |       | Split Ratio              |       | 6                               |        |      |                                                                          |     |    |
| Run Information                |  | Run 1                                                                                                                    |       |       |        |       | Run 2                    |       |                                 |        |      |                                                                          |     |    |
| Filename                       |  | 5-250423A26                                                                                                              |       |       |        |       | 5-250508A27              |       |                                 |        |      |                                                                          |     |    |
| Run Date                       |  | 24-Apr-25 04:17                                                                                                          |       |       |        |       | 09-May-25 07:14          |       |                                 |        |      |                                                                          |     |    |
| Final Volume                   |  | 25 ul                                                                                                                    |       |       |        |       | 25 uL                    |       |                                 |        |      |                                                                          |     |    |
| Dilution Factor                |  | 1                                                                                                                        |       |       |        |       | 1                        |       |                                 |        |      |                                                                          |     |    |
| Analysis Units                 |  | pg                                                                                                                       |       |       |        |       | pg                       |       |                                 |        |      |                                                                          |     |    |
| Instrument - Column            |  | HRMS 5 SPBOCTYL291719-06                                                                                                 |       |       |        |       | HRMS 5 SPBOCTYL291719-06 |       |                                 |        |      |                                                                          |     |    |
| Target Analytes                |  | TEF                                                                                                                      | Ret.  | Conc. | EDL    | EMPC  |                          | Ret.  | Conc.                           | EDL    | EMPC |                                                                          |     |    |
|                                |  | (WHO 2005)                                                                                                               | Time  | pg    | pg     | Flags | pg                       | LQL   | Time                            | pg     | pg   | Flags                                                                    |     | pg |
| PCB-081                        |  | 0.0003                                                                                                                   |       |       |        |       |                          | 21.78 | 172                             | 11     |      |                                                                          | 150 |    |
| PCB-077                        |  | 0.0001                                                                                                                   |       |       |        |       |                          | 22.07 | 1610                            | 11     |      |                                                                          | 150 |    |
| PCB-123                        |  | 0.00003                                                                                                                  | 23.12 | <160  | 32     | M,R   | 160                      | 150   |                                 |        |      |                                                                          |     |    |
| PCB-118                        |  | 0.00003                                                                                                                  | 23.29 | 7550  | 28     |       |                          |       |                                 |        |      |                                                                          | 150 |    |
| PCB-114                        |  | 0.00003                                                                                                                  | 23.59 | 246   | 30     |       |                          |       |                                 |        |      |                                                                          | 150 |    |
| PCB-105                        |  | 0.00003                                                                                                                  | 23.94 | 3590  | 31     |       |                          |       |                                 |        |      |                                                                          | 150 |    |
| PCB-126                        |  | 0.1                                                                                                                      |       |       |        |       |                          | 25.46 | 170                             | 11     |      |                                                                          | 150 |    |
| PCB-167                        |  | 0.00003                                                                                                                  | 26.41 | 670   | 18     |       |                          |       |                                 |        |      |                                                                          | 150 |    |
| PCB-156/157                    |  | 0.00003                                                                                                                  | 27.03 | 1410  | 27     |       |                          |       |                                 |        |      |                                                                          | 300 |    |
| PCB-169                        |  | 0.03                                                                                                                     |       |       |        |       |                          | 28.63 | 29.1                            | 8.3    | M,J  |                                                                          | 150 |    |
| PCB-189                        |  | 0.00003                                                                                                                  | 29.97 | 273   | 15     |       |                          |       |                                 |        |      |                                                                          | 150 |    |
| Extraction Standards           |  | pg                                                                                                                       | Time  | % Rec | Limits |       |                          | Time  | % Rec                           | Limits |      |                                                                          |     |    |
| 13C12-PCB-081                  |  | 6000                                                                                                                     |       |       |        |       |                          | 21.77 | 58                              | 10-145 |      |                                                                          |     |    |
| 13C12-PCB-077                  |  | 6000                                                                                                                     |       |       |        |       |                          | 22.06 | 58                              | 10-145 |      |                                                                          |     |    |
| 13C12-PCB-123                  |  | 6000                                                                                                                     | 23.11 | 99    | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-118                  |  | 6000                                                                                                                     | 23.28 | 108   | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-114                  |  | 6000                                                                                                                     | 23.58 | 103   | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-105                  |  | 6000                                                                                                                     | 23.93 | 100   | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-126                  |  | 6000                                                                                                                     |       |       |        |       |                          | 25.45 | 55                              | 10-145 |      |                                                                          |     |    |
| 13C12-PCB-167                  |  | 6000                                                                                                                     | 26.39 | 97    | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-156/157              |  | 12000                                                                                                                    | 27.03 | 93    | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-169                  |  | 6000                                                                                                                     |       |       |        |       |                          | 28.63 | 84                              | 10-145 |      |                                                                          |     |    |
| 13C12-PCB-189                  |  | 6000                                                                                                                     | 29.95 | 104   | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| Field Spike Standards          |  |                                                                                                                          |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-031                  |  | 8000                                                                                                                     | 15.91 | 89    | 70-130 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-095                  |  | 8000                                                                                                                     | 19.18 | 81    | 70-130 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-153                  |  | 8000                                                                                                                     | 24.19 | 98    | 70-130 |       |                          |       |                                 |        |      |                                                                          |     |    |
| Cleanup Standards              |  |                                                                                                                          |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-028                  |  | 6000                                                                                                                     | 16.06 | 78    | 5-145  |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-111                  |  | 6000                                                                                                                     | 22.04 | 80    | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| 13C12-PCB-178                  |  | 6000                                                                                                                     | 25.09 | 61    | 10-145 |       |                          |       |                                 |        |      |                                                                          |     |    |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                          |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| Lower Bound PCB TEQ            |  |                                                                                                                          |       | 18.5  |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| Mid Point PCB TEQ              |  |                                                                                                                          |       | 18.5  |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| Upper Bound PCB TEQ            |  |                                                                                                                          |       | 18.5  |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.          |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                   |       |       |        |       | TEQ                      |       | Indicates the Toxic Equivalency |        |      |                                                                          |     |    |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.       |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| M                              |  | Indicates that a peak has been manually integrated.                                                                      |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                             |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                    |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure |       |       |        |       |                          |       |                                 |        |      |                                                                          |     |    |

| ALS Life Sciences              |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|------------------|----------|------------|---------------------------------|------------------------------------------------------------|
| Sample Analysis Report         |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| Sample Name                    |  | SVOC-ECA Test 3                                                                                                                                   |              |             | Sampling Date    |          | 8-Apr-25   |                                 | Approved:<br>Henna Saeed<br>--e-signature--<br>13-May-2025 |
| ALS Sample ID                  |  | BU2500942-006                                                                                                                                     |              |             | Extraction Date  |          | 16-Apr-25  |                                 |                                                            |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |              |             | Sample Size      |          | 1 sample   |                                 |                                                            |
| Analysis Type                  |  | Sample                                                                                                                                            |              |             | Percent Moisture |          | n/a        |                                 |                                                            |
| Sample Matrix                  |  | Impinger                                                                                                                                          |              |             | Split Ratio      |          | 6          |                                 |                                                            |
| Run Information                |  | Run 1                                                                                                                                             |              |             |                  |          |            |                                 |                                                            |
| Filename                       |  | 5-250423A27                                                                                                                                       |              |             |                  |          |            |                                 |                                                            |
| Run Date                       |  | 24-Apr-25 04:59                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| Final Volume                   |  | 25 ul                                                                                                                                             |              |             |                  |          |            |                                 |                                                            |
| Dilution Factor                |  | 1                                                                                                                                                 |              |             |                  |          |            |                                 |                                                            |
| Analysis Units                 |  | pg                                                                                                                                                |              |             |                  |          |            |                                 |                                                            |
| Instrument - Column            |  | HRMS 5 SPBOCTYL291719-06                                                                                                                          |              |             |                  |          |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                                                 | Ret.<br>Time | Conc.<br>pg | EDL<br>pg        | Flags    | EMPC<br>pg | LQL                             |                                                            |
| PCB-081                        |  | 0.0003                                                                                                                                            | 21.91        | <37         | 28               | J,R      | 37         | 150                             |                                                            |
| PCB-077                        |  | 0.0001                                                                                                                                            | 22.20        | 322         | 25               |          |            | 150                             |                                                            |
| PCB-123                        |  | 0.00003                                                                                                                                           | 23.16        | 31.5        | 23               | M,J      |            | 150                             |                                                            |
| PCB-118                        |  | 0.00003                                                                                                                                           | 23.34        | 1590        | 20               |          |            | 150                             |                                                            |
| PCB-114                        |  | 0.00003                                                                                                                                           | 23.65        | 58.4        | 21               | J        |            | 150                             |                                                            |
| PCB-105                        |  | 0.00003                                                                                                                                           | 23.99        | <510        | 22               | R        | 510        | 150                             |                                                            |
| PCB-126                        |  | 0.1                                                                                                                                               | 25.56        | <20         | 20               | M,J,R    | 20         | 150                             |                                                            |
| PCB-167                        |  | 0.00003                                                                                                                                           | 26.44        | 105         | 14               | J        |            | 150                             |                                                            |
| PCB-156/157                    |  | 0.00003                                                                                                                                           | 27.07        | 158         | 20               | J        |            | 300                             |                                                            |
| PCB-169                        |  | 0.03                                                                                                                                              | 28.74        | <18         | 13               | M,J,R,1. | 18         | 150                             |                                                            |
| PCB-189                        |  | 0.00003                                                                                                                                           | 29.99        | <16         | 12               | M,J,R    | 16         | 150                             |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| Extraction Standards           |  | pg                                                                                                                                                | Time         | % Rec       | Limits           |          |            |                                 |                                                            |
| 13C12-PCB-081                  |  | 6000                                                                                                                                              | 21.90        | 69          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-077                  |  | 6000                                                                                                                                              | 22.19        | 78          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-123                  |  | 6000                                                                                                                                              | 23.16        | 78          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-118                  |  | 6000                                                                                                                                              | 23.32        | 84          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-114                  |  | 6000                                                                                                                                              | 23.63        | 83          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-105                  |  | 6000                                                                                                                                              | 23.98        | 77          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-126                  |  | 6000                                                                                                                                              | 25.55        | 92          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-167                  |  | 6000                                                                                                                                              | 26.43        | 77          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-156/157              |  | 12000                                                                                                                                             | 27.07        | 76          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-169                  |  | 6000                                                                                                                                              | 28.71        | 90          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-189                  |  | 6000                                                                                                                                              | 29.99        | 85          | 10-145           |          |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| Field Spike Standards          |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| 13C12-PCB-031                  |  | 8000                                                                                                                                              | 16.03        | 90          | 70-130           |          |            |                                 |                                                            |
| 13C12-PCB-095                  |  | 8000                                                                                                                                              | 19.27        | 79          | 70-130           |          |            |                                 |                                                            |
| 13C12-PCB-153                  |  | 8000                                                                                                                                              | 24.24        | 92          | 70-130           |          |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| Cleanup Standards              |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| 13C12-PCB-028                  |  | 6000                                                                                                                                              | 16.19        | 54          | 5-145            |          |            |                                 |                                                            |
| 13C12-PCB-111                  |  | 6000                                                                                                                                              | 22.11        | 60          | 10-145           |          |            |                                 |                                                            |
| 13C12-PCB-178                  |  | 6000                                                                                                                                              | 25.11        | 37          | 10-145           |          |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| Lower Bound PCB TEQ            |  |                                                                                                                                                   |              | 0.0905      |                  |          |            |                                 |                                                            |
| Mid Point PCB TEQ              |  |                                                                                                                                                   |              | 2.66        |                  |          |            |                                 |                                                            |
| Upper Bound PCB TEQ            |  |                                                                                                                                                   |              | 2.66        |                  |          |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |              |             |                  |          |            |                                 |                                                            |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |              |             |                  | TEQ      |            | Indicates the Toxic Equivalency |                                                            |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |              |             |                  |          |            |                                 |                                                            |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |              |             |                  |          |            |                                 |                                                            |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |              |             |                  |          |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |              |             |                  |          |            |                                 |                                                            |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |              |             |                  |          |            |                                 |                                                            |
|                                |  |                                                                                                                                                   |              |             |                  |          |            |                                 |                                                            |
| 1.                             |  | This result is an EMPC                                                                                                                            |              |             |                  |          |            |                                 |                                                            |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |              |             |                  |          |            |                                 |                                                            |

| ALS Life Sciences              |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
|--------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|------------------|-------|------------|---------------------------------|------------------------------------------------------------|
| Sample Analysis Report         |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Sample Name                    |  | SVOC Blank                                                                                                                                        |              |             | Sampling Date    |       | 8-Apr-25   |                                 | Approved:<br>Henna Saeed<br>--e-signature--<br>13-May-2025 |
| ALS Sample ID                  |  | BU2500942-007                                                                                                                                     |              |             | Extraction Date  |       | 16-Apr-25  |                                 |                                                            |
| Analysis Method                |  | EPA 1668C                                                                                                                                         |              |             | Sample Size      |       | 1 sample   |                                 |                                                            |
| Analysis Type                  |  | Sample                                                                                                                                            |              |             | Percent Moisture |       | n/a        |                                 |                                                            |
| Sample Matrix                  |  | Impinger                                                                                                                                          |              |             | Split Ratio      |       | 6          |                                 |                                                            |
| Run Information                |  | Run 1                                                                                                                                             |              |             |                  |       |            |                                 |                                                            |
| Filename                       |  | 5-250423A28                                                                                                                                       |              |             |                  |       |            |                                 |                                                            |
| Run Date                       |  | 24-Apr-25 05:41                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Final Volume                   |  | 25 ul                                                                                                                                             |              |             |                  |       |            |                                 |                                                            |
| Dilution Factor                |  | 1                                                                                                                                                 |              |             |                  |       |            |                                 |                                                            |
| Analysis Units                 |  | pg                                                                                                                                                |              |             |                  |       |            |                                 |                                                            |
| Instrument - Column            |  | HRMS 5 SPBOCTYL291719-06                                                                                                                          |              |             |                  |       |            |                                 |                                                            |
| Target Analytes                |  | TEF<br>(WHO 2005)                                                                                                                                 | Ret.<br>Time | Conc.<br>pg | EDL<br>pg        | Flags | EMPC<br>pg | LQL                             |                                                            |
| PCB-081                        |  | 0.0003                                                                                                                                            | NotFnd       | <7.7        | 7.7              | U     |            | 150                             |                                                            |
| PCB-077                        |  | 0.0001                                                                                                                                            | 22.11        | <8.0        | 8.0              | U     | 6.1        | 150                             |                                                            |
| PCB-123                        |  | 0.00003                                                                                                                                           | NotFnd       | <4.5        | 4.5              | U     |            | 150                             |                                                            |
| PCB-118                        |  | 0.00003                                                                                                                                           | 23.26        | 36.9        | 4.0              | J     |            | 150                             |                                                            |
| PCB-114                        |  | 0.00003                                                                                                                                           | NotFnd       | <4.5        | 4.5              | U     |            | 150                             |                                                            |
| PCB-105                        |  | 0.00003                                                                                                                                           | 23.92        | <9.8        | 4.6              | J,R   | 9.8        | 150                             |                                                            |
| PCB-126                        |  | 0.1                                                                                                                                               | NotFnd       | <4.2        | 4.2              | U     |            | 150                             |                                                            |
| PCB-167                        |  | 0.00003                                                                                                                                           | NotFnd       | <3.7        | 3.7              | U     |            | 150                             |                                                            |
| PCB-156/157                    |  | 0.00003                                                                                                                                           | NotFnd       | <5.6        | 5.6              | U     |            | 300                             |                                                            |
| PCB-169                        |  | 0.03                                                                                                                                              | NotFnd       | <3.4        | 3.4              | U     |            | 150                             |                                                            |
| PCB-189                        |  | 0.00003                                                                                                                                           | NotFnd       | <4.4        | 4.4              | U     |            | 150                             |                                                            |
| Extraction Standards           |  | pg                                                                                                                                                | Time         | % Rec       | Limits           |       |            |                                 |                                                            |
| 13C12-PCB-081                  |  | 6000                                                                                                                                              | 21.80        | 82          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-077                  |  | 6000                                                                                                                                              | 22.10        | 82          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-123                  |  | 6000                                                                                                                                              | 23.08        | 93          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-118                  |  | 6000                                                                                                                                              | 23.25        | 97          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-114                  |  | 6000                                                                                                                                              | 23.55        | 93          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-105                  |  | 6000                                                                                                                                              | 23.90        | 87          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-126                  |  | 6000                                                                                                                                              | 25.49        | 102         | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-167                  |  | 6000                                                                                                                                              | 26.38        | 91          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-156/157              |  | 12000                                                                                                                                             | 27.01        | 88          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-169                  |  | 6000                                                                                                                                              | 28.67        | 108         | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-189                  |  | 6000                                                                                                                                              | 29.94        | 100         | 10-145           |       |            |                                 |                                                            |
| Field Spike Standards          |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| 13C12-PCB-031                  |  | 8000                                                                                                                                              | 15.84        | 95          | 70-130           |       |            |                                 |                                                            |
| 13C12-PCB-095                  |  | 8000                                                                                                                                              | 19.13        | 80          | 70-130           |       |            |                                 |                                                            |
| 13C12-PCB-153                  |  | 8000                                                                                                                                              | 24.17        | 93          | 70-130           |       |            |                                 |                                                            |
| Cleanup Standards              |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| 13C12-PCB-028                  |  | 6000                                                                                                                                              | 16.00        | 57          | 5-145            |       |            |                                 |                                                            |
| 13C12-PCB-111                  |  | 6000                                                                                                                                              | 22.03        | 68          | 10-145           |       |            |                                 |                                                            |
| 13C12-PCB-178                  |  | 6000                                                                                                                                              | 25.06        | 78          | 10-145           |       |            |                                 |                                                            |
| Toxic Equivalency - (WHO 2005) |  |                                                                                                                                                   |              |             |                  |       |            |                                 |                                                            |
| Lower Bound PCB TEQ            |  | 0.00111                                                                                                                                           |              |             |                  |       |            |                                 |                                                            |
| Mid Point PCB TEQ              |  | 0.264                                                                                                                                             |              |             |                  |       |            |                                 |                                                            |
| Upper Bound PCB TEQ            |  | 0.527                                                                                                                                             |              |             |                  |       |            |                                 |                                                            |
| EDL                            |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |              |             |                  |       |            |                                 |                                                            |
| TEF                            |  | Indicates the Toxic Equivalency Factor                                                                                                            |              |             |                  | TEQ   |            | Indicates the Toxic Equivalency |                                                            |
| LQL                            |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |              |             |                  |       |            |                                 |                                                            |
| M                              |  | Indicates that a peak has been manually integrated.                                                                                               |              |             |                  |       |            |                                 |                                                            |
| U                              |  | Indicates that this compound was not detected above the EDL.                                                                                      |              |             |                  |       |            |                                 |                                                            |
| J                              |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |              |             |                  |       |            |                                 |                                                            |
| R                              |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |              |             |                  |       |            |                                 |                                                            |
| EMPC                           |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |              |             |                  |       |            |                                 |                                                            |

| ALS Life Sciences                       |  |                                                                                                                                                   |              |               |                  |       |              |                                 |                                                            |
|-----------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|------------------|-------|--------------|---------------------------------|------------------------------------------------------------|
| Laboratory Method Blank Analysis Report |  |                                                                                                                                                   |              |               |                  |       |              |                                 |                                                            |
| Sample Name                             |  | MB                                                                                                                                                |              |               | Sampling Date    |       | n/a          |                                 | Approved:<br>Henna Saeed<br>--e-signature--<br>13-May-2025 |
| ALS Sample ID                           |  | QC-MRGG2-1952762-001                                                                                                                              |              |               | Extraction Date  |       | 16-Apr-25    |                                 |                                                            |
| Analysis Method                         |  | EPA 1668C                                                                                                                                         |              |               | Sample Size      |       | 1 sample     |                                 |                                                            |
| Analysis Type                           |  | Blank                                                                                                                                             |              |               | Percent Moisture |       | n/a          |                                 |                                                            |
| Sample Matrix                           |  | QC                                                                                                                                                |              |               | Split Ratio      |       | 6            |                                 |                                                            |
| Run Information                         |  | Run 1                                                                                                                                             |              |               |                  |       |              |                                 |                                                            |
| Filename                                |  | 5-250423A21                                                                                                                                       |              |               |                  |       |              |                                 |                                                            |
| Run Date                                |  | 24-Apr-25 00:46                                                                                                                                   |              |               |                  |       |              |                                 |                                                            |
| Final Volume                            |  | 25 ul                                                                                                                                             |              |               |                  |       |              |                                 |                                                            |
| Dilution Factor                         |  | 1                                                                                                                                                 |              |               |                  |       |              |                                 |                                                            |
| Analysis Units                          |  | pg/g                                                                                                                                              |              |               |                  |       |              |                                 |                                                            |
| Instrument - Column                     |  | HRMS 5 SPBOCTYL291719-06                                                                                                                          |              |               |                  |       |              |                                 |                                                            |
| Target Analytes                         |  | TEF<br>(WHO 2005)                                                                                                                                 | Ret.<br>Time | Conc.<br>pg/g | EDL<br>pg/g      | Flags | EMPC<br>pg/g | LQL                             |                                                            |
| PCB-081                                 |  | 0.0003                                                                                                                                            | NotFnd       | <8.3          | 8.3              | U     |              | 150                             |                                                            |
| PCB-077                                 |  | 0.0001                                                                                                                                            | NotFnd       | <8.3          | 8.3              | U     |              | 150                             |                                                            |
| PCB-123                                 |  | 0.00003                                                                                                                                           | NotFnd       | <6.8          | 6.8              | U     |              | 150                             |                                                            |
| PCB-118                                 |  | 0.00003                                                                                                                                           | NotFnd       | <5.4          | 5.4              | U     |              | 150                             |                                                            |
| PCB-114                                 |  | 0.00003                                                                                                                                           | NotFnd       | <6.5          | 6.5              | U     |              | 150                             |                                                            |
| PCB-105                                 |  | 0.00003                                                                                                                                           | 23.89        | <6.3          | 6.3              | U     | 5.7          | 150                             |                                                            |
| PCB-126                                 |  | 0.1                                                                                                                                               | NotFnd       | <6.0          | 6.0              | U     |              | 150                             |                                                            |
| PCB-167                                 |  | 0.00003                                                                                                                                           | NotFnd       | <2.9          | 2.9              | U     |              | 150                             |                                                            |
| PCB-156/157                             |  | 0.00003                                                                                                                                           | NotFnd       | <3.9          | 3.9              | U     |              | 300                             |                                                            |
| PCB-169                                 |  | 0.03                                                                                                                                              | NotFnd       | <2.6          | 2.6              | U     |              | 150                             |                                                            |
| PCB-189                                 |  | 0.00003                                                                                                                                           | NotFnd       | <3.2          | 3.2              | U     |              | 150                             |                                                            |
| Extraction Standards                    |  | pg                                                                                                                                                | Time         | % Rec         | Limits           |       |              |                                 |                                                            |
| 13C12-PCB-081                           |  | 6000                                                                                                                                              | 21.79        | 46            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-077                           |  | 6000                                                                                                                                              | 22.09        | 47            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-123                           |  | 6000                                                                                                                                              | 23.07        | 49            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-118                           |  | 6000                                                                                                                                              | 23.24        | 58            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-114                           |  | 6000                                                                                                                                              | 23.54        | 51            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-105                           |  | 6000                                                                                                                                              | 23.89        | 53            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-126                           |  | 6000                                                                                                                                              | 25.48        | 58            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-167                           |  | 6000                                                                                                                                              | 26.37        | 60            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-156/157                       |  | 12000                                                                                                                                             | 27.00        | 63            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-169                           |  | 6000                                                                                                                                              | 28.65        | 73            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-189                           |  | 6000                                                                                                                                              | 29.92        | 73            | 10-145           |       |              |                                 |                                                            |
| Field Spike Standards                   |  |                                                                                                                                                   |              |               |                  |       |              |                                 |                                                            |
| 13C12-PCB-031                           |  | 0                                                                                                                                                 |              | NS            |                  |       |              |                                 |                                                            |
| 13C12-PCB-095                           |  | 0                                                                                                                                                 |              | NS            |                  |       |              |                                 |                                                            |
| 13C12-PCB-153                           |  | 0                                                                                                                                                 |              | NS            |                  |       |              |                                 |                                                            |
| Cleanup Standards                       |  |                                                                                                                                                   |              |               |                  |       |              |                                 |                                                            |
| 13C12-PCB-028                           |  | 6000                                                                                                                                              | 16.00        | 47            | 5-145            |       |              |                                 |                                                            |
| 13C12-PCB-111                           |  | 6000                                                                                                                                              | 22.01        | 53            | 10-145           |       |              |                                 |                                                            |
| 13C12-PCB-178                           |  | 6000                                                                                                                                              | 25.05        | 63            | 10-145           |       |              |                                 |                                                            |
| Toxic Equivalency - (WHO 2005)          |  |                                                                                                                                                   |              |               |                  |       |              |                                 |                                                            |
| Lower Bound PCB TEQ                     |  |                                                                                                                                                   |              | 0.00          |                  |       |              |                                 |                                                            |
| Mid Point PCB TEQ                       |  |                                                                                                                                                   |              | 0.341         |                  |       |              |                                 |                                                            |
| Upper Bound PCB TEQ                     |  |                                                                                                                                                   |              | 0.682         |                  |       |              |                                 |                                                            |
| EDL                                     |  | Indicates the Estimated Detection Limit, based on the measured background noise for this target in this sample.                                   |              |               |                  |       |              |                                 |                                                            |
| TEF                                     |  | Indicates the Toxic Equivalency Factor                                                                                                            |              |               |                  | TEQ   |              | Indicates the Toxic Equivalency |                                                            |
| LQL                                     |  | Lower Quantification Limit, based on the lowest calibration level corrected for sample size, splits and dilutions.                                |              |               |                  |       |              |                                 |                                                            |
| M                                       |  | Indicates that a peak has been manually integrated.                                                                                               |              |               |                  |       |              |                                 |                                                            |
| U                                       |  | Indicates that this compound was not detected above the EDL.                                                                                      |              |               |                  |       |              |                                 |                                                            |
| NS                                      |  | Indicates that this compound was not added.                                                                                                       |              |               |                  |       |              |                                 |                                                            |
| J                                       |  | Indicates that the analyte was positively identified. The associated numerical result is an estimate.                                             |              |               |                  |       |              |                                 |                                                            |
| R                                       |  | Indicates that the ion abundance ratio for this analyte did not meet the control limit. The reported value represents an estimated concentration. |              |               |                  |       |              |                                 |                                                            |
| EMPC                                    |  | Estimated Maximum Possible Concentration – elevated detection limit due to interference or positive id criterion failure                          |              |               |                  |       |              |                                 |                                                            |

| ALS Life Sciences                         |  |                                             |           |                          |        |           |  |                                                            |  |
|-------------------------------------------|--|---------------------------------------------|-----------|--------------------------|--------|-----------|--|------------------------------------------------------------|--|
| Laboratory Control Sample Analysis Report |  |                                             |           |                          |        |           |  |                                                            |  |
| Sample Name                               |  | LCS                                         |           | Sampling Date            |        | n/a       |  | Approved:<br>Henna Saeed<br>--e-signature--<br>13-May-2025 |  |
| ALS Sample ID                             |  | QC-MRGG2-1952762-002                        |           | Extraction Date          |        | 16-Apr-25 |  |                                                            |  |
| Analysis Method                           |  | EPA 1668C                                   |           | Sample Size              |        | 1 n/a     |  |                                                            |  |
| Analysis Type                             |  | LCS                                         |           | Percent Moisture         |        | n/a       |  |                                                            |  |
| Sample Matrix                             |  | QC                                          |           | Split Ratio              |        | 6         |  |                                                            |  |
| Run Information                           |  |                                             |           | Run 1                    |        |           |  |                                                            |  |
| Filename                                  |  |                                             |           | 5-250423A19              |        |           |  |                                                            |  |
| Run Date                                  |  |                                             |           | 23-Apr-25 23:22          |        |           |  |                                                            |  |
| Final Volume                              |  |                                             |           | 25 ul                    |        |           |  |                                                            |  |
| Dilution Factor                           |  |                                             |           | 1                        |        |           |  |                                                            |  |
| Analysis Units                            |  |                                             |           | % Rec                    |        |           |  |                                                            |  |
| Instrument - Column                       |  |                                             |           | HRMS 5 SPBOCTYL291719-06 |        |           |  |                                                            |  |
|                                           |  |                                             |           |                          |        |           |  |                                                            |  |
| Target Analytes                           |  | pg                                          | Ret. Time | % Rec                    | Limits | Flags     |  |                                                            |  |
| PCB-081                                   |  | 3000                                        | 21.80     | 101                      | 60-135 |           |  |                                                            |  |
| PCB-077                                   |  | 3000                                        | 22.11     | 100                      | 60-135 |           |  |                                                            |  |
| PCB-123                                   |  | 3000                                        | 23.09     | 106                      | 60-135 |           |  |                                                            |  |
| PCB-118                                   |  | 3000                                        | 23.25     | 93                       | 60-135 |           |  |                                                            |  |
| PCB-114                                   |  | 3000                                        | 23.57     | 101                      | 60-135 |           |  |                                                            |  |
| PCB-105                                   |  | 3000                                        | 23.92     | 104                      | 60-135 |           |  |                                                            |  |
| PCB-126                                   |  | 3000                                        | 25.49     | 98                       | 60-135 |           |  |                                                            |  |
| PCB-167                                   |  | 3000                                        | 26.38     | 96                       | 60-135 |           |  |                                                            |  |
| PCB-156/157                               |  | 6000                                        | 27.02     | 95                       | 60-135 |           |  |                                                            |  |
| PCB-169                                   |  | 3000                                        | 28.67     | 97                       | 60-135 |           |  |                                                            |  |
| PCB-189                                   |  | 3000                                        | 29.94     | 100                      | 60-135 |           |  |                                                            |  |
|                                           |  |                                             |           |                          |        |           |  |                                                            |  |
| Extraction Standards                      |  |                                             | Time      | % Rec                    | Limits |           |  |                                                            |  |
| 13C12-PCB-081                             |  | 6000                                        | 21.79     | 44                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-077                             |  | 6000                                        | 22.09     | 46                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-123                             |  | 6000                                        | 23.07     | 48                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-118                             |  | 6000                                        | 23.24     | 56                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-114                             |  | 6000                                        | 23.55     | 51                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-105                             |  | 6000                                        | 23.90     | 55                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-126                             |  | 6000                                        | 25.48     | 63                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-167                             |  | 6000                                        | 26.37     | 62                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-156/157                         |  | 12000                                       | 27.01     | 66                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-169                             |  | 6000                                        | 28.65     | 81                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-189                             |  | 6000                                        | 29.92     | 83                       | 40-145 |           |  |                                                            |  |
|                                           |  |                                             |           |                          |        |           |  |                                                            |  |
| Field Spike Standards                     |  |                                             |           |                          |        |           |  |                                                            |  |
| 13C12-PCB-031                             |  | 0                                           |           | NS                       |        |           |  |                                                            |  |
| 13C12-PCB-095                             |  | 0                                           |           | NS                       |        |           |  |                                                            |  |
| 13C12-PCB-153                             |  | 0                                           |           | NS                       |        |           |  |                                                            |  |
|                                           |  |                                             |           |                          |        |           |  |                                                            |  |
| Cleanup Standards                         |  |                                             |           |                          |        |           |  |                                                            |  |
| 13C12-PCB-028                             |  | 6000                                        | 16.00     | 39                       | 15-145 |           |  |                                                            |  |
| 13C12-PCB-111                             |  | 6000                                        | 22.01     | 44                       | 40-145 |           |  |                                                            |  |
| 13C12-PCB-178                             |  | 6000                                        | 25.05     | 59                       | 40-145 |           |  |                                                            |  |
|                                           |  |                                             |           |                          |        |           |  |                                                            |  |
| NS                                        |  | Indicates that this compound was not added. |           |                          |        |           |  |                                                            |  |
|                                           |  |                                             |           |                          |        |           |  |                                                            |  |



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Tobi Odumoye  
RWDI – Air Inc  
600 Southgate Drive  
Guelph, Ontario N1G 4P6

Generated 4/30/2025 8:51:46 AM

## JOB DESCRIPTION

RWDI: AIR SMC St Marys

## JOB NUMBER

140-41580-1

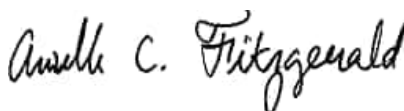
# Eurofins Knoxville

## Job Notes

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## Authorization



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# Definitions/Glossary

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *3        | ISTD response or retention time outside acceptable limits.                                                     |
| E         | Result exceeded calibration range.                                                                             |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1+       | Surrogate recovery exceeds control limits, high biased.                                                        |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: RWDI – Air Inc  
Project: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

**Job ID: 140-41580-1**

**Eurofins Knoxville**

### Job Narrative 140-41580-1

#### Receipt

The samples were received on 4/16/2025 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.5° C.

#### GC/MS VOA

Method 8260B: Surrogate recovery for the following sample was outside of acceptance limits: ST MARYS RAW MILL ON VOST TEST 3 TENAX/TENAX CHARCOAL (140-41580-3). The entire sample was consumed during analysis or extraction, therefore, the data have been reported.

Method 8260B: Internal standard (ISTD) response for the following sample was outside of acceptance limits: ST MARYS RAW MILL ON VOST TEST 3 TENAX/TENAX CHARCOAL (140-41580-3). The sample(s) was not re-analyzed due the sample being completely consumed during analysis.

Method 8260B: The results for various analyte(s) are estimated due to mass spectrometer saturation in the following listed sample: ST MARYS RAW MILL ON VOST TEST 3 TENAX/TENAX CHARCOAL (140-41580-3). The extrapolation of results above the quantitation range can lead to significant quantitative error, especially when peak saturation is observed.

Method 8260B: The concentration(s) of methylene chloride in the following samples exceeded the calibration range of the instrument: ST MARYS RAW MILL ON VOST TEST 1 TENAX/TENAX CHARCOAL (140-41580-1) and ST MARYS RAW MILL ON VOST TEST 2 TENAX/TENAX CHARCOAL (140-41580-2). Reanalysis at a dilution was not possible because the entire sample was consumed during analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Detection Summary

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Client Sample ID: ST MARYS RAW MILL ON VOST TEST 1 TENAX/TENAX CHARCOAL

Lab Sample ID: 140-41580-1

| Analyte                 | Result | Qualifier | RL    | MDL    | Unit      | Dil Fac | D | Method | Prep Type |
|-------------------------|--------|-----------|-------|--------|-----------|---------|---|--------|-----------|
| Benzene                 | 0.011  |           | 0.010 | 0.0036 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Dichlorodifluoromethane | 0.013  | J         | 0.025 | 0.013  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Methylene Chloride      | 18     | E         | 0.10  | 0.086  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Toluene                 | 0.018  | J         | 0.025 | 0.012  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Trichlorofluoromethane  | 0.010  | J         | 0.050 | 0.0053 | ug/Sample | 1       |   | 8260B  | Total/NA  |

## Client Sample ID: ST MARYS RAW MILL ON VOST TEST 2 TENAX/TENAX CHARCOAL

Lab Sample ID: 140-41580-2

| Analyte                | Result | Qualifier | RL    | MDL    | Unit      | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-----------|---------|---|--------|-----------|
| Acetone                | 0.22   | J         | 0.25  | 0.15   | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Methylene Chloride     | 8.2    | E         | 0.10  | 0.086  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Toluene                | 0.088  |           | 0.025 | 0.012  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Trichlorofluoromethane | 0.0057 | J         | 0.050 | 0.0053 | ug/Sample | 1       |   | 8260B  | Total/NA  |

## Client Sample ID: ST MARYS RAW MILL ON VOST TEST 3 TENAX/TENAX CHARCOAL

Lab Sample ID: 140-41580-3

| Analyte                | Result | Qualifier | RL    | MDL    | Unit      | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-------|--------|-----------|---------|---|--------|-----------|
| Acetone                | 45     | E         | 0.25  | 0.15   | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Benzene                | 12     | E         | 0.010 | 0.0036 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Bromobenzene           | 0.019  |           | 0.010 | 0.0045 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Bromomethane           | 0.37   |           | 0.050 | 0.028  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| 2-Butanone (MEK)       | 16     | E         | 0.10  | 0.066  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| n-Butylbenzene         | 0.40   | *3        | 0.025 | 0.0058 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| sec-Butylbenzene       | 0.12   | *3        | 0.025 | 0.0054 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Carbon disulfide       | 6.6    | E         | 0.025 | 0.0055 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Chlorobenzene          | 1.1    |           | 0.010 | 0.0036 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Chloroethane           | 0.37   |           | 0.050 | 0.022  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Chloromethane          | 2.5    | E         | 0.050 | 0.046  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| 1,2-Dichlorobenzene    | 0.012  | *3        | 0.010 | 0.0071 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| 1,3-Dichlorobenzene    | 0.033  | *3        | 0.010 | 0.0070 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| 1,4-Dichlorobenzene    | 0.019  | *3        | 0.010 | 0.0043 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Ethylbenzene           | 3.7    | E         | 0.010 | 0.0028 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| 2-Hexanone             | 7.8    |           | 0.10  | 0.061  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Isopropylbenzene       | 0.19   |           | 0.010 | 0.0030 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| 4-Isopropyltoluene     | 0.14   | *3        | 0.010 | 0.0048 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Methylene Chloride     | 3.1    | E         | 0.10  | 0.086  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Naphthalene            | 0.19   | *3        | 0.10  | 0.021  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| N-Propylbenzene        | 5.5    | E *3      | 0.010 | 0.0045 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Styrene                | 4.9    | E         | 0.010 | 0.0066 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Toluene                | 8.3    | E         | 0.025 | 0.012  | ug/Sample | 1       |   | 8260B  | Total/NA  |
| 1,2,4-Trimethylbenzene | 2.2    | E *3      | 0.010 | 0.0038 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| 1,3,5-Trimethylbenzene | 0.82   | *3        | 0.010 | 0.0026 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Vinyl chloride         | 0.32   |           | 0.025 | 0.0064 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| o-Xylene               | 2.7    | E         | 0.010 | 0.0035 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| m,p-Xylene             | 5.3    | E         | 0.020 | 0.0070 | ug/Sample | 1       |   | 8260B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

Eurofins Knoxville

## Detection Summary

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

**Client Sample ID: MEDIA CHECK A-2675 TENAX,A-2676  
TENAX/CHARCOAL**

**Lab Sample ID: 140-41580-4**

| Analyte            | Result | Qualifier | RL    | MDL   | Unit      | Dil Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-------|-------|-----------|---------|---|--------|-----------|
| Methylene Chloride | 0.20   |           | 0.10  | 0.086 | ug/Sample | 1       |   | 8260B  | Total/NA  |
| Toluene            | 0.012  | J         | 0.025 | 0.012 | ug/Sample | 1       |   | 8260B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

Client Sample ID: ST MARYS RAW MILL ON VOST TEST 1

Lab Sample ID: 140-41580-1

TENAX/TENAX CHARCOAL

Date Collected: 04/08/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                     | Result | Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|--------|-----------|---|----------|----------------|---------|
| Acetone                     | ND     |           | 0.25  | 0.15   | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Benzene                     | 0.011  |           | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Bromobenzene                | ND     |           | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Bromochloromethane          | ND     |           | 0.025 | 0.0081 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Bromodichloromethane        | ND     |           | 0.010 | 0.0017 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Bromoform                   | ND     |           | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Bromomethane                | ND     |           | 0.050 | 0.028  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 2-Butanone (MEK)            | ND     |           | 0.10  | 0.066  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| n-Butylbenzene              | ND     |           | 0.025 | 0.0058 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| sec-Butylbenzene            | ND     |           | 0.025 | 0.0054 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| tert-Butylbenzene           | ND     |           | 0.010 | 0.0051 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Carbon disulfide            | ND     |           | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Carbon tetrachloride        | ND     |           | 0.010 | 0.0075 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Chlorobenzene               | ND     |           | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Chlorodibromomethane        | ND     |           | 0.025 | 0.0037 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Chloroethane                | ND     |           | 0.050 | 0.022  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Chloroform                  | ND     |           | 0.010 | 0.0081 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Chloromethane               | ND     |           | 0.050 | 0.046  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.010 | 0.0039 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 4-Chlorotoluene             | ND     |           | 0.010 | 0.0044 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.050 | 0.011  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2-Dibromoethane (EDB)     | ND     |           | 0.025 | 0.0073 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Dibromomethane              | ND     |           | 0.025 | 0.0042 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.010 | 0.0071 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.010 | 0.0070 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Dichlorodifluoromethane     | 0.013  | J         | 0.025 | 0.013  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.010 | 0.0027 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.010 | 0.0032 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.010 | 0.0037 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.010 | 0.0020 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.010 | 0.0050 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.010 | 0.0049 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.010 | 0.0025 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.010 | 0.0034 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Ethylbenzene                | ND     |           | 0.010 | 0.0028 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.025 | 0.018  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 2-Hexanone                  | ND     |           | 0.10  | 0.061  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Isopropylbenzene            | ND     |           | 0.010 | 0.0030 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.010 | 0.0048 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Methylene Chloride          | 18     | E         | 0.10  | 0.086  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 0.10  | 0.036  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Naphthalene                 | ND     |           | 0.10  | 0.021  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| N-Propylbenzene             | ND     |           | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 16:16 | 1       |

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# Client Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

Client Sample ID: ST MARYS RAW MILL ON VOST TEST 1

Lab Sample ID: 140-41580-1

TENAX/TENAX CHARCOAL

Date Collected: 04/08/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                       | Result       | Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------------|-----------|-------|--------|-----------|---|----------|----------------|---------|
| Styrene                       | ND           |           | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,1,1,2-Tetrachloroethane     | ND           |           | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,1,2,2-Tetrachloroethane     | ND           |           | 0.025 | 0.010  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Tetrachloroethene             | ND           |           | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| <b>Toluene</b>                | <b>0.018</b> | <b>J</b>  | 0.025 | 0.012  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2,3-Trichlorobenzene        | ND           |           | 0.025 | 0.025  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2,4-Trichlorobenzene        | ND           |           | 0.025 | 0.021  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,1,1-Trichloroethane         | ND           |           | 0.025 | 0.0097 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,1,2-Trichloroethane         | ND           |           | 0.025 | 0.0076 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Trichloroethene               | ND           |           | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| <b>Trichlorofluoromethane</b> | <b>0.010</b> | <b>J</b>  | 0.050 | 0.0053 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2,3-Trichloropropane        | ND           |           | 0.025 | 0.010  | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,2,4-Trimethylbenzene        | ND           |           | 0.010 | 0.0038 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| 1,3,5-Trimethylbenzene        | ND           |           | 0.010 | 0.0026 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| Vinyl chloride                | ND           |           | 0.025 | 0.0064 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| o-Xylene                      | ND           |           | 0.010 | 0.0035 | ug/Sample |   |          | 04/21/25 16:16 | 1       |
| m,p-Xylene                    | ND           |           | 0.020 | 0.0070 | ug/Sample |   |          | 04/21/25 16:16 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 73        |           | 50 - 127 |          | 04/21/25 16:16 | 1       |
| 4-Bromofluorobenzene (Surr)  | 70        |           | 50 - 122 |          | 04/21/25 16:16 | 1       |
| Dibromofluoromethane (Surr)  | 90        |           | 50 - 134 |          | 04/21/25 16:16 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 57 - 134 |          | 04/21/25 16:16 | 1       |

Client Sample ID: ST MARYS RAW MILL ON VOST TEST 2

Lab Sample ID: 140-41580-2

TENAX/TENAX CHARCOAL

Date Collected: 04/08/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte              | Result      | Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|----------------------|-------------|-----------|-------|--------|-----------|---|----------|----------------|---------|
| <b>Acetone</b>       | <b>0.22</b> | <b>J</b>  | 0.25  | 0.15   | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Benzene              | ND          |           | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Bromobenzene         | ND          |           | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Bromochloromethane   | ND          |           | 0.025 | 0.0081 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Bromodichloromethane | ND          |           | 0.010 | 0.0017 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Bromoform            | ND          |           | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Bromomethane         | ND          |           | 0.050 | 0.028  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 2-Butanone (MEK)     | ND          |           | 0.10  | 0.066  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| n-Butylbenzene       | ND          |           | 0.025 | 0.0058 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| sec-Butylbenzene     | ND          |           | 0.025 | 0.0054 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| tert-Butylbenzene    | ND          |           | 0.010 | 0.0051 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Carbon disulfide     | ND          |           | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Carbon tetrachloride | ND          |           | 0.010 | 0.0075 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Chlorobenzene        | ND          |           | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Chlorodibromomethane | ND          |           | 0.025 | 0.0037 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Chloroethane         | ND          |           | 0.050 | 0.022  | ug/Sample |   |          | 04/21/25 16:40 | 1       |

Eurofins Knoxville

# Client Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

Client Sample ID: ST MARYS RAW MILL ON VOST TEST 2

Lab Sample ID: 140-41580-2

TENAX/TENAX CHARCOAL

Date Collected: 04/08/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                     | Result | Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|--------|-----------|---|----------|----------------|---------|
| Chloroform                  | ND     |           | 0.010 | 0.0081 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Chloromethane               | ND     |           | 0.050 | 0.046  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.010 | 0.0039 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 4-Chlorotoluene             | ND     |           | 0.010 | 0.0044 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.050 | 0.011  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2-Dibromoethane (EDB)     | ND     |           | 0.025 | 0.0073 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Dibromomethane              | ND     |           | 0.025 | 0.0042 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.010 | 0.0071 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.010 | 0.0070 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Dichlorodifluoromethane     | ND     |           | 0.025 | 0.013  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.010 | 0.0027 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.010 | 0.0032 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.010 | 0.0037 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.010 | 0.0020 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.010 | 0.0050 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.010 | 0.0049 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.010 | 0.0025 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.010 | 0.0034 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Ethylbenzene                | ND     |           | 0.010 | 0.0028 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.025 | 0.018  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 2-Hexanone                  | ND     |           | 0.10  | 0.061  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Isopropylbenzene            | ND     |           | 0.010 | 0.0030 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.010 | 0.0048 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Methylene Chloride          | 8.2    | E         | 0.10  | 0.086  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 0.10  | 0.036  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Naphthalene                 | ND     |           | 0.10  | 0.021  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| N-Propylbenzene             | ND     |           | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Styrene                     | ND     |           | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.025 | 0.010  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Tetrachloroethene           | ND     |           | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Toluene                     | 0.088  |           | 0.025 | 0.012  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2,3-Trichlorobenzene      | ND     |           | 0.025 | 0.025  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2,4-Trichlorobenzene      | ND     |           | 0.025 | 0.021  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.025 | 0.0097 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.025 | 0.0076 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Trichloroethene             | ND     |           | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Trichlorofluoromethane      | 0.0057 | J         | 0.050 | 0.0053 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2,3-Trichloropropane      | ND     |           | 0.025 | 0.010  | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,2,4-Trimethylbenzene      | ND     |           | 0.010 | 0.0038 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| 1,3,5-Trimethylbenzene      | ND     |           | 0.010 | 0.0026 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Vinyl chloride              | ND     |           | 0.025 | 0.0064 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| o-Xylene                    | ND     |           | 0.010 | 0.0035 | ug/Sample |   |          | 04/21/25 16:40 | 1       |

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# Client Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

Client Sample ID: ST MARYS RAW MILL ON VOST TEST 2

Lab Sample ID: 140-41580-2

TENAX/TENAX CHARCOAL

Date Collected: 04/08/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                      | Result    | Qualifier | RL       | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|--------|-----------|---|----------|----------------|---------|
| m,p-Xylene                   | ND        |           | 0.020    | 0.0070 | ug/Sample |   |          | 04/21/25 16:40 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |        |           |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 54        |           | 50 - 127 |        |           |   |          | 04/21/25 16:40 | 1       |
| 4-Bromofluorobenzene (Surr)  | 59        |           | 50 - 122 |        |           |   |          | 04/21/25 16:40 | 1       |
| Dibromofluoromethane (Surr)  | 70        |           | 50 - 134 |        |           |   |          | 04/21/25 16:40 | 1       |
| Toluene-d8 (Surr)            | 72        |           | 57 - 134 |        |           |   |          | 04/21/25 16:40 | 1       |

Client Sample ID: ST MARYS RAW MILL ON VOST TEST 3

Lab Sample ID: 140-41580-3

TENAX/TENAX CHARCOAL

Date Collected: 04/09/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                     | Result | Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|--------|-----------|---|----------|----------------|---------|
| Acetone                     | 45     | E         | 0.25  | 0.15   | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Benzene                     | 12     | E         | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Bromobenzene                | 0.019  |           | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Bromochloromethane          | ND     |           | 0.025 | 0.0081 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Bromodichloromethane        | ND     |           | 0.010 | 0.0017 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Bromoform                   | ND     |           | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Bromomethane                | 0.37   |           | 0.050 | 0.028  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 2-Butanone (MEK)            | 16     | E         | 0.10  | 0.066  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| n-Butylbenzene              | 0.40   | *3        | 0.025 | 0.0058 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| sec-Butylbenzene            | 0.12   | *3        | 0.025 | 0.0054 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| tert-Butylbenzene           | ND     | *3        | 0.010 | 0.0051 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Carbon disulfide            | 6.6    | E         | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Carbon tetrachloride        | ND     |           | 0.010 | 0.0075 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Chlorobenzene               | 1.1    |           | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Chlorodibromomethane        | ND     |           | 0.025 | 0.0037 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Chloroethane                | 0.37   |           | 0.050 | 0.022  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Chloroform                  | ND     |           | 0.010 | 0.0081 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Chloromethane               | 2.5    | E         | 0.050 | 0.046  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 2-Chlorotoluene             | ND     | *3        | 0.010 | 0.0039 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 4-Chlorotoluene             | ND     | *3        | 0.010 | 0.0044 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     | *3        | 0.050 | 0.011  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,2-Dibromoethane (EDB)     | ND     |           | 0.025 | 0.0073 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Dibromomethane              | ND     |           | 0.025 | 0.0042 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,2-Dichlorobenzene         | 0.012  | *3        | 0.010 | 0.0071 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,3-Dichlorobenzene         | 0.033  | *3        | 0.010 | 0.0070 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,4-Dichlorobenzene         | 0.019  | *3        | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Dichlorodifluoromethane     | ND     |           | 0.025 | 0.013  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.010 | 0.0027 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.010 | 0.0032 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.010 | 0.0037 | ug/Sample |   |          | 04/21/25 17:07 | 1       |

Eurofins Knoxville

# Client Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

Client Sample ID: ST MARYS RAW MILL ON VOST TEST 3

Lab Sample ID: 140-41580-3

TENAX/TENAX CHARCOAL

Date Collected: 04/09/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                     | Result | Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|--------|-----------|---|----------|----------------|---------|
| 1,2-Dichloropropane         | ND     |           | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.010 | 0.0020 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.010 | 0.0050 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.010 | 0.0049 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.010 | 0.0025 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.010 | 0.0034 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Ethylbenzene                | 3.7    | E         | 0.010 | 0.0028 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Hexachlorobutadiene         | ND     | *3        | 0.025 | 0.018  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 2-Hexanone                  | 7.8    |           | 0.10  | 0.061  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Isopropylbenzene            | 0.19   |           | 0.010 | 0.0030 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 4-Isopropyltoluene          | 0.14   | *3        | 0.010 | 0.0048 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Methylene Chloride          | 3.1    | E         | 0.10  | 0.086  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 0.10  | 0.036  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Naphthalene                 | 0.19   | *3        | 0.10  | 0.021  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| N-Propylbenzene             | 5.5    | E *3      | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Styrene                     | 4.9    | E         | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,1,1,2-Tetrachloroethane   | ND     |           | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,1,2,2-Tetrachloroethane   | ND     |           | 0.025 | 0.010  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Tetrachloroethene           | ND     |           | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Toluene                     | 8.3    | E         | 0.025 | 0.012  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,2,3-Trichlorobenzene      | ND     | *3        | 0.025 | 0.025  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,2,4-Trichlorobenzene      | ND     | *3        | 0.025 | 0.021  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,1,1-Trichloroethane       | ND     |           | 0.025 | 0.0097 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,1,2-Trichloroethane       | ND     |           | 0.025 | 0.0076 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Trichloroethene             | ND     |           | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Trichlorofluoromethane      | ND     |           | 0.050 | 0.0053 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,2,3-Trichloropropane      | ND     | *3        | 0.025 | 0.010  | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,2,4-Trimethylbenzene      | 2.2    | E *3      | 0.010 | 0.0038 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| 1,3,5-Trimethylbenzene      | 0.82   | *3        | 0.010 | 0.0026 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| Vinyl chloride              | 0.32   |           | 0.025 | 0.0064 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| o-Xylene                    | 2.7    | E         | 0.010 | 0.0035 | ug/Sample |   |          | 04/21/25 17:07 | 1       |
| m,p-Xylene                  | 5.3    | E         | 0.020 | 0.0070 | ug/Sample |   |          | 04/21/25 17:07 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 245       | S1+       | 50 - 127 |          | 04/21/25 17:07 | 1       |
| 4-Bromofluorobenzene (Surr)  | 656       | *3 S1+    | 50 - 122 |          | 04/21/25 17:07 | 1       |
| Dibromofluoromethane (Surr)  | 80        |           | 50 - 134 |          | 04/21/25 17:07 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 57 - 134 |          | 04/21/25 17:07 | 1       |

Client Sample ID: MEDIA CHECK A-2675 TENAX,A-2676

Lab Sample ID: 140-41580-4

TENAX/CHARCOAL

Date Collected: 04/08/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL   | MDL  | Unit      | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|------|------|-----------|---|----------|----------------|---------|
| Acetone | ND     |           | 0.25 | 0.15 | ug/Sample |   |          | 04/21/25 15:51 | 1       |

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# Client Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

Client Sample ID: MEDIA CHECK A-2675 TENAX,A-2676

Lab Sample ID: 140-41580-4

TENAX/CHARCOAL

Date Collected: 04/08/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                     | Result | Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-------|--------|-----------|---|----------|----------------|---------|
| Benzene                     | ND     |           | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Bromobenzene                | ND     |           | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Bromochloromethane          | ND     |           | 0.025 | 0.0081 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Bromodichloromethane        | ND     |           | 0.010 | 0.0017 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Bromoform                   | ND     |           | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Bromomethane                | ND     |           | 0.050 | 0.028  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 2-Butanone (MEK)            | ND     |           | 0.10  | 0.066  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| n-Butylbenzene              | ND     |           | 0.025 | 0.0058 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| sec-Butylbenzene            | ND     |           | 0.025 | 0.0054 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| tert-Butylbenzene           | ND     |           | 0.010 | 0.0051 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Carbon disulfide            | ND     |           | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Carbon tetrachloride        | ND     |           | 0.010 | 0.0075 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Chlorobenzene               | ND     |           | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Chlorodibromomethane        | ND     |           | 0.025 | 0.0037 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Chloroethane                | ND     |           | 0.050 | 0.022  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Chloroform                  | ND     |           | 0.010 | 0.0081 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Chloromethane               | ND     |           | 0.050 | 0.046  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 2-Chlorotoluene             | ND     |           | 0.010 | 0.0039 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 4-Chlorotoluene             | ND     |           | 0.010 | 0.0044 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND     |           | 0.050 | 0.011  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2-Dibromoethane (EDB)     | ND     |           | 0.025 | 0.0073 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Dibromomethane              | ND     |           | 0.025 | 0.0042 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2-Dichlorobenzene         | ND     |           | 0.010 | 0.0071 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,3-Dichlorobenzene         | ND     |           | 0.010 | 0.0070 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,4-Dichlorobenzene         | ND     |           | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Dichlorodifluoromethane     | ND     |           | 0.025 | 0.013  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,1-Dichloroethane          | ND     |           | 0.010 | 0.0027 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2-Dichloroethane          | ND     |           | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,1-Dichloroethene          | ND     |           | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| cis-1,2-Dichloroethene      | ND     |           | 0.010 | 0.0032 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| trans-1,2-Dichloroethene    | ND     |           | 0.010 | 0.0037 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2-Dichloropropane         | ND     |           | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,3-Dichloropropane         | ND     |           | 0.010 | 0.0020 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 2,2-Dichloropropane         | ND     |           | 0.010 | 0.0050 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,1-Dichloropropene         | ND     |           | 0.010 | 0.0049 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| cis-1,3-Dichloropropene     | ND     |           | 0.010 | 0.0025 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| trans-1,3-Dichloropropene   | ND     |           | 0.010 | 0.0034 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Ethylbenzene                | ND     |           | 0.010 | 0.0028 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Hexachlorobutadiene         | ND     |           | 0.025 | 0.018  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 2-Hexanone                  | ND     |           | 0.10  | 0.061  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Isopropylbenzene            | ND     |           | 0.010 | 0.0030 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 4-Isopropyltoluene          | ND     |           | 0.010 | 0.0048 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Methylene Chloride          | 0.20   |           | 0.10  | 0.086  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND     |           | 0.10  | 0.036  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Naphthalene                 | ND     |           | 0.10  | 0.021  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| N-Propylbenzene             | ND     |           | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Styrene                     | ND     |           | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 15:51 | 1       |

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# Client Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

Client Sample ID: MEDIA CHECK A-2675 TENAX,A-2676

Lab Sample ID: 140-41580-4

TENAX/CHARCOAL

Date Collected: 04/08/25 00:00

Matrix: Air

Date Received: 04/16/25 09:50

Sample Container: Tube

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                      | Result       | Qualifier | RL       | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|-----------|----------|--------|-----------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane    | ND           |           | 0.010    | 0.0018 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,1,2,2-Tetrachloroethane    | ND           |           | 0.025    | 0.010  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Tetrachloroethene            | ND           |           | 0.010    | 0.0060 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| <b>Toluene</b>               | <b>0.012</b> | <b>J</b>  | 0.025    | 0.012  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2,3-Trichlorobenzene       | ND           |           | 0.025    | 0.025  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2,4-Trichlorobenzene       | ND           |           | 0.025    | 0.021  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,1,1-Trichloroethane        | ND           |           | 0.025    | 0.0097 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,1,2-Trichloroethane        | ND           |           | 0.025    | 0.0076 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Trichloroethene              | ND           |           | 0.010    | 0.0066 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Trichlorofluoromethane       | ND           |           | 0.050    | 0.0053 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2,3-Trichloropropane       | ND           |           | 0.025    | 0.010  | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,2,4-Trimethylbenzene       | ND           |           | 0.010    | 0.0038 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| 1,3,5-Trimethylbenzene       | ND           |           | 0.010    | 0.0026 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Vinyl chloride               | ND           |           | 0.025    | 0.0064 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| o-Xylene                     | ND           |           | 0.010    | 0.0035 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| m,p-Xylene                   | ND           |           | 0.020    | 0.0070 | ug/Sample |   |          | 04/21/25 15:51 | 1       |
| Surrogate                    | %Recovery    | Qualifier | Limits   |        |           |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 74           |           | 50 - 127 |        |           |   |          | 04/21/25 15:51 | 1       |
| 4-Bromofluorobenzene (Surr)  | 77           |           | 50 - 122 |        |           |   |          | 04/21/25 15:51 | 1       |
| Dibromofluoromethane (Surr)  | 95           |           | 50 - 134 |        |           |   |          | 04/21/25 15:51 | 1       |
| Toluene-d8 (Surr)            | 93           |           | 57 - 134 |        |           |   |          | 04/21/25 15:51 | 1       |

# Default Detection Limits

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                     | RL              | MDL              |
|-----------------------------|-----------------|------------------|
| 1,1,1,2-Tetrachloroethane   | 0.010 ug/Sample | 0.0018 ug/Sample |
| 1,1,1-Trichloroethane       | 0.025 ug/Sample | 0.0097 ug/Sample |
| 1,1,2,2-Tetrachloroethane   | 0.025 ug/Sample | 0.010 ug/Sample  |
| 1,1,2-Trichloroethane       | 0.025 ug/Sample | 0.0076 ug/Sample |
| 1,1-Dichloroethane          | 0.010 ug/Sample | 0.0027 ug/Sample |
| 1,1-Dichloroethene          | 0.010 ug/Sample | 0.0043 ug/Sample |
| 1,1-Dichloropropene         | 0.010 ug/Sample | 0.0049 ug/Sample |
| 1,2,3-Trichlorobenzene      | 0.025 ug/Sample | 0.025 ug/Sample  |
| 1,2,3-Trichloropropane      | 0.025 ug/Sample | 0.010 ug/Sample  |
| 1,2,4-Trichlorobenzene      | 0.025 ug/Sample | 0.021 ug/Sample  |
| 1,2,4-Trimethylbenzene      | 0.010 ug/Sample | 0.0038 ug/Sample |
| 1,2-Dibromo-3-Chloropropane | 0.050 ug/Sample | 0.011 ug/Sample  |
| 1,2-Dibromoethane (EDB)     | 0.025 ug/Sample | 0.0073 ug/Sample |
| 1,2-Dichlorobenzene         | 0.010 ug/Sample | 0.0071 ug/Sample |
| 1,2-Dichloroethane          | 0.010 ug/Sample | 0.0060 ug/Sample |
| 1,2-Dichloropropane         | 0.010 ug/Sample | 0.0018 ug/Sample |
| 1,3,5-Trimethylbenzene      | 0.010 ug/Sample | 0.0026 ug/Sample |
| 1,3-Dichlorobenzene         | 0.010 ug/Sample | 0.0070 ug/Sample |
| 1,3-Dichloropropane         | 0.010 ug/Sample | 0.0020 ug/Sample |
| 1,4-Dichlorobenzene         | 0.010 ug/Sample | 0.0043 ug/Sample |
| 2,2-Dichloropropane         | 0.010 ug/Sample | 0.0050 ug/Sample |
| 2-Butanone (MEK)            | 0.10 ug/Sample  | 0.066 ug/Sample  |
| 2-Chlorotoluene             | 0.010 ug/Sample | 0.0039 ug/Sample |
| 2-Hexanone                  | 0.10 ug/Sample  | 0.061 ug/Sample  |
| 4-Chlorotoluene             | 0.010 ug/Sample | 0.0044 ug/Sample |
| 4-Isopropyltoluene          | 0.010 ug/Sample | 0.0048 ug/Sample |
| 4-Methyl-2-pentanone (MIBK) | 0.10 ug/Sample  | 0.036 ug/Sample  |
| Acetone                     | 0.25 ug/Sample  | 0.15 ug/Sample   |
| Benzene                     | 0.010 ug/Sample | 0.0036 ug/Sample |
| Bromobenzene                | 0.010 ug/Sample | 0.0045 ug/Sample |
| Bromochloromethane          | 0.025 ug/Sample | 0.0081 ug/Sample |
| Bromodichloromethane        | 0.010 ug/Sample | 0.0017 ug/Sample |
| Bromoform                   | 0.025 ug/Sample | 0.0055 ug/Sample |
| Bromomethane                | 0.050 ug/Sample | 0.028 ug/Sample  |
| Carbon disulfide            | 0.025 ug/Sample | 0.0055 ug/Sample |
| Carbon tetrachloride        | 0.010 ug/Sample | 0.0075 ug/Sample |
| Chlorobenzene               | 0.010 ug/Sample | 0.0036 ug/Sample |
| Chlorodibromomethane        | 0.025 ug/Sample | 0.0037 ug/Sample |
| Chloroethane                | 0.050 ug/Sample | 0.022 ug/Sample  |
| Chloroform                  | 0.010 ug/Sample | 0.0081 ug/Sample |
| Chloromethane               | 0.050 ug/Sample | 0.046 ug/Sample  |
| cis-1,2-Dichloroethene      | 0.010 ug/Sample | 0.0032 ug/Sample |
| cis-1,3-Dichloropropene     | 0.010 ug/Sample | 0.0025 ug/Sample |
| Dibromomethane              | 0.025 ug/Sample | 0.0042 ug/Sample |
| Dichlorodifluoromethane     | 0.025 ug/Sample | 0.013 ug/Sample  |
| Ethylbenzene                | 0.010 ug/Sample | 0.0028 ug/Sample |
| Hexachlorobutadiene         | 0.025 ug/Sample | 0.018 ug/Sample  |
| Isopropylbenzene            | 0.010 ug/Sample | 0.0030 ug/Sample |
| m,p-Xylene                  | 0.020 ug/Sample | 0.0070 ug/Sample |
| Methylene Chloride          | 0.10 ug/Sample  | 0.086 ug/Sample  |
| Naphthalene                 | 0.10 ug/Sample  | 0.021 ug/Sample  |
| n-Butylbenzene              | 0.025 ug/Sample | 0.0058 ug/Sample |
| N-Propylbenzene             | 0.010 ug/Sample | 0.0045 ug/Sample |

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## Default Detection Limits

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte                   | RL              | MDL              |
|---------------------------|-----------------|------------------|
| o-Xylene                  | 0.010 ug/Sample | 0.0035 ug/Sample |
| sec-Butylbenzene          | 0.025 ug/Sample | 0.0054 ug/Sample |
| Styrene                   | 0.010 ug/Sample | 0.0066 ug/Sample |
| tert-Butylbenzene         | 0.010 ug/Sample | 0.0051 ug/Sample |
| Tetrachloroethene         | 0.010 ug/Sample | 0.0060 ug/Sample |
| Toluene                   | 0.025 ug/Sample | 0.012 ug/Sample  |
| trans-1,2-Dichloroethene  | 0.010 ug/Sample | 0.0037 ug/Sample |
| trans-1,3-Dichloropropene | 0.010 ug/Sample | 0.0034 ug/Sample |
| Trichloroethene           | 0.010 ug/Sample | 0.0066 ug/Sample |
| Trichlorofluoromethane    | 0.050 ug/Sample | 0.0053 ug/Sample |
| Vinyl chloride            | 0.025 ug/Sample | 0.0064 ug/Sample |

# Surrogate Summary

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

**Matrix: Air**

**Prep Type: Total/NA**

| Lab Sample ID                      | Client Sample ID                                            | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|------------------------------------|-------------------------------------------------------------|------------------------------------------------|-----------------|------------------|-----------------|
|                                    |                                                             | DCA<br>(50-127)                                | BFB<br>(50-122) | DBFM<br>(50-134) | TOL<br>(57-134) |
| 140-41580-1                        | ST MARYS RAW MILL ON VOS                                    | 73                                             | 70              | 90               | 89              |
| 140-41580-2                        | ST MARYS RAW MILL ON<br>VOST TEST 2 TENAX/TENAX<br>CHARCOAL | 54                                             | 59              | 70               | 72              |
| 140-41580-3                        | ST MARYS RAW MILL ON<br>VOST TEST 3 TENAX/TENAX<br>CHARCOAL | 245 S1+                                        | 656 *3<br>S1+   | 80               | 101             |
| 140-41580-4                        | MEDIA CHECK A-2675<br>TENAX,A-2676<br>TENAX/CHARCOAL        | 74                                             | 77              | 95               | 93              |
| LCS 140-98601/3                    | Lab Control Sample                                          | 76                                             | 75              | 93               | 91              |
| LCSD 140-98601/4                   | Lab Control Sample Dup                                      | 76                                             | 67              | 92               | 92              |
| MB 140-98601/6                     | Method Blank                                                | 71                                             | 74              | 90               | 89              |
| <b>Surrogate Legend</b>            |                                                             |                                                |                 |                  |                 |
| DCA = 1,2-Dichloroethane-d4 (Surr) |                                                             |                                                |                 |                  |                 |
| BFB = 4-Bromofluorobenzene (Surr)  |                                                             |                                                |                 |                  |                 |
| DBFM = Dibromofluoromethane (Surr) |                                                             |                                                |                 |                  |                 |
| TOL = Toluene-d8 (Surr)            |                                                             |                                                |                 |                  |                 |

# QC Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 140-98601/6

Matrix: Air

Analysis Batch: 98601

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-------|--------|-----------|---|----------|----------------|---------|
| Acetone                     | ND        |              | 0.25  | 0.15   | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Benzene                     | ND        |              | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Bromobenzene                | ND        |              | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Bromochloromethane          | ND        |              | 0.025 | 0.0081 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Bromodichloromethane        | ND        |              | 0.010 | 0.0017 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Bromoform                   | ND        |              | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Bromomethane                | ND        |              | 0.050 | 0.028  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 2-Butanone (MEK)            | ND        |              | 0.10  | 0.066  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| n-Butylbenzene              | ND        |              | 0.025 | 0.0058 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| sec-Butylbenzene            | ND        |              | 0.025 | 0.0054 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| tert-Butylbenzene           | ND        |              | 0.010 | 0.0051 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Carbon disulfide            | ND        |              | 0.025 | 0.0055 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Carbon tetrachloride        | ND        |              | 0.010 | 0.0075 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Chlorobenzene               | ND        |              | 0.010 | 0.0036 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Chlorodibromomethane        | ND        |              | 0.025 | 0.0037 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Chloroethane                | ND        |              | 0.050 | 0.022  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Chloroform                  | ND        |              | 0.010 | 0.0081 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Chloromethane               | ND        |              | 0.050 | 0.046  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 2-Chlorotoluene             | ND        |              | 0.010 | 0.0039 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 4-Chlorotoluene             | ND        |              | 0.010 | 0.0044 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2-Dibromo-3-Chloropropane | ND        |              | 0.050 | 0.011  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2-Dibromoethane (EDB)     | ND        |              | 0.025 | 0.0073 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Dibromomethane              | ND        |              | 0.025 | 0.0042 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2-Dichlorobenzene         | ND        |              | 0.010 | 0.0071 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,3-Dichlorobenzene         | ND        |              | 0.010 | 0.0070 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,4-Dichlorobenzene         | ND        |              | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Dichlorodifluoromethane     | ND        |              | 0.025 | 0.013  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,1-Dichloroethane          | ND        |              | 0.010 | 0.0027 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2-Dichloroethane          | ND        |              | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,1-Dichloroethene          | ND        |              | 0.010 | 0.0043 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| cis-1,2-Dichloroethene      | ND        |              | 0.010 | 0.0032 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| trans-1,2-Dichloroethene    | ND        |              | 0.010 | 0.0037 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2-Dichloropropane         | ND        |              | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,3-Dichloropropane         | ND        |              | 0.010 | 0.0020 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 2,2-Dichloropropane         | ND        |              | 0.010 | 0.0050 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,1-Dichloropropene         | ND        |              | 0.010 | 0.0049 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| cis-1,3-Dichloropropene     | ND        |              | 0.010 | 0.0025 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| trans-1,3-Dichloropropene   | ND        |              | 0.010 | 0.0034 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Ethylbenzene                | ND        |              | 0.010 | 0.0028 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Hexachlorobutadiene         | ND        |              | 0.025 | 0.018  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 2-Hexanone                  | ND        |              | 0.10  | 0.061  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Isopropylbenzene            | ND        |              | 0.010 | 0.0030 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 4-Isopropyltoluene          | ND        |              | 0.010 | 0.0048 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Methylene Chloride          | ND        |              | 0.10  | 0.086  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 4-Methyl-2-pentanone (MIBK) | ND        |              | 0.10  | 0.036  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Naphthalene                 | ND        |              | 0.10  | 0.021  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| N-Propylbenzene             | ND        |              | 0.010 | 0.0045 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Styrene                     | ND        |              | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 15:11 | 1       |

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# QC Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 140-98601/6

Matrix: Air

Analysis Batch: 98601

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                   | MB Result | MB Qualifier | RL    | MDL    | Unit      | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|-------|--------|-----------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND        |              | 0.010 | 0.0018 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,1,2,2-Tetrachloroethane | ND        |              | 0.025 | 0.010  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Tetrachloroethene         | ND        |              | 0.010 | 0.0060 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Toluene                   | ND        |              | 0.025 | 0.012  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2,3-Trichlorobenzene    | ND        |              | 0.025 | 0.025  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2,4-Trichlorobenzene    | ND        |              | 0.025 | 0.021  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,1,1-Trichloroethane     | ND        |              | 0.025 | 0.0097 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,1,2-Trichloroethane     | ND        |              | 0.025 | 0.0076 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Trichloroethene           | ND        |              | 0.010 | 0.0066 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Trichlorofluoromethane    | ND        |              | 0.050 | 0.0053 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2,3-Trichloropropane    | ND        |              | 0.025 | 0.010  | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,2,4-Trimethylbenzene    | ND        |              | 0.010 | 0.0038 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| 1,3,5-Trimethylbenzene    | ND        |              | 0.010 | 0.0026 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| Vinyl chloride            | ND        |              | 0.025 | 0.0064 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| o-Xylene                  | ND        |              | 0.010 | 0.0035 | ug/Sample |   |          | 04/21/25 15:11 | 1       |
| m,p-Xylene                | ND        |              | 0.020 | 0.0070 | ug/Sample |   |          | 04/21/25 15:11 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 71           |              | 50 - 127 |          | 04/21/25 15:11 | 1       |
| 4-Bromofluorobenzene (Surr)  | 74           |              | 50 - 122 |          | 04/21/25 15:11 | 1       |
| Dibromofluoromethane (Surr)  | 90           |              | 50 - 134 |          | 04/21/25 15:11 | 1       |
| Toluene-d8 (Surr)            | 89           |              | 57 - 134 |          | 04/21/25 15:11 | 1       |

Lab Sample ID: LCS 140-98601/3

Matrix: Air

Analysis Batch: 98601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte              | Spike Added | LCS Result | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|----------------------|-------------|------------|---------------|-----------|---|------|-------------|
| Acetone              | 1.20        | 0.707      |               | ug/Sample |   | 59   | 20 - 191    |
| Benzene              | 0.300       | 0.336      |               | ug/Sample |   | 112  | 68 - 128    |
| Bromobenzene         | 0.300       | 0.289      |               | ug/Sample |   | 96   | 53 - 120    |
| Bromochloromethane   | 0.300       | 0.325      |               | ug/Sample |   | 108  | 53 - 120    |
| Bromodichloromethane | 0.300       | 0.302      |               | ug/Sample |   | 101  | 52 - 122    |
| Bromoform            | 0.300       | 0.211      |               | ug/Sample |   | 70   | 40 - 120    |
| Bromomethane         | 0.600       | 0.776      |               | ug/Sample |   | 129  | 40 - 187    |
| 2-Butanone (MEK)     | 1.20        | 0.699      |               | ug/Sample |   | 58   | 20 - 150    |
| n-Butylbenzene       | 0.300       | 0.308      |               | ug/Sample |   | 103  | 57 - 140    |
| sec-Butylbenzene     | 0.300       | 0.322      |               | ug/Sample |   | 107  | 70 - 128    |
| tert-Butylbenzene    | 0.300       | 0.329      |               | ug/Sample |   | 110  | 67 - 122    |
| Carbon disulfide     | 0.300       | 0.413      |               | ug/Sample |   | 138  | 40 - 157    |
| Carbon tetrachloride | 0.300       | 0.336      |               | ug/Sample |   | 112  | 67 - 135    |
| Chlorobenzene        | 0.300       | 0.328      |               | ug/Sample |   | 109  | 65 - 120    |
| Chlorodibromomethane | 0.300       | 0.273      |               | ug/Sample |   | 91   | 50 - 120    |
| Chloroethane         | 0.600       | 0.648      |               | ug/Sample |   | 108  | 43 - 163    |
| Chloroform           | 0.300       | 0.322      |               | ug/Sample |   | 107  | 63 - 123    |
| Chloromethane        | 0.600       | 0.616      |               | ug/Sample |   | 103  | 44 - 176    |
| 2-Chlorotoluene      | 0.300       | 0.306      |               | ug/Sample |   | 102  | 59 - 120    |
| 4-Chlorotoluene      | 0.300       | 0.313      |               | ug/Sample |   | 104  | 57 - 120    |

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# QC Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 140-98601/3

Matrix: Air

Analysis Batch: 98601

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit      | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|-----------|---|------|-------------|
| 1,2-Dibromo-3-Chloropropane | 0.300       | 0.104      |               | ug/Sample |   | 35   | 10 - 120    |
| 1,2-Dibromoethane (EDB)     | 0.300       | 0.233      |               | ug/Sample |   | 78   | 20 - 120    |
| Dibromomethane              | 0.300       | 0.273      |               | ug/Sample |   | 91   | 50 - 120    |
| 1,2-Dichlorobenzene         | 0.300       | 0.238      |               | ug/Sample |   | 79   | 20 - 124    |
| 1,3-Dichlorobenzene         | 0.300       | 0.295      |               | ug/Sample |   | 98   | 30 - 132    |
| 1,4-Dichlorobenzene         | 0.300       | 0.277      |               | ug/Sample |   | 92   | 30 - 129    |
| Dichlorodifluoromethane     | 0.600       | 0.669      |               | ug/Sample |   | 112  | 25 - 146    |
| 1,1-Dichloroethane          | 0.300       | 0.316      |               | ug/Sample |   | 105  | 66 - 128    |
| 1,2-Dichloroethane          | 0.300       | 0.271      |               | ug/Sample |   | 90   | 36 - 124    |
| 1,1-Dichloroethene          | 0.300       | 0.347      |               | ug/Sample |   | 116  | 77 - 131    |
| cis-1,2-Dichloroethene      | 0.300       | 0.350      |               | ug/Sample |   | 117  | 67 - 123    |
| trans-1,2-Dichloroethene    | 0.300       | 0.385      |               | ug/Sample |   | 128  | 78 - 128    |
| 1,2-Dichloropropane         | 0.300       | 0.301      |               | ug/Sample |   | 100  | 55 - 124    |
| 1,3-Dichloropropane         | 0.300       | 0.254      |               | ug/Sample |   | 85   | 50 - 120    |
| 2,2-Dichloropropane         | 0.300       | 0.345      |               | ug/Sample |   | 115  | 59 - 141    |
| 1,1-Dichloropropene         | 0.300       | 0.345      |               | ug/Sample |   | 115  | 70 - 136    |
| cis-1,3-Dichloropropene     | 0.300       | 0.317      |               | ug/Sample |   | 106  | 45 - 125    |
| trans-1,3-Dichloropropene   | 0.300       | 0.279      |               | ug/Sample |   | 93   | 40 - 120    |
| Ethylbenzene                | 0.300       | 0.337      |               | ug/Sample |   | 112  | 72 - 127    |
| Hexachlorobutadiene         | 0.300       | 0.404      |               | ug/Sample |   | 135  | 52 - 167    |
| 2-Hexanone                  | 1.20        | 0.625      |               | ug/Sample |   | 52   | 30 - 151    |
| Isopropylbenzene            | 0.300       | 0.334      |               | ug/Sample |   | 111  | 40 - 152    |
| 4-Isopropyltoluene          | 0.300       | 0.331      |               | ug/Sample |   | 110  | 66 - 126    |
| Methylene Chloride          | 0.300       | 0.399      |               | ug/Sample |   | 133  | 60 - 134    |
| 4-Methyl-2-pentanone (MIBK) | 1.20        | 0.719      |               | ug/Sample |   | 60   | 30 - 175    |
| Naphthalene                 | 0.300       | 0.100      |               | ug/Sample |   | 33   | 20 - 120    |
| N-Propylbenzene             | 0.300       | 0.324      |               | ug/Sample |   | 108  | 69 - 123    |
| Styrene                     | 0.300       | 0.312      |               | ug/Sample |   | 104  | 57 - 120    |
| 1,1,1,2-Tetrachloroethane   | 0.300       | 0.308      |               | ug/Sample |   | 103  | 53 - 120    |
| 1,1,2,2-Tetrachloroethane   | 0.300       | 0.187      |               | ug/Sample |   | 62   | 30 - 120    |
| Tetrachloroethene           | 0.300       | 0.356      |               | ug/Sample |   | 119  | 80 - 133    |
| Toluene                     | 0.300       | 0.331      |               | ug/Sample |   | 110  | 70 - 120    |
| 1,2,3-Trichlorobenzene      | 0.300       | 0.166      |               | ug/Sample |   | 55   | 20 - 123    |
| 1,2,4-Trichlorobenzene      | 0.300       | 0.215      |               | ug/Sample |   | 72   | 20 - 140    |
| 1,1,1-Trichloroethane       | 0.300       | 0.338      |               | ug/Sample |   | 113  | 65 - 131    |
| 1,1,2-Trichloroethane       | 0.300       | 0.264      |               | ug/Sample |   | 88   | 41 - 120    |
| Trichloroethene             | 0.300       | 0.372      |               | ug/Sample |   | 124  | 80 - 141    |
| Trichlorofluoromethane      | 0.600       | 0.678      |               | ug/Sample |   | 113  | 58 - 147    |
| 1,2,3-Trichloropropane      | 0.300       | 0.184      |               | ug/Sample |   | 61   | 30 - 120    |
| 1,2,4-Trimethylbenzene      | 0.300       | 0.297      |               | ug/Sample |   | 99   | 56 - 120    |
| 1,3,5-Trimethylbenzene      | 0.300       | 0.315      |               | ug/Sample |   | 105  | 62 - 121    |
| Vinyl chloride              | 0.600       | 0.714      |               | ug/Sample |   | 119  | 64 - 142    |
| o-Xylene                    | 0.300       | 0.328      |               | ug/Sample |   | 109  | 64 - 120    |
| m,p-Xylene                  | 0.300       | 0.334      |               | ug/Sample |   | 111  | 74 - 126    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 76            |               | 50 - 127 |
| 4-Bromofluorobenzene (Surr)  | 75            |               | 50 - 122 |

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# QC Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 140-98601/3

Matrix: Air

Analysis Batch: 98601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                             | LCS       | LCS       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| Dibromofluoromethane (Surr) | 93        |           | 50 - 134 |
| Toluene-d8 (Surr)           | 91        |           | 57 - 134 |

Lab Sample ID: LCSD 140-98601/4

Matrix: Air

Analysis Batch: 98601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|-----------|---|------|-------------|-----|-----------|
| Acetone                     | 1.20        | 0.699       |                | ug/Sample |   | 58   | 20 - 191    | 1   | 50        |
| Benzene                     | 0.300       | 0.330       |                | ug/Sample |   | 110  | 68 - 128    | 2   | 22        |
| Bromobenzene                | 0.300       | 0.250       |                | ug/Sample |   | 83   | 53 - 120    | 14  | 38        |
| Bromochloromethane          | 0.300       | 0.319       |                | ug/Sample |   | 106  | 53 - 120    | 2   | 36        |
| Bromodichloromethane        | 0.300       | 0.295       |                | ug/Sample |   | 98   | 52 - 122    | 2   | 35        |
| Bromoform                   | 0.300       | 0.186       |                | ug/Sample |   | 62   | 40 - 120    | 13  | 50        |
| Bromomethane                | 0.600       | 0.773       |                | ug/Sample |   | 129  | 40 - 187    | 0   | 35        |
| 2-Butanone (MEK)            | 1.20        | 0.710       |                | ug/Sample |   | 59   | 20 - 150    | 2   | 50        |
| n-Butylbenzene              | 0.300       | 0.238       |                | ug/Sample |   | 79   | 57 - 140    | 25  | 31        |
| sec-Butylbenzene            | 0.300       | 0.270       |                | ug/Sample |   | 90   | 70 - 128    | 18  | 26        |
| tert-Butylbenzene           | 0.300       | 0.293       |                | ug/Sample |   | 98   | 67 - 122    | 12  | 26        |
| Carbon disulfide            | 0.300       | 0.400       |                | ug/Sample |   | 133  | 40 - 157    | 3   | 23        |
| Carbon tetrachloride        | 0.300       | 0.328       |                | ug/Sample |   | 109  | 67 - 135    | 2   | 23        |
| Chlorobenzene               | 0.300       | 0.313       |                | ug/Sample |   | 104  | 65 - 120    | 5   | 26        |
| Chlorodibromomethane        | 0.300       | 0.257       |                | ug/Sample |   | 86   | 50 - 120    | 6   | 43        |
| Chloroethane                | 0.600       | 0.641       |                | ug/Sample |   | 107  | 43 - 163    | 1   | 32        |
| Chloroform                  | 0.300       | 0.311       |                | ug/Sample |   | 104  | 63 - 123    | 3   | 27        |
| Chloromethane               | 0.600       | 0.608       |                | ug/Sample |   | 101  | 44 - 176    | 1   | 50        |
| 2-Chlorotoluene             | 0.300       | 0.271       |                | ug/Sample |   | 90   | 59 - 120    | 12  | 29        |
| 4-Chlorotoluene             | 0.300       | 0.274       |                | ug/Sample |   | 91   | 57 - 120    | 13  | 30        |
| 1,2-Dibromo-3-Chloropropane | 0.300       | 0.0651      |                | ug/Sample |   | 22   | 10 - 120    | 46  | 50        |
| 1,2-Dibromoethane (EDB)     | 0.300       | 0.214       |                | ug/Sample |   | 71   | 20 - 120    | 8   | 43        |
| Dibromomethane              | 0.300       | 0.264       |                | ug/Sample |   | 88   | 50 - 120    | 3   | 42        |
| 1,2-Dichlorobenzene         | 0.300       | 0.185       |                | ug/Sample |   | 62   | 20 - 124    | 25  | 49        |
| 1,3-Dichlorobenzene         | 0.300       | 0.244       |                | ug/Sample |   | 81   | 30 - 132    | 19  | 39        |
| 1,4-Dichlorobenzene         | 0.300       | 0.222       |                | ug/Sample |   | 74   | 30 - 129    | 22  | 42        |
| Dichlorodifluoromethane     | 0.600       | 0.649       |                | ug/Sample |   | 108  | 25 - 146    | 3   | 42        |
| 1,1-Dichloroethane          | 0.300       | 0.312       |                | ug/Sample |   | 104  | 66 - 128    | 1   | 24        |
| 1,2-Dichloroethane          | 0.300       | 0.262       |                | ug/Sample |   | 87   | 36 - 124    | 4   | 37        |
| 1,1-Dichloroethene          | 0.300       | 0.339       |                | ug/Sample |   | 113  | 77 - 131    | 2   | 22        |
| cis-1,2-Dichloroethene      | 0.300       | 0.347       |                | ug/Sample |   | 116  | 67 - 123    | 1   | 27        |
| trans-1,2-Dichloroethene    | 0.300       | 0.371       |                | ug/Sample |   | 124  | 78 - 128    | 4   | 23        |
| 1,2-Dichloropropane         | 0.300       | 0.294       |                | ug/Sample |   | 98   | 55 - 124    | 2   | 31        |
| 1,3-Dichloropropane         | 0.300       | 0.239       |                | ug/Sample |   | 80   | 50 - 120    | 6   | 38        |
| 2,2-Dichloropropane         | 0.300       | 0.340       |                | ug/Sample |   | 113  | 59 - 141    | 1   | 25        |
| 1,1-Dichloropropene         | 0.300       | 0.339       |                | ug/Sample |   | 113  | 70 - 136    | 2   | 21        |
| cis-1,3-Dichloropropene     | 0.300       | 0.307       |                | ug/Sample |   | 102  | 45 - 125    | 3   | 36        |
| trans-1,3-Dichloropropene   | 0.300       | 0.265       |                | ug/Sample |   | 88   | 40 - 120    | 5   | 40        |
| Ethylbenzene                | 0.300       | 0.323       |                | ug/Sample |   | 108  | 72 - 127    | 4   | 23        |
| Hexachlorobutadiene         | 0.300       | 0.300       |                | ug/Sample |   | 100  | 52 - 167    | 30  | 50        |

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# QC Sample Results

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 140-98601/4

Matrix: Air

Analysis Batch: 98601

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit      | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|-----------|---|------|-------------|-----|-----------|
| 2-Hexanone                  | 1.20        | 0.559       |                | ug/Sample |   | 47   | 30 - 151    | 11  | 50        |
| Isopropylbenzene            | 0.300       | 0.311       |                | ug/Sample |   | 104  | 40 - 152    | 7   | 28        |
| 4-Isopropyltoluene          | 0.300       | 0.271       |                | ug/Sample |   | 90   | 66 - 126    | 20  | 28        |
| Methylene Chloride          | 0.300       | 0.392       |                | ug/Sample |   | 131  | 60 - 134    | 2   | 41        |
| 4-Methyl-2-pentanone (MIBK) | 1.20        | 0.685       |                | ug/Sample |   | 57   | 30 - 175    | 5   | 50        |
| Naphthalene                 | 0.300       | 0.0614      | J              | ug/Sample |   | 20   | 20 - 120    | 48  | 50        |
| N-Propylbenzene             | 0.300       | 0.289       |                | ug/Sample |   | 96   | 69 - 123    | 12  | 25        |
| Styrene                     | 0.300       | 0.283       |                | ug/Sample |   | 94   | 57 - 120    | 10  | 39        |
| 1,1,1,2-Tetrachloroethane   | 0.300       | 0.293       |                | ug/Sample |   | 98   | 53 - 120    | 5   | 35        |
| 1,1,2,2-Tetrachloroethane   | 0.300       | 0.159       |                | ug/Sample |   | 53   | 30 - 120    | 16  | 50        |
| Tetrachloroethene           | 0.300       | 0.351       |                | ug/Sample |   | 117  | 80 - 133    | 1   | 24        |
| Toluene                     | 0.300       | 0.325       |                | ug/Sample |   | 108  | 70 - 120    | 2   | 22        |
| 1,2,3-Trichlorobenzene      | 0.300       | 0.101       |                | ug/Sample |   | 34   | 20 - 123    | 48  | 50        |
| 1,2,4-Trichlorobenzene      | 0.300       | 0.136       |                | ug/Sample |   | 45   | 20 - 140    | 45  | 50        |
| 1,1,1-Trichloroethane       | 0.300       | 0.331       |                | ug/Sample |   | 110  | 65 - 131    | 2   | 23        |
| 1,1,2-Trichloroethane       | 0.300       | 0.251       |                | ug/Sample |   | 84   | 41 - 120    | 5   | 38        |
| Trichloroethene             | 0.300       | 0.363       |                | ug/Sample |   | 121  | 80 - 141    | 2   | 32        |
| Trichlorofluoromethane      | 0.600       | 0.653       |                | ug/Sample |   | 109  | 58 - 147    | 4   | 26        |
| 1,2,3-Trichloropropane      | 0.300       | 0.147       |                | ug/Sample |   | 49   | 30 - 120    | 22  | 50        |
| 1,2,4-Trimethylbenzene      | 0.300       | 0.251       |                | ug/Sample |   | 84   | 56 - 120    | 17  | 35        |
| 1,3,5-Trimethylbenzene      | 0.300       | 0.276       |                | ug/Sample |   | 92   | 62 - 121    | 13  | 30        |
| Vinyl chloride              | 0.600       | 0.693       |                | ug/Sample |   | 116  | 64 - 142    | 3   | 33        |
| o-Xylene                    | 0.300       | 0.308       |                | ug/Sample |   | 103  | 64 - 120    | 6   | 37        |
| m,p-Xylene                  | 0.300       | 0.316       |                | ug/Sample |   | 105  | 74 - 126    | 5   | 38        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 76             |                | 50 - 127    |
| 4-Bromofluorobenzene (Surr)  | 67             |                | 50 - 122    |
| Dibromofluoromethane (Surr)  | 92             |                | 50 - 134    |
| Toluene-d8 (Surr)            | 92             |                | 57 - 134    |

## QC Association Summary

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

### GC/MS VOA

#### Analysis Batch: 98601

| Lab Sample ID    | Client Sample ID                        | Prep Type | Matrix | Method | Prep Batch |
|------------------|-----------------------------------------|-----------|--------|--------|------------|
| 140-41580-1      | ST MARYS RAW MILL ON VOST TEST 1 TENA\  | Total/NA  | Air    | 8260B  |            |
| 140-41580-2      | ST MARYS RAW MILL ON VOST TEST 2 TENA\  | Total/NA  | Air    | 8260B  |            |
| 140-41580-3      | ST MARYS RAW MILL ON VOST TEST 3 TENA\  | Total/NA  | Air    | 8260B  |            |
| 140-41580-4      | MEDIA CHECK A-2675 TENAX,A-2676 TENAX/C | Total/NA  | Air    | 8260B  |            |
| MB 140-98601/6   | Method Blank                            | Total/NA  | Air    | 8260B  |            |
| LCS 140-98601/3  | Lab Control Sample                      | Total/NA  | Air    | 8260B  |            |
| LCSD 140-98601/4 | Lab Control Sample Dup                  | Total/NA  | Air    | 8260B  |            |

# Lab Chronicle

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

**Client Sample ID: ST MARYS RAW MILL ON VOST TEST 1**

**Lab Sample ID: 140-41580-1**

**TENAX/TENAX CHARCOAL**

**Date Collected: 04/08/25 00:00**

**Matrix: Air**

**Date Received: 04/16/25 09:50**

| Prep Type         | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 8260B        |     | 1          | 1 Sample       | 25 mL        | 98601        | 04/21/25 16:16       | BTB     | EET KNX |
| Instrument ID: MX |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: ST MARYS RAW MILL ON VOST TEST 2**

**Lab Sample ID: 140-41580-2**

**TENAX/TENAX CHARCOAL**

**Date Collected: 04/08/25 00:00**

**Matrix: Air**

**Date Received: 04/16/25 09:50**

| Prep Type         | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 8260B        |     | 1          | 1 Sample       | 25 mL        | 98601        | 04/21/25 16:40       | BTB     | EET KNX |
| Instrument ID: MX |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: ST MARYS RAW MILL ON VOST TEST 3**

**Lab Sample ID: 140-41580-3**

**TENAX/TENAX CHARCOAL**

**Date Collected: 04/09/25 00:00**

**Matrix: Air**

**Date Received: 04/16/25 09:50**

| Prep Type         | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 8260B        |     | 1          | 1 Sample       | 25 mL        | 98601        | 04/21/25 17:07       | BTB     | EET KNX |
| Instrument ID: MX |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MEDIA CHECK A-2675 TENAX,A-2676**

**Lab Sample ID: 140-41580-4**

**TENAX/CHARCOAL**

**Date Collected: 04/08/25 00:00**

**Matrix: Air**

**Date Received: 04/16/25 09:50**

| Prep Type         | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 8260B        |     | 1          | 1 Sample       | 25 mL        | 98601        | 04/21/25 15:51       | BTB     | EET KNX |
| Instrument ID: MX |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 140-98601/6**

**Date Collected: N/A**

**Matrix: Air**

**Date Received: N/A**

| Prep Type         | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 8260B        |     | 1          | 1 Sample       | 25 mL        | 98601        | 04/21/25 15:11       | BTB     | EET KNX |
| Instrument ID: MX |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 140-98601/3**

**Date Collected: N/A**

**Matrix: Air**

**Date Received: N/A**

| Prep Type         | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 8260B        |     | 1          | 1 Sample       | 25 mL        | 98601        | 04/21/25 13:16       | BTB     | EET KNX |
| Instrument ID: MX |            |              |     |            |                |              |              |                      |         |         |

Eurofins Knoxville

# Lab Chronicle

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-98601/4

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type         | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA          | Analysis   | 8260B        |     | 1          | 1 Sample       | 25 mL        | 98601        | 04/21/25 14:00       | BTB     | EET KNX |
| Instrument ID: MX |            |              |     |            |                |              |              |                      |         |         |

Laboratory References:  
EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Accreditation/Certification Summary

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

## Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority              | Program               | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
|                        | AFCEE                 | N/A                   |                 |
| ANAB                   | Dept. of Defense ELAP | L2311                 | 02-13-27        |
| ANAB                   | Dept. of Energy       | L2311.01              | 02-13-27        |
| ANAB                   | ISO/IEC 17025         | L2311                 | 02-13-27        |
| Arkansas DEQ           | State                 | 88-0688               | 06-17-25        |
| Colorado               | State                 | TN00009               | 02-28-26        |
| Connecticut            | State                 | PH-0223               | 10-01-26        |
| Florida                | NELAP                 | E87177                | 06-30-25        |
| Georgia (DW)           | State                 | 906                   | 07-27-25        |
| Hawaii                 | State                 | NA                    | 07-27-25        |
| Kansas                 | NELAP                 | E-10349               | 10-31-25        |
| Kentucky (DW)          | State                 | 90101                 | 12-31-25        |
| Louisiana (All)        | NELAP                 | 03079                 | 06-30-25        |
| Louisiana (DW)         | State                 | LA019                 | 12-31-25        |
| Maryland               | State                 | 277                   | 03-31-26        |
| Michigan               | State                 | 9933                  | 07-27-25        |
| Nevada                 | State                 | TN00009               | 07-31-25        |
| New Hampshire          | NELAP                 | 2999                  | 01-18-26        |
| New Jersey             | NELAP                 | TN001                 | 06-30-25        |
| New York               | NELAP                 | 10781                 | 04-01-26        |
| North Carolina (DW)    | State                 | 21705                 | 07-31-25        |
| North Carolina (WW/SW) | State                 | 64                    | 12-31-25        |
| Oklahoma               | State                 | 9415                  | 08-31-25        |
| Oregon                 | NELAP                 | TNI0189               | 01-01-26        |
| Pennsylvania           | NELAP                 | 68-00576              | 12-31-25        |
| Tennessee              | State                 | 02014                 | 07-28-25        |
| Texas                  | NELAP                 | T104704380            | 08-31-25        |
| US Fish & Wildlife     | US Federal Programs   | 058448                | 07-31-25        |
| USDA                   | US Federal Programs   | 525-22-279-18762      | 10-06-25        |
| Utah                   | NELAP                 | TN00009               | 07-31-25        |
| Virginia               | NELAP                 | 460176                | 09-14-25        |
| Washington             | State                 | C593                  | 01-19-26        |
| West Virginia (DW)     | State                 | 9955C                 | 01-31-26        |
| West Virginia DEP      | State                 | 345                   | 04-30-26        |
| Wisconsin              | State                 | 998044300             | 08-31-25        |

# Method Summary

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

| Method | Method Description                 | Protocol | Laboratory |
|--------|------------------------------------|----------|------------|
| 8260B  | Volatile Organic Compounds (GC/MS) | SW846    | EET KNX    |

## Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

## Sample Summary

Client: RWDI – Air Inc  
Project/Site: RWDI: AIR SMC St Marys

Job ID: 140-41580-1

| Lab Sample ID | Client Sample ID                                         | Matrix | Collected      | Received       |
|---------------|----------------------------------------------------------|--------|----------------|----------------|
| 140-41580-1   | ST MARYS RAW MILL ON VOST TEST 1<br>TENAX/TENAX CHARCOAL | Air    | 04/08/25 00:00 | 04/16/25 09:50 |
| 140-41580-2   | ST MARYS RAW MILL ON VOST TEST 2<br>TENAX/TENAX CHARCOAL | Air    | 04/08/25 00:00 | 04/16/25 09:50 |
| 140-41580-3   | ST MARYS RAW MILL ON VOST TEST 3<br>TENAX/TENAX CHARCOAL | Air    | 04/09/25 00:00 | 04/16/25 09:50 |
| 140-41580-4   | MEDIA CHECK A-2675 TENAX,A-2676<br>TENAX/CHARCOAL        | Air    | 04/08/25 00:00 | 04/16/25 09:50 |

 **eurofins** | Environment Testing  
TestAmerica

**TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica**

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

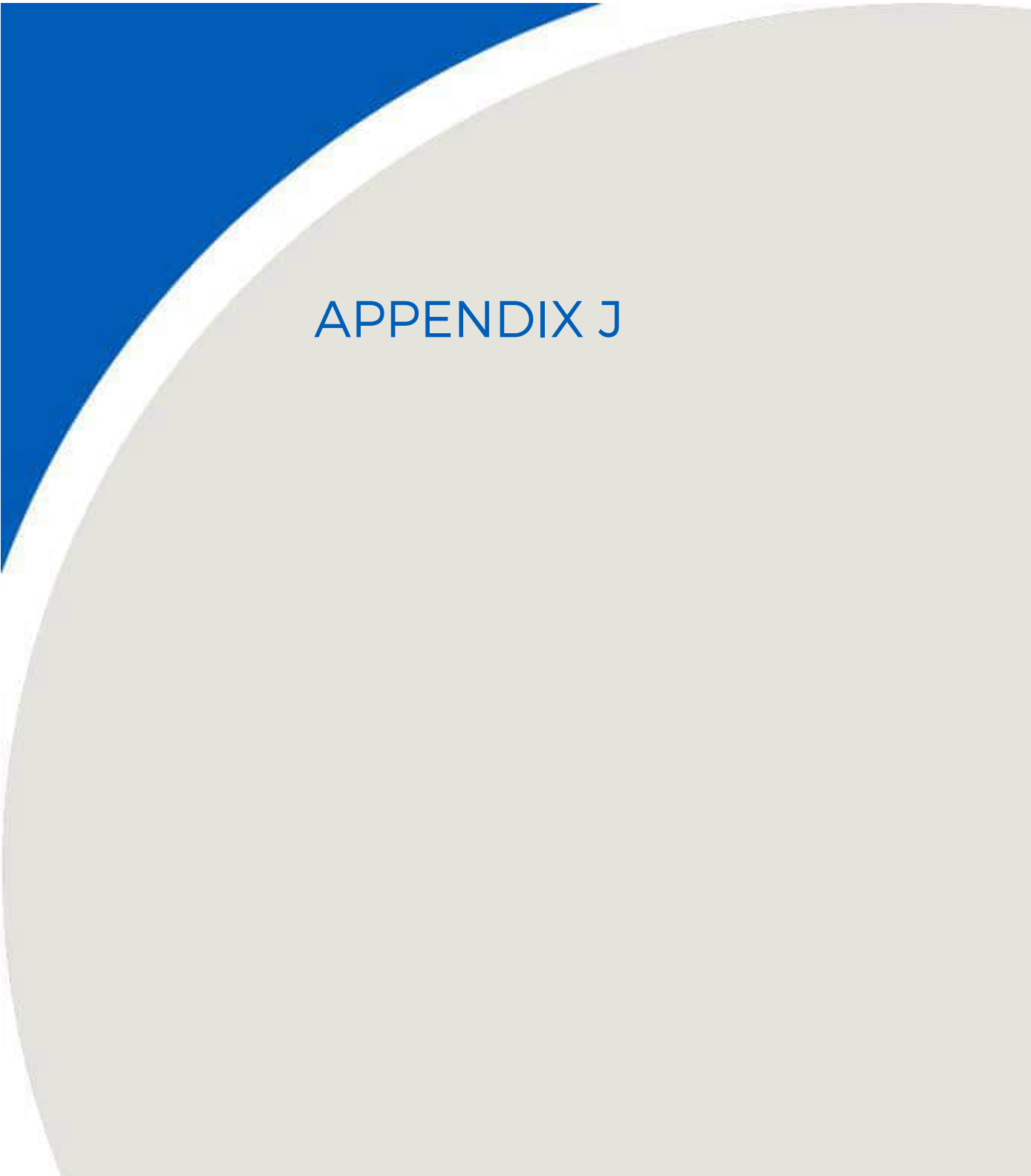
|                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                                                              |                                    |                            |                         |                                                                                                                                                                                                                              |                          |                          |                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------|------------------------------------|----------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------------------|
| Client Contact                                                                                                                                                                                                                                                                                                                                                                           |                   | Project Manager: Karri Legarrie                                              |                                    | Site Contact: Tobi Odumoye |                         | Date: 2025-04-15                                                                                                                                                                                                             |                          | COC No:                  |                              |
| RWDI Air Inc                                                                                                                                                                                                                                                                                                                                                                             |                   | Email: karri.legarrie@rwdi.com                                               |                                    | Lab Contact:               |                         | Carrier: FedEx                                                                                                                                                                                                               |                          | 1 of 1 COCs              |                              |
| 600 Southgate Drive                                                                                                                                                                                                                                                                                                                                                                      |                   | Analysis Turnaround Time                                                     |                                    |                            |                         |                                                                                                                                                                                                                              |                          | Sampler: Adam Tran       |                              |
| Guelph, ON, CANADA N1G 4P6                                                                                                                                                                                                                                                                                                                                                               |                   | <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS |                                    |                            |                         |                                                                                                                                                                                                                              |                          | For Lab Use Only:        |                              |
| 519-823-1311 Phone                                                                                                                                                                                                                                                                                                                                                                       |                   | TAT if different from Below _____                                            |                                    |                            |                         |                                                                                                                                                                                                                              |                          | Walk-in Client:          |                              |
| 519-823-1316 FAX                                                                                                                                                                                                                                                                                                                                                                         |                   | <input checked="" type="checkbox"/> 2 weeks                                  |                                    |                            |                         |                                                                                                                                                                                                                              |                          | Lab Sampling:            |                              |
| Project Name: SMC St Marys                                                                                                                                                                                                                                                                                                                                                               |                   | <input type="checkbox"/> 1 week                                              |                                    |                            |                         |                                                                                                                                                                                                                              |                          |                          |                              |
| Site: St Marys                                                                                                                                                                                                                                                                                                                                                                           |                   | <input type="checkbox"/> 2 days                                              |                                    |                            |                         |                                                                                                                                                                                                                              |                          | Job / SDG No.:           |                              |
| P O # 2509873                                                                                                                                                                                                                                                                                                                                                                            |                   | <input type="checkbox"/> 1 day                                               |                                    |                            |                         |                                                                                                                                                                                                                              |                          |                          |                              |
| Sample Identification                                                                                                                                                                                                                                                                                                                                                                    | Sample Date       | Sample Time                                                                  | Sample Type<br>(C=Comp,<br>G=Grab) | Matrix                     | # of Cont.              | Filtered Sample (Y/N)                                                                                                                                                                                                        | Perform MS / MSD (Y / N) | VOST - SW846 Method 0030 | Sample Specific Notes:       |
| St Marys Raw Mill On VOST Test 1                                                                                                                                                                                                                                                                                                                                                         | 4/8/2025          | --                                                                           | G                                  | VOST                       | 2                       | x                                                                                                                                                                                                                            |                          |                          | Tube Pair # A080537, A080127 |
| St Marys Raw Mill On VOST Test 2                                                                                                                                                                                                                                                                                                                                                         | 4/8/2025          | --                                                                           | G                                  | VOST                       | 2                       | x                                                                                                                                                                                                                            |                          |                          | Tube Pair # A087911, A066832 |
| St Marys Raw Mill On VOST Test 3                                                                                                                                                                                                                                                                                                                                                         | 4/9/2025          | --                                                                           | G                                  | VOST                       | 2                       | x                                                                                                                                                                                                                            |                          |                          | Tube Pair # A081209, A081162 |
| NO Custody seal<br>Received at R+S 4/17/25 s.s.c<br>CAR 4-16-25<br>Fedex IP# 880570130737                                                                                                                                                                                                                                                                                                |                   |                                                                              |                                    |                            |                         |                                                                                                                                                                                                                              |                          |                          |                              |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other                                                                                                                                                                                                                                                                                                                    |                   |                                                                              |                                    |                            |                         |                                                                                                                                                                                                                              |                          |                          |                              |
| Possible Hazard Identification:<br>Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.<br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |                   |                                                                              |                                    |                            |                         | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months |                          |                          |                              |
| Special Instructions/QC Requirements & Comments:<br>Ontario, Canada regulatory testing                                                                                                                                                                                                                                                                                                   |                   |                                                                              |                                    |                            |                         |                                                                                                                                                                                                                              |                          |                          |                              |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                           | Custody Seal No.: |                                                                              | Cooler Temp. (°C): Obs'd:          |                            | Corr'd:                 |                                                                                                                                                                                                                              | Therm ID No.:            |                          |                              |
| Relinquished by: [Signature]                                                                                                                                                                                                                                                                                                                                                             | Company: RWDI     | Date/Time: 2025/04/15                                                        | Received by: [Signature]           | Company: EST km            | Date/Time: 4-16-25 0950 |                                                                                                                                                                                                                              |                          |                          |                              |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                         | Company:          | Date/Time:                                                                   | Received by:                       | Company:                   | Date/Time:              |                                                                                                                                                                                                                              |                          |                          |                              |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                         | Company:          | Date/Time:                                                                   | Received in Laboratory by:         | Company:                   | Date/Time:              |                                                                                                                                                                                                                              |                          |                          |                              |

## EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

| Review Items                                                                                                                                                    | Yes | No | NA | If No, what was the problem?                                                                                                                          | Comments/Actions Taken                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1. Are the shipping containers intact?                                                                                                                          | /   |    |    | <input type="checkbox"/> Containers, Broken                                                                                                           |                                                                                                             |
| 2. Were ambient air containers received intact?                                                                                                                 |     |    | /  | <input type="checkbox"/> Checked in lab                                                                                                               |                                                                                                             |
| 3. The coolers/containers custody seal if present, is it intact?                                                                                                |     |    | /  | <input type="checkbox"/> Yes<br><input type="checkbox"/> NA                                                                                           |                                                                                                             |
| 4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)<br>Thermometer ID : <u>5C77</u><br>Correction factor: <u>+0.1°C</u> | /   |    |    | <input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel<br><input type="checkbox"/> Cooler Out of Temp, Same Day Receipt        |                                                                                                             |
| 5. Were all of the sample containers received intact?                                                                                                           | /   |    |    | <input type="checkbox"/> Containers, Broken                                                                                                           |                                                                                                             |
| 6. Were samples received in appropriate containers?                                                                                                             | /   |    |    | <input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel                                                                       |                                                                                                             |
| 7. Do sample container labels match COC? (IDs, Dates, Times)                                                                                                    | /   |    |    | <input type="checkbox"/> COC & Samples Do Not Match<br><input type="checkbox"/> COC Incorrect/Incomplete<br><input type="checkbox"/> COC Not Received |                                                                                                             |
| 8. Were all of the samples listed on the COC received?                                                                                                          | /   |    |    | <input type="checkbox"/> Sample Received, Not on COC<br><input type="checkbox"/> Sample on COC, Not Received                                          |                                                                                                             |
| 9. Is the date/time of sample collection noted?                                                                                                                 | /   |    |    | <input type="checkbox"/> COC; No Date/Time; Client Contacted                                                                                          |                                                                                                             |
| 10. Was the sampler identified on the COC?                                                                                                                      | /   |    |    | <input type="checkbox"/> Sampler Not Listed on COC                                                                                                    | Labeling Verified by: _____ Date: _____                                                                     |
| 11. Is the client and project name/# identified?                                                                                                                | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete                                                                                                     | pH test strip lot number: _____                                                                             |
| 12. Are tests/parameters listed for each sample?                                                                                                                | /   |    |    | <input type="checkbox"/> COC No tests on COC                                                                                                          |                                                                                                             |
| 13. Is the matrix of the samples noted?                                                                                                                         | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete                                                                                                     |                                                                                                             |
| 14. Was COC relinquished? (Signed/Dated/Timed)                                                                                                                  | /   |    |    | <input type="checkbox"/> COC Incorrect/Incomplete                                                                                                     |                                                                                                             |
| 15. Were samples received within holding time?                                                                                                                  | /   |    |    | <input type="checkbox"/> Holding Time - Receipt                                                                                                       | Box 16A: pH Preservation<br>Box 18A: Residual Chlorine                                                      |
| 16. Were samples received with correct chemical preservative (excluding Encore)?                                                                                |     |    | /  | <input type="checkbox"/> pH Adjusted, pH Included (See box 16A)<br><input type="checkbox"/> Incorrect Preservative                                    | Preservative: _____<br>Lot Number: _____<br>Exp Date: _____<br>Analyst: _____<br>Date: _____<br>Time: _____ |
| 17. Were VOA samples received without headspace?                                                                                                                |     |    | /  | <input type="checkbox"/> Headspace (VOA only)                                                                                                         |                                                                                                             |
| 18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668)<br>Chlorine test strip lot number: _____                                              |     |    | /  | <input type="checkbox"/> Residual Chlorine                                                                                                            |                                                                                                             |
| 19. For 1613B water samples is pH<9?                                                                                                                            |     |    | /  | <input type="checkbox"/> If no, notify lab to adjust                                                                                                  |                                                                                                             |
| 20. For rad samples was sample activity info. Provided?                                                                                                         |     |    | /  | <input type="checkbox"/> Project missing info                                                                                                         |                                                                                                             |
| Project #: <u>14007845</u> PM Instructions: _____                                                                                                               |     |    |    |                                                                                                                                                       |                                                                                                             |

Sample Receiving Associate: an mch Date: 4-16-25

QA026R33.doc, 11/10/23

The background features a large, light gray circular shape on the right side, partially overlapping a solid blue triangular shape on the left. The text 'APPENDIX J' is centered within the gray circle.

## APPENDIX J



# CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

## Customer & Order Information

LINDE PKG PARIS P H 80271  
41 CONSOLIDATED DR  
PARIS ON N3L 3G2

Certificate Issuance Date: 08/24/2022

Linde Order Number: 77987718

Part Number: NI CD10CO35E-AS

Customer PO Number: 72170939 Kitchener

Fill Date: 08/19/2022

Lot Number: 700012231F4

Cylinder Style & Outlet: AS

Cylinder Pressure and Volume: 2000 psig 148 ft3

## Certified Concentration

|                  |                 |                      |
|------------------|-----------------|----------------------|
| Expiration Date: | 08/24/2030      | NIST Traceable       |
| Cylinder Number: | DT0047098       | Expanded Uncertainty |
| 9.99 %           | Oxygen          | ± 0.03 %             |
| 9.74 %           | Carbon dioxide  | ± 0.06 %             |
| 201 ppm          | Carbon monoxide | ± 1 ppm              |
| Balance          | Nitrogen        |                      |

## ProSpec EZ Cert



## Certification Information:

Certification Date: 08/24/2022

Term: 96 Months

Expiration Date: 08/24/2030

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Uncertainty above is expressed as absolute expanded uncertainty at a level of confidence of approximately 95% with a coverage factor  $k = 2$ . Do Not Use this Standard if Pressure is less than 100 PSIG.

## Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

### 1. Component:

#### Oxygen

Requested Concentration: 10.0 %  
Certified Concentration: 9.99 %  
Instrument Used: Servomex 575  
Analytical Method: Paramagnetic  
Last Multipoint Calibration: 08/05/2022

| First Analysis Data: |       |                  |      | Date | 08/24/2022 |
|----------------------|-------|------------------|------|------|------------|
| Z:                   | 0     | R:               | 22.5 | C:   | 9.99       |
| R:                   | 22.51 | Z:               | 0    | C:   | 9.99       |
| Z:                   | 0     | C:               | 9.98 | R:   | 22.51      |
| UOM:                 | %     | Mean Test Assay: | 9.99 | %    |            |

### Reference Standard:

Type / Cylinder #: GMIS / EB0117195

Concentration / Uncertainty: 22.51 % ± 0.01 %

Expiration Date: 12/02/2027

Traceable to: SRM # / Sample # / Cylinder #: 2659a / 71-D-XX / CALO15785

SRM Concentration / Uncertainty: 20.720 % / ± 0.043 %

SRM Expiration Date: 08/23/2021

| Second Analysis Data: |   |                  |   | Date |   |
|-----------------------|---|------------------|---|------|---|
| Z:                    | 0 | R:               | 0 | C:   | 0 |
| R:                    | 0 | Z:               | 0 | C:   | 0 |
| Z:                    | 0 | C:               | 0 | R:   | 0 |
| UOM:                  | % | Mean Test Assay: |   | %    |   |

### 2. Component:

#### Carbon dioxide

Requested Concentration: 10.0 %  
Certified Concentration: 9.74 %  
Instrument Used: Horiba VA-5000  
Analytical Method: NDIR  
Last Multipoint Calibration: 07/25/2022

| First Analysis Data: |    |                  |       | Date | 08/24/2022 |
|----------------------|----|------------------|-------|------|------------|
| Z:                   | 0  | R:               | 19.99 | C:   | 9.74       |
| R:                   | 20 | Z:               | 0     | C:   | 9.75       |
| Z:                   | 0  | C:               | 9.74  | R:   | 20         |
| UOM:                 | %  | Mean Test Assay: | 9.74  | %    |            |

### Reference Standard:

Type / Cylinder #: PRM / DT0032694

Concentration / Uncertainty: 19.99 % ± 0.04 %

Expiration Date: 01/02/2028

Traceable to: SRM # / Sample # / Cylinder #: PRM#FF276163 / PRM#FF276163 / FF276163

SRM Concentration / Uncertainty: 20.008 % / ± 0.028 %

SRM Expiration Date: 04/01/2020

| Second Analysis Data: |   |                  |   | Date |   |
|-----------------------|---|------------------|---|------|---|
| Z:                    | 0 | R:               | 0 | C:   | 0 |
| R:                    | 0 | Z:               | 0 | C:   | 0 |
| Z:                    | 0 | C:               | 0 | R:   | 0 |
| UOM:                  | % | Mean Test Assay: |   | %    |   |

### 3. Component:

#### Carbon monoxide

Requested Concentration: 200 ppm  
Certified Concentration: 201 ppm  
Instrument Used: Horiba VA-5000  
Analytical Method: NDIR  
Last Multipoint Calibration: 07/25/2022

| First Analysis Data: |       |                  |       | Date | 08/24/2022 |
|----------------------|-------|------------------|-------|------|------------|
| Z:                   | 0     | R:               | 250.2 | C:   | 201        |
| R:                   | 250.3 | Z:               | 0     | C:   | 201        |
| Z:                   | 0     | C:               | 201   | R:   | 250.2      |
| UOM:                 | ppm   | Mean Test Assay: | 201   | ppm  |            |

### Reference Standard:

Type / Cylinder #: GMIS / EB0020579

Concentration / Uncertainty: 250.3 ppm ± 0.7 ppm

Expiration Date: 03/16/2026

Traceable to: SRM # / Sample # / Cylinder #: 2636a / 57-F-15 / FF30792

SRM Concentration / Uncertainty: 247.1 ppm / ± 0.5 ppm

SRM Expiration Date: 03/26/2018

| Second Analysis Data: |     |                  |   | Date |   |
|-----------------------|-----|------------------|---|------|---|
| Z:                    | 0   | R:               | 0 | C:   | 0 |
| R:                    | 0   | Z:               | 0 | C:   | 0 |
| Z:                    | 0   | C:               | 0 | R:   | 0 |
| UOM:                  | ppm | Mean Test Assay: |   | ppm  |   |

Analyzed By

Mike Monnette

Certified By

Edward E Zucal



# CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

## Customer & Order Information

LINDE PKG PARIS P H 80271  
41 CONSOLIDATED DR  
PARIS ON N3L 3G2

Certificate Issuance Date: 10/01/2024

Linde Order Number: 42685196

Part Number: NI CD25CO7E-AS

Customer PO Number: 72922393 Hamilton

Fill Date: 09/11/2024

Lot Number: 70086425501

Cylinder Style & Outlet: AS

Cylinder Pressure and Volume: 2000 psig

CGA 590

165 ft3

## Certified Concentration

|                  |                 |                      |
|------------------|-----------------|----------------------|
| Expiration Date: | 10/01/2032      | NIST Traceable       |
| Cylinder Number: | CC700504        | Expanded Uncertainty |
| 25.37 %          | Carbon dioxide  | ± 0.07 %             |
| 1966 ppm         | Carbon monoxide | ± 7 ppm              |
| 20.98 %          | Oxygen          | ± 0.06 %             |
| Balance          | Nitrogen        |                      |

## ProSpec EZ Cert



## Certification Information:

Certification Date: 10/01/2024

Term: 96 Months

Expiration Date: 10/01/2032

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Uncertainty above is expressed as absolute expanded uncertainty at a level of confidence of approximately 95% with a coverage factor  $k = 2$ . Do Not Use this Standard if Pressure is less than 100 PSIG.

CO2 responses have been corrected for Oxygen IR Broadening effect. CO responses have been corrected for CO2 interference. CO responses have been corrected for O2 interference. O2 responses have been corrected for CO2 interference.

## Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

### 1. Component:

#### Carbon dioxide

Requested Concentration: 25 %  
Certified Concentration: 25.37 %  
Instrument Used: Horiba VIA-510 S/N 20C194WK  
Analytical Method: NDIR  
Last Multipoint Calibration: 09/30/2024

| First Analysis Data: |       |                  |       | Date | 10/01/2024 |
|----------------------|-------|------------------|-------|------|------------|
| Z:                   | 0     | R:               | 26.96 | C:   | 25.43      |
| R:                   | 27.03 | Z:               | 0     | C:   | 25.44      |
| Z:                   | 0     | C:               | 25.35 | R:   | 27         |
| UOM:                 | %     | Mean Test Assay: | 25.37 | %    |            |

### Reference Standard:

Type / Cylinder #: GMIS / CC305911

Concentration / Uncertainty: 26.96 % ±0.05 %

Expiration Date: 03/29/2031

Traceable to: SRM # / Sample # / Cylinder #: RGM#CC193512 / N/A / CC193512

SRM Concentration / Uncertainty: 26.99% / ±0.05%

SRM Expiration Date: 05/15/2023

| Second Analysis Data: |   |                  |   | Date |   |
|-----------------------|---|------------------|---|------|---|
| Z:                    | 0 | R:               | 0 | C:   | 0 |
| R:                    | 0 | Z:               | 0 | C:   | 0 |
| Z:                    | 0 | C:               | 0 | R:   | 0 |
| UOM:                  | % | Mean Test Assay: |   | %    |   |

### 2. Component:

#### Carbon monoxide

Requested Concentration: 2000 ppm  
Certified Concentration: 1966 ppm  
Instrument Used: Horiba VIA-510 S/N 576876015  
Analytical Method: NDIR  
Last Multipoint Calibration: 09/30/2024

| First Analysis Data: |      |                  |      | Date | 10/01/2024 |
|----------------------|------|------------------|------|------|------------|
| Z:                   | 0    | R:               | 3017 | C:   | 1966       |
| R:                   | 3017 | Z:               | 0    | C:   | 1968       |
| Z:                   | 0    | C:               | 1966 | R:   | 3021       |
| UOM:                 | ppm  | Mean Test Assay: | 1966 | ppm  |            |

### Reference Standard:

Type / Cylinder #: GMIS / CC78026

Concentration / Uncertainty: 3017 ppm ±10 ppm

Expiration Date: 09/19/2031

Traceable to: SRM # / Sample # / Cylinder #: SRM 2638a / 55-F-06 / FF30713

SRM Concentration / Uncertainty: 4935 PPM / ±11 PPM

SRM Expiration Date: 09/30/2027

| Second Analysis Data: |     |                  |   | Date |   |
|-----------------------|-----|------------------|---|------|---|
| Z:                    | 0   | R:               | 0 | C:   | 0 |
| R:                    | 0   | Z:               | 0 | C:   | 0 |
| Z:                    | 0   | C:               | 0 | R:   | 0 |
| UOM:                  | ppm | Mean Test Assay: |   | ppm  |   |

### 3. Component:

#### Oxygen

Requested Concentration: 21 %  
Certified Concentration: 20.98 %  
Instrument Used: Siemens Oxymat 6E S/N 7MB20211AA000CA1  
Analytical Method: Paramagnetic  
Last Multipoint Calibration: 09/04/2024

| First Analysis Data: |       |                  |       | Date | 10/01/2024 |
|----------------------|-------|------------------|-------|------|------------|
| Z:                   | 0     | R:               | 20.86 | C:   | 21         |
| R:                   | 20.88 | Z:               | 0     | C:   | 21         |
| Z:                   | 0     | C:               | 21.01 | R:   | 20.9       |
| UOM:                 | %     | Mean Test Assay: | 20.98 | %    |            |

### Reference Standard:

Type / Cylinder #: GMIS / DT0040804

Concentration / Uncertainty: 20.86 % ±0.05 %

Expiration Date: 09/09/2032

Traceable to: SRM # / Sample # / Cylinder #: 2659a / 71-D-23 / CAL015788

SRM Concentration / Uncertainty: 20.720 % / ±0.043 %

SRM Expiration Date: 02/28/2026

| Second Analysis Data: |   |                  |   | Date |   |
|-----------------------|---|------------------|---|------|---|
| Z:                    | 0 | R:               | 0 | C:   | 0 |
| R:                    | 0 | Z:               | 0 | C:   | 0 |
| Z:                    | 0 | C:               | 0 | R:   | 0 |
| UOM:                  | % | Mean Test Assay: |   | %    |   |

Analyzed By

Miriam Bahena

Certified By

Nelson Ma

**Dry Gas Meter Calibration Certificate**

DGM Console ID: H  
DGM Serial #: -  
Calibration Date: 2025-01-31  
Calibrated by SM

|                     |                                         |
|---------------------|-----------------------------------------|
| Barometric Pressure | 723.81 mmHg<br>96.50 kPa                |
| Ambient T           | 21.7 °C                                 |
| %r.H                | 25.00%                                  |
| W                   | 0.00401 lb/lb                           |
| B <sub>wo</sub>     | 0.0064 ft <sup>3</sup> /ft <sup>3</sup> |

| LEAK CHECK    | DGM (ft <sup>3</sup> ) | WGM (L) |
|---------------|------------------------|---------|
| initial value | 0.00                   | 13.9    |
| final value   | 0.22                   | 14.20   |
| time (1 min)  | 1                      | 1       |
| Pass/Fail     | PASS                   | PASS    |

| Dry Gas Meter Values          |                              |                                    |                                  |                                  |                    |                     |                       |               | Wet Gas Meter Values |                              |                     |                   |                                  |                    |                     |                   |                     |       | OSTC                  | US EPA                     |                         |
|-------------------------------|------------------------------|------------------------------------|----------------------------------|----------------------------------|--------------------|---------------------|-----------------------|---------------|----------------------|------------------------------|---------------------|-------------------|----------------------------------|--------------------|---------------------|-------------------|---------------------|-------|-----------------------|----------------------------|-------------------------|
| Δ H<br>(in. H <sub>2</sub> O) | Δ H<br>(cm H <sub>2</sub> O) | Initial Vol.<br>(ft <sup>3</sup> ) | Final Vol.<br>(ft <sup>3</sup> ) | Volume (Vd)<br>(m <sup>3</sup> ) | Temp inlet<br>(°F) | Temp outlet<br>(°F) | Temp Avg (td)<br>(°C) | Time<br>(min) | Δ M<br>Pa            | Δ M<br>(cm H <sub>2</sub> O) | Initial Vol.<br>(L) | Final Vol.<br>(L) | Volume (Vw)<br>(m <sup>3</sup> ) | Temp inlet<br>(°C) | Temp outlet<br>(°C) | Temp (tw)<br>(°C) | Calibration Factors |       | Tolerance<br>Y (≤±2%) | Tolerance A<br>>0.95, <1.0 | Tolerance B<br>Y (0.03) |
| Y                             | Δ H <sub>g</sub>             |                                    |                                  |                                  |                    |                     |                       |               |                      |                              |                     |                   |                                  |                    |                     |                   |                     |       |                       |                            |                         |
| 0.25                          | 0.635                        | 0.00                               | 5.84                             | 0.165                            | 71                 | 72                  | 21.9                  | 20            | 20                   | 0.20                         | 14.20               | 172.90            | 0.159                            | 22                 | 22.0                | 22.00             | 0.953               | 1.921 | -1.1%                 | VALID                      | VALID                   |
| 0.25                          | 0.635                        | 0.00                               | 5.81                             | 0.165                            | 72                 | 71                  | 21.9                  | 20            | 20                   | 0.20                         | 172.90              | 330.60            | 0.158                            | 22                 | 22.0                | 22.00             | 0.951               | 1.946 | -1.3%                 | VALID                      | VALID                   |
| 0.25                          | 0.635                        | 0.00                               | 5.81                             | 0.164                            | 71                 | 71                  | 21.7                  | 20            | 20                   | 0.20                         | 330.60              | 488.70            | 0.158                            | 22                 | 22.0                | 22.00             | 0.954               | 1.938 | -1.0%                 | VALID                      | VALID                   |
|                               |                              |                                    |                                  |                                  |                    |                     |                       |               |                      |                              |                     |                   |                                  |                    |                     |                   |                     |       |                       |                            |                         |
| 0.5                           | 1.270                        | 0.00                               | 8.24                             | 0.233                            | 71                 | 71                  | 21.7                  | 20            | 20                   | 0.20                         | 488.70              | 714.70            | 0.226                            | 21.0               | 22.0                | 21                | 0.963               | 1.886 | 0.0%                  | VALID                      | VALID                   |
| 0.5                           | 1.270                        | 0.00                               | 8.23                             | 0.233                            | 71                 | 71                  | 21.7                  | 20            | 20                   | 0.20                         | 714.70              | 940.20            | 0.226                            | 22                 | 22.0                | 21                | 0.962               | 1.895 | -0.2%                 | VALID                      | VALID                   |
| 0.5                           | 1.270                        | 0.00                               | 8.24                             | 0.233                            | 71                 | 73                  | 22.2                  | 20            | 20                   | 0.20                         | 940.20              | 1165.70           | 0.226                            | 22                 | 22.5                | 22.25             | 0.960               | 1.907 | -0.4%                 | VALID                      | VALID                   |
|                               |                              |                                    |                                  |                                  |                    |                     |                       |               |                      |                              |                     |                   |                                  |                    |                     |                   |                     |       |                       |                            |                         |
| 1                             | 2.540                        | 0.00                               | 8.72                             | 0.247                            | 75                 | 76                  | 24.2                  | 15            | 40                   | 0.41                         | 1485.10             | 1723.90           | 0.239                            | 23                 | 23.0                | 23                | 0.963               | 1.914 | -0.1%                 | VALID                      | VALID                   |
| 1                             | 2.540                        | 0.00                               | 8.72                             | 0.247                            | 76                 | 76                  | 24.4                  | 15            | 40                   | 0.41                         | 1723.90             | 1962.60           | 0.239                            | 23                 | 23.0                | 23                | 0.963               | 1.914 | -0.1%                 | VALID                      | VALID                   |
| 1                             | 2.540                        | 0.00                               | 8.72                             | 0.247                            | 76                 | 76                  | 24.4                  | 15            | 40                   | 0.41                         | 1962.60             | 2201.60           | 0.239                            | 23                 | 23.0                | 23                | 0.964               | 1.909 | 0.1%                  | VALID                      | VALID                   |
|                               |                              |                                    |                                  |                                  |                    |                     |                       |               |                      |                              |                     |                   |                                  |                    |                     |                   |                     |       |                       |                            |                         |
| 2                             | 5.080                        | 0.00                               | 9.68                             | 0.274                            | 72                 | 72                  | 22.2                  | 12            | 60                   | 0.61                         | 2209.90             | 2478.80           | 0.269                            | 22                 | 22.0                | 22                | 0.971               | 1.941 | 0.8%                  | VALID                      | VALID                   |
| 2                             | 5.080                        | 0.00                               | 9.61                             | 0.272                            | 72                 | 72                  | 22.2                  | 12            | 60                   | 0.61                         | 2478.80             | 2745.50           | 0.267                            | 22                 | 22.0                | 22                | 0.970               | 1.973 | 0.6%                  | VALID                      | VALID                   |
| 2                             | 5.080                        | 0.00                               | 9.89                             | 0.280                            | 72                 | 72                  | 22.2                  | 12            | 60                   | 0.61                         | 2745.50             | 3019.80           | 0.274                            | 22                 | 22.0                | 22                | 0.970               | 1.866 | 0.6%                  | VALID                      | VALID                   |
|                               |                              |                                    |                                  |                                  |                    |                     |                       |               |                      |                              |                     |                   |                                  |                    |                     |                   |                     |       |                       |                            |                         |
| 4                             | 10.160                       | 0.00                               | 11.22                            | 0.318                            | 72                 | 74                  | 22.8                  | 10            | 80                   | 0.82                         | 3019.80             | 3333.20           | 0.313                            | 22                 | 23.0                | 22.5              | 0.972               | 2.008 | 0.8%                  | VALID                      | VALID                   |
| 4                             | 10.160                       | 0.00                               | 11.29                            | 0.320                            | 74                 | 75                  | 23.6                  | 10            | 80                   | 0.82                         | 3333.20             | 3647.70           | 0.315                            | 23                 | 23.0                | 23                | 0.970               | 1.995 | 0.6%                  | VALID                      | VALID                   |
| 4                             | 10.160                       | 0.00                               | 11.36                            | 0.322                            | 75                 | 75                  | 23.9                  | 10            | 80                   | 0.82                         | 3647.70             | 3963.90           | 0.316                            | 23                 | 23.0                | 23                | 0.970               | 1.971 | 0.7%                  | VALID                      | VALID                   |

Psychrometric Calculator

<http://www.hvac-calculator.net/index.php?v=2>

AVERAGE = 0.9637 1.9323

## Dry Gas Meter Calibration Certificate

DGM Console ID: D

DGM Serial #: -

Calibration Date: 7-Feb-25

Calibrated by PB

|                     |           |             |
|---------------------|-----------|-------------|
| Barometric Pressure | 765.81    | mmHg        |
|                     | 102.10    | kPa         |
|                     | Ambient T | 21.67 °C    |
|                     | %r.H      | 21.00%      |
|                     | W         | 0.003 lb/lb |
| B <sub>wo</sub>     | 0.0048100 | ft³/ft³     |

| LEAK CHECK    | DGM (ft³) | WGM (L) |
|---------------|-----------|---------|
| initial value | 0.00      | Pass    |
| final value   | 0.02      | Pass    |
| time (1 min)  | 1         | 1       |
| Pass/Fail     | PASS      | PASS    |

| Dry Gas Meter Values     |                       |              |            |             |            |             |               |       | Wet Gas Meter Values |                       |              |            |             |            |             |           |                     |                  |           |             | OSTC        | US EPA |  |
|--------------------------|-----------------------|--------------|------------|-------------|------------|-------------|---------------|-------|----------------------|-----------------------|--------------|------------|-------------|------------|-------------|-----------|---------------------|------------------|-----------|-------------|-------------|--------|--|
| Δ H                      | Δ H                   | Initial Vol. | Final Vol. | Volume (Vd) | Temp inlet | Temp outlet | Temp Avg (td) | Time  | Δ M                  | Δ M                   | Initial Vol. | Final Vol. | Volume (Vw) | Temp inlet | Temp outlet | Temp (tw) | Calibration Factors |                  | Tolerance | Tolerance A | Tolerance B |        |  |
| (in. H <sub>2</sub> O)   | (cm H <sub>2</sub> O) | (ft³)        | (ft³)      | (m³)        | (°F)       | (°F)        | (°C)          | (min) | Pa                   | (cm H <sub>2</sub> O) | (L)          | (L)        | (m³)        | (°C)       | (°C)        | (°C)      | Y                   | Δ H <sub>g</sub> | Y (±2%)   | >0.95, <1.0 | Y (0.03)    |        |  |
| 0.25                     | 0.635                 | 0.26         | 5.96       | 0.16        | 70         | 70          | 21.1          | 20    | 20                   | 0.204                 | 144.80       | 307.50     | 0.16        | 22.2       | 22.22       | 22.22     | 0.999               | 1.729            | -0.9%     | VALID       | VALID       |        |  |
| 0.25                     | 0.635                 | 5.96         | 11.68      | 0.16        | 70         | 72          | 21.7          | 20    | 20                   | 0.204                 | 307.50       | 470.20     | 0.16        | 22.2       | 22.78       | 22.49     | 0.997               | 1.729            | -1.0%     | VALID       | VALID       |        |  |
| 0.25                     | 0.635                 | 11.68        | 17.39      | 0.16        | 72         | 72          | 22.2          | 20    | 20                   | 0.204                 | 470.20       | 632.80     | 0.16        | 22.8       | 22.78       | 22.78     | 0.999               | 1.732            | -0.9%     | VALID       | VALID       |        |  |
|                          |                       |              |            |             |            |             |               |       |                      |                       |              |            |             |            |             |           |                     |                  |           |             |             |        |  |
| 0.5                      | 1.270                 | 17.39        | 24.87      | 0.21        | 72         | 74          | 22.8          | 20    | 20                   | 0.204                 | 632.80       | 846.20     | 0.21        | 22.8       | 23.33       | 23.055    | 1.001               | 2.013            | -0.7%     | VALID       | VALID       |        |  |
| 0.5                      | 1.270                 | 24.87        | 32.70      | 0.22        | 74         | 74          | 23.3          | 20    | 20                   | 0.204                 | 846.20       | 1069.00    | 0.22        | 23.3       | 22.78       | 23.055    | 1.001               | 1.843            | -0.7%     | VALID       | VALID       |        |  |
| 0.5                      | 1.270                 | 32.70        | 40.66      | 0.23        | 70         | 71          | 21.4          | 20    | 20                   | 0.204                 | 1069.00      | 1297.00    | 0.23        | 22.0       | 22.00       | 22        | 1.004               | 1.759            | -0.4%     | VALID       | VALID       |        |  |
|                          |                       |              |            |             |            |             |               |       |                      |                       |              |            |             |            |             |           |                     |                  |           |             |             |        |  |
| 1                        | 2.540                 | 0.00         | 8.29       | 0.23        | 71         | 72          | 21.9          | 15    | 40                   | 0.408                 | 1297.00      | 1535.90    | 0.24        | 22.0       | 23.00       | 22.5      | 1.009               | 1.809            | 0.2%      | VALID       | VALID       |        |  |
| 1                        | 2.540                 | 0.00         | 8.25       | 0.23        | 72         | 73          | 22.5          | 15    | 40                   | 0.408                 | 1535.90      | 1773.60    | 0.24        | 23.0       | 23.00       | 23        | 1.008               | 1.830            | 0.1%      | VALID       | VALID       |        |  |
| 1                        | 2.540                 | 0.00         | 8.26       | 0.23        | 73         | 73          | 22.8          | 15    | 40                   | 0.408                 | 1773.60      | 2011.00    | 0.24        | 23.0       | 23.00       | 23        | 1.007               | 1.833            | 0.0%      | VALID       | VALID       |        |  |
|                          |                       |              |            |             |            |             |               |       |                      |                       |              |            |             |            |             |           |                     |                  |           |             |             |        |  |
| 2                        | 5.080                 | 0.00         | 9.30       | 0.26        | 73         | 73          | 22.8          | 12    | 60                   | 0.612                 | 2011.00      | 2280.30    | 0.27        | 23.0       | 23.00       | 23        | 1.013               | 1.831            | 0.5%      | VALID       | VALID       |        |  |
| 2                        | 5.080                 | 0.00         | 9.28       | 0.26        | 73         | 73          | 22.8          | 12    | 60                   | 0.612                 | 2280.30      | 2549.20    | 0.27        | 23.0       | 23.00       | 23        | 1.014               | 1.837            | 0.6%      | VALID       | VALID       |        |  |
| 2                        | 5.080                 | 0.00         | 9.29       | 0.26        | 73         | 73          | 22.8          | 12    | 60                   | 0.612                 | 2549.20      | 2818.00    | 0.27        | 23.0       | 23.00       | 23        | 1.012               | 1.838            | 0.5%      | VALID       | VALID       |        |  |
|                          |                       |              |            |             |            |             |               |       |                      |                       |              |            |             |            |             |           |                     |                  |           |             |             |        |  |
| 4                        | 10.160                | 0.00         | 10.88      | 0.31        | 73         | 73          | 22.8          | 10    | 80                   | 0.816                 | 2818.00      | 3135.50    | 0.32        | 23.0       | 23.00       | 23        | 1.016               | 1.847            | 0.8%      | VALID       | VALID       |        |  |
| 4                        | 10.160                | 10.88        | 21.78      | 0.31        | 73         | 73          | 22.8          | 10    | 80                   | 0.816                 | 3135.50      | 3453.80    | 0.32        | 23.0       | 23.00       | 23        | 1.017               | 1.838            | 0.9%      | VALID       | VALID       |        |  |
| 4                        | 10.160                | 21.78        | 32.69      | 0.31        | 73         | 73          | 22.8          | 10    | 80                   | 0.816                 | 3453.80      | 3772.20    | 0.32        | 23.0       | 23.00       | 23        | 1.016               | 1.837            | 0.9%      | VALID       | VALID       |        |  |
| Psychrometric Calculator |                       |              |            |             |            |             |               |       |                      |                       |              |            |             |            | AVERAGE =   |           |                     | 1.007            | 1.820     |             |             |        |  |

Psychrometric Calculator

<http://www.hvac-calculator.net/index.php?v=2>



69 Industrial Park Rd E, Tolland CT 06084  
<https://www.environics.com/service-request>  
(860) 872-1111 info@environics.com

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## SERVICE REPORT

---

ATTN: Oluwatobi Odumoye, RWDI Air Inc.

DATE OF SERVICE: 1/28/2025  
MODEL NUMBER: 4040  
SERIAL NUMBER: 9110

SERVICE TYPE: RECALIBRATION  
NEXT CALIBRATION DUE: 1/29/2026

### CONDITIONS AS OBSERVED AND WORK PERFORMED:

- Unit powers up properly.
- Unit cleaned and Purged, data verified.
- All valves checked, ok.
- Checked for any software updates
- Voltages checked – 5v, -15v, +15v, 24v.
- Battery voltage checked.
- Unit leak tested.
- Tested all MFC's with each port.
- Zeros on each MFC checked/adjusted.
- Spans checked/adjusted on all MFCs.
- As-found verification run on all MFCs.
- All MFCs recalibrated.
- Verified all MFCs @ 5 standard points, passed within 0.5%
- All cables and screw/nuts tightened, ok.

---

Service Technician



69 Industrial Park Rd E, Tolland CT 06084  
<https://www.environics.com/service-request>  
(860) 872-1111 info@environics.com

## ENVIRONICS FLOW CONTROLLER CALIBRATION REPORT

| Unit Summary |      | Std Conditions |              | MFC Summary  |            |
|--------------|------|----------------|--------------|--------------|------------|
| Model #:     | 4040 | Temp:          | 32°F         | MFC #:       | 1          |
| Unit SN :    | 9110 | Pressure:      | 29.92 in. Hg | MFC FS Flow: | 10000      |
|              |      | Gas:           | NITROGEN     | MFC S/N:     | 0963707020 |

Flow Calibration Data is not performance data. This data is used by the system operating mode to improve the flow accuracy. The Flow Verification Data is performance data.

### Flow Calibration Data

|      | Set Flow | True Flow |
|------|----------|-----------|
| 5%   | 500      | 493.119   |
| 10%  | 1000     | 1000.936  |
| 20%  | 2000     | 2034.074  |
| 30%  | 3000     | 3062.205  |
| 40%  | 4000     | 4088.177  |
| 50%  | 5000     | 5103.014  |
| 60%  | 6000     | 6123.827  |
| 70%  | 7000     | 7148.563  |
| 80%  | 8000     | 8144.084  |
| 90%  | 9000     | 9160.612  |
| 100% | 10000    | 10168.550 |

All values in SCCM

### Flow Verification Data

|     | Set Flow | True Flow | % dev  |
|-----|----------|-----------|--------|
| 99% | 9900     | 9909.452  | 0.10%  |
| 85% | 8500     | 8503.509  | 0.04%  |
| 55% | 5500     | 5509.475  | 0.17%  |
| 25% | 2500     | 2497.957  | -0.08% |
| 10% | 1000     | 996.356   | -0.36% |

All values in SCCM

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Verified by: Paul Stansel

Date: 1/28/25



69 Industrial Park Rd E, Tolland CT 06084  
<https://www.environics.com/service-request>  
(860) 872-1111 info@environics.com

## ENVIRONICS FLOW CONTROLLER CALIBRATION REPORT

| Unit Summary |      | Std Conditions |              | MFC Summary  |            |
|--------------|------|----------------|--------------|--------------|------------|
| Model #:     | 4040 | Temp:          | 32°F         | MFC #:       | 2          |
| Unit SN :    | 9110 | Pressure:      | 29.92 in. Hg | MFC FS Flow: | 10000      |
|              |      | Gas:           | NITROGEN     | MFC S/N:     | 0963707021 |

Flow Calibration Data is not performance data. This data is used by the system operating mode to improve the flow accuracy. The Flow Verification Data is performance data.

### Flow Calibration Data

|      | Set Flow | True Flow |
|------|----------|-----------|
| 5%   | 500      | 529.231   |
| 10%  | 1000     | 1068.753  |
| 20%  | 2000     | 2133.342  |
| 30%  | 3000     | 3183.154  |
| 40%  | 4000     | 4214.712  |
| 50%  | 5000     | 5236.318  |
| 60%  | 6000     | 6243.737  |
| 70%  | 7000     | 7257.552  |
| 80%  | 8000     | 8233.789  |
| 90%  | 9000     | 9236.595  |
| 100% | 10000    | 10219.119 |

All values in SCCM

### Flow Verification Data

|     | Set Flow | True Flow | % dev  |
|-----|----------|-----------|--------|
| 99% | 9900     | 9916.200  | 0.16%  |
| 85% | 8500     | 8508.471  | 0.10%  |
| 55% | 5500     | 5504.922  | 0.09%  |
| 25% | 2500     | 2496.246  | -0.15% |
| 10% | 1000     | 996.509   | -0.35% |

All values in SCCM

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Verified by: Paul Stanse

Date: 1/28/25



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## ENVIRONICS FLOW CONTROLLER CALIBRATION REPORT

| Unit Summary |      | Std Conditions |              | MFC Summary  |            |
|--------------|------|----------------|--------------|--------------|------------|
| Model #:     | 4040 | Temp:          | 32°F         | MFC #:       | 3          |
| Unit SN :    | 9110 | Pressure:      | 29.92 in. Hg | MFC FS Flow: | 1000       |
|              |      | Gas:           | NITROGEN     | MFC S/N:     | 0963709009 |

Flow Calibration Data is not performance data. This data is used by the system operating mode to improve the flow accuracy. The Flow Verification Data is performance data.

### Flow Calibration Data

|      | Set Flow | True Flow |
|------|----------|-----------|
| 5%   | 50       | 48.193    |
| 10%  | 100      | 98.925    |
| 20%  | 200      | 201.870   |
| 30%  | 300      | 304.112   |
| 40%  | 400      | 406.503   |
| 50%  | 500      | 508.003   |
| 60%  | 600      | 611.235   |
| 70%  | 700      | 713.510   |
| 80%  | 800      | 814.475   |
| 90%  | 900      | 915.398   |
| 100% | 1000     | 1016.872  |

All values in SCCM

### Flow Verification Data

|     | Set Flow | True Flow | % dev  |
|-----|----------|-----------|--------|
| 99% | 990      | 991.088   | 0.11%  |
| 85% | 850      | 850.057   | 0.01%  |
| 55% | 550      | 550.842   | 0.15%  |
| 25% | 250      | 249.982   | -0.01% |
| 10% | 100      | 99.821    | -0.18% |

All values in SCCM

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Verified by: Paul Stanse l

Date: 1/28/25



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## ENVIRONICS FLOW CONTROLLER CALIBRATION REPORT

| Unit Summary |      | Std Conditions |              | MFC Summary  |            |
|--------------|------|----------------|--------------|--------------|------------|
| Model #:     | 4040 | Temp:          | 32°F         | MFC #:       | 4          |
| Unit SN :    | 9110 | Pressure:      | 29.92 in. Hg | MFC FS Flow: | 100        |
|              |      | Gas:           | NITROGEN     | MFC S/N:     | 0963711002 |

Flow Calibration Data is not performance data. This data is used by the system operating mode to improve the flow accuracy. The Flow Verification Data is performance data.

### Flow Calibration Data

|      | Set Flow | True Flow |
|------|----------|-----------|
| 5%   | 5        | 4.830     |
| 10%  | 10       | 9.937     |
| 20%  | 20       | 20.151    |
| 30%  | 30       | 30.361    |
| 40%  | 40       | 40.606    |
| 50%  | 50       | 50.689    |
| 60%  | 60       | 60.887    |
| 70%  | 70       | 71.100    |
| 80%  | 80       | 81.266    |
| 90%  | 90       | 91.543    |
| 100% | 100      | 101.790   |

All values in SCCM

### Flow Verification Data

|     | Set Flow | True Flow | % dev  |
|-----|----------|-----------|--------|
| 99% | 99       | 99.277    | 0.28%  |
| 85% | 85       | 85.072    | 0.08%  |
| 55% | 55       | 55.091    | 0.17%  |
| 25% | 25       | 25.035    | 0.14%  |
| 10% | 10       | 9.969     | -0.31% |

All values in SCCM

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Verified by: Paul Stanse

Date: 1/28/25

**RWDI- EPA Method 205 Field Evaluation (as per Section 3.2)**

High-Level Supply Gas Cylinder number: CC700504

Concentration: 2098 %

| Envionics Condition #1 |       |                         |                   |                     |                                    |                                 |
|------------------------|-------|-------------------------|-------------------|---------------------|------------------------------------|---------------------------------|
|                        | Time  | Envionics Concentration | Analyzer Response | Absolute Difference | Percentage Difference <sup>1</sup> | Response Variation <sup>2</sup> |
| 1                      | 18:09 | 10.00                   | 10.20             | 0.20                | 2.00%                              | 0.00%                           |
| 2                      | 18:15 | 10.00                   | 10.20             | 0.20                | 2.00%                              | 0.00%                           |
| 3                      | 18:20 | 10.00                   | 10.20             | 0.20                | 2.00%                              | 0.00%                           |
| Average                |       |                         | 10.20             | 0.20                | 2.00%                              |                                 |

<sup>1</sup>Analyzer response can not average more than 2% from the Envionics concentration:

Pass

<sup>2</sup>No analyzer response can differ more than 2% from the average of the analyzer responses:

Pass

| Envionics Condition #2 |       |                         |                   |                     |                                    |                                 |
|------------------------|-------|-------------------------|-------------------|---------------------|------------------------------------|---------------------------------|
|                        | Time  | Envionics Concentration | Analyzer Response | Absolute Difference | Percentage Difference <sup>1</sup> | Response Variation <sup>2</sup> |
| 1                      | 18:07 | 16.00                   | 16.20             | 0.20                | 1.25%                              | 0.06%                           |
| 2                      | 18:13 | 16.00                   | 16.17             | 0.17                | 1.06%                              | -0.12%                          |
| 3                      | 18:17 | 16.00                   | 16.20             | 0.20                | 1.25%                              | 0.06%                           |
| Average                |       |                         | 16.19             | 0.19                | 1.19%                              |                                 |

<sup>1</sup>Analyzer response can not average more than 2% from the Envionics concentration:

Pass

<sup>2</sup>No analyzer response can differ more than 2% from the average of the analyzer responses:

Pass

Direct Gas Cylinder number: DT0047098

Concentration: 10.0 %

| Direct Gas Cylinder |       |                        |                   |                     |                                    |                                 |
|---------------------|-------|------------------------|-------------------|---------------------|------------------------------------|---------------------------------|
|                     | Time  | Cylinder Concentration | Analyzer Response | Absolute Difference | Percentage Difference <sup>1</sup> | Response Variation <sup>2</sup> |
| 1                   | 18:23 | 9.99                   | 10.07             | 0.08                | 0.80%                              | 0.10%                           |
| 2                   | 18:26 | 9.99                   | 10.06             | 0.07                | 0.70%                              | 0.00%                           |
| 3                   | 18:29 | 9.99                   | 10.05             | 0.06                | 0.60%                              | -0.10%                          |
| Average             |       |                        | 10.06             | 0.07                | 0.70%                              |                                 |

<sup>1</sup>Analyzer response can not average more than 2% from the Envionics concentration:

Pass

<sup>2</sup>No analyzer response can differ more than 2% from the average of the analyzer responses:

Pass

Calibration Date: 20-Feb-25  
DGM Console ID: 30B Console A  
DGM Serial #: Hg-220-2126

Barometric Pressure: 98.06 kPa  
W (lb/lb) 0.00319

%r.H 18.00% B<sub>wo</sub> (ft<sup>3</sup>/ft<sup>3</sup>) 0.0051 Ambient T: 22.7 C

Calibration Done By: SM

### Side A

| Leak Check     | Side A | WGM    |
|----------------|--------|--------|
| Initial Volume | 0.00   | 485.10 |
| Final Volume   | 3.84   | 489.00 |
| Time           | 1 min  | 1 min  |
| Pass/Fail      | PASS   | PASS   |

| Dry Gas Meter Values        |                                       |                |              |              |               |                |                       |      |       | Wet Gas Meter Values          |                |              |              |                        |                | Calibration                   |        | US EPA    |             |             |
|-----------------------------|---------------------------------------|----------------|--------------|--------------|---------------|----------------|-----------------------|------|-------|-------------------------------|----------------|--------------|--------------|------------------------|----------------|-------------------------------|--------|-----------|-------------|-------------|
| Δ H<br>(" H <sub>2</sub> O) | Rotameter<br>Middle of Bar<br>(L/min) | Volume (Vd)    |              |              | Temperature   |                |                       |      | Time  | Δ M<br>(hPa H <sub>2</sub> O) | Volume (Vw)    |              |              | Temp (t <sub>w</sub> ) |                |                               | Factor | Tolerance | Tolerance A | Tolerance B |
|                             |                                       | Initial<br>(L) | Final<br>(L) | Total<br>(L) | inlet<br>(°F) | outlet<br>(°F) | Avg (t <sub>d</sub> ) |      | (min) |                               | Initial<br>(L) | Final<br>(L) | Total<br>(L) | inlet<br>(°C)          | outlet<br>(°C) | Avg (t <sub>w</sub> )<br>(°C) | Y      | ± 2%      | >0.95, <1.0 | Y (0.03)    |
| 0.8                         | 0.5                                   | 0.000          | 13.63        | 13.63        | 62            | 66             | 64.0                  | 17.8 | 20    | 5                             | 489.00         | 503.40       | 14.40        | 22                     | 22             | 22                            | 1.039  | #DIV/0!   | VALID       | VALID       |
| 0.8                         | 0.5                                   | 13.629         | 27.15        | 13.52        | 66            | 69             | 67.5                  | 19.7 | 20    | 5                             | 503.40         | 517.20       | 13.80        | 22                     | 23             | 22.25                         | 1.010  | #DIV/0!   | VALID       | VALID       |
| 0.8                         | 0.5                                   | 0.000          | 13.51        | 13.51        | 69            | 71             | 70.0                  | 21.1 | 20    | 5                             | 517.20         | 531.00       | 13.80        | 23                     | 23             | 22.75                         | 1.014  | #DIV/0!   | VALID       | VALID       |
| Average                     |                                       |                |              | 13.55        |               |                | 67.2                  |      |       |                               |                |              | 14.00        |                        |                | 22.3                          | 1.021  |           |             |             |
| 1.2                         | 1.0                                   | 0.000          | 12.82        | 12.82        | 74            | 75             | 74.5                  | 23.6 | 10    | 10                            | 570.10         | 583.4        | 13.30        | 24                     | 24             | 24                            | 1.041  | #DIV/0!   | VALID       | VALID       |
| 1.2                         | 1.0                                   | 0.000          | 12.87        | 12.87        | 75            | 76             | 75.5                  | 24.2 | 10    | 10                            | 583.40         | 596.40       | 13.00        | 24                     | 24             | 24                            | 1.012  | #DIV/0!   | VALID       | VALID       |
| 1.2                         | 1.0                                   | 0.000          | 12.87        | 12.87        | 76            | 76             | 76.0                  | 24.4 | 10    | 10                            | 596.40         | 609.40       | 13.00        | 24                     | 24             | 24                            | 1.014  | #DIV/0!   | VALID       | VALID       |
| Average                     |                                       |                |              | 12.85        |               |                | 75.3                  |      |       |                               |                |              | 13.10        |                        |                | 24.0                          | 1.022  |           |             |             |
| 2.4                         | 1.9                                   | 0.000          | 21.50        | 21.50        | 76            | 76             | 76.0                  | 24.4 | 10    | 20                            | 609.40         | 631.20       | 21.80        | 24                     | 24             | 24                            | 1.024  | #DIV/0!   | VALID       | VALID       |
| 2.4                         | 1.9                                   | 0.000          | 21.59        | 21.59        | 76            | 76             | 76.0                  | 24.4 | 10    | 20                            | 631.20         | 653.10       | 21.90        | 24                     | 23             | 23.25                         | 1.027  | #DIV/0!   | VALID       | VALID       |
| 2.4                         | 1.9                                   | 0.000          | 21.54        | 21.54        | 76            | 76             | 76.0                  | 24.4 | 10    | 20                            | 653.10         | 674.90       | 21.80        | 22.5                   | 23             | 22.5                          | 1.027  | #DIV/0!   | VALID       | VALID       |
| Average                     |                                       |                |              | 21.54        |               |                | 76.0                  |      |       |                               |                |              | 21.83        |                        |                | 23.3                          | 1.026  |           |             |             |
| 3.1                         | 2.4                                   | 0.000          | 15.56        | 15.56        | 76            | 77             | 76.5                  | 24.7 | 6     | 40                            | 674.90         | 690.60       | 15.70        | 22                     | 23             | 22.25                         | 1.045  | #DIV/0!   | VALID       | VALID       |
| 3.1                         | 2.4                                   | 0.000          | 15.64        | 15.64        | 76            | 76             | 76.0                  | 24.4 | 6     | 40                            | 722.50         | 738.20       | 15.70        | 22                     | 22             | 22                            | 1.039  | #DIV/0!   | VALID       | VALID       |
| 3.1                         | 2.4                                   | 0.000          | 15.63        | 15.63        | 76            | 76             | 76.0                  | 24.4 | 6     | 40                            | 738.20         | 754.00       | 15.80        | 22                     | 22             | 22                            | 1.046  | #DIV/0!   | VALID       | VALID       |
| Average                     |                                       |                |              | 15.61        |               |                | 76.2                  |      |       |                               |                |              | 15.73        |                        |                | 22.1                          | 1.043  |           |             |             |
| AVERAGE =                   |                                       |                |              |              |               |                |                       |      |       |                               |                |              |              |                        |                |                               | 1.028  |           |             |             |

| Leak Check    | Side B | WGM    |
|---------------|--------|--------|
| Initial Value | 0.00   | 754.00 |
| Final Value   | 2.47   | 756.30 |
| Time          | 1 min  | 1 min  |
| Pass/Fail     | PASS   | PASS   |

### Side B

| Dry Gas Meter Values        |                                       |                |              |              |               |                |                       |      |       | Wet Gas Meter Values          |                |              |              |                        |                | Calibration                   |        | US EPA    |             |             |
|-----------------------------|---------------------------------------|----------------|--------------|--------------|---------------|----------------|-----------------------|------|-------|-------------------------------|----------------|--------------|--------------|------------------------|----------------|-------------------------------|--------|-----------|-------------|-------------|
| Δ H<br>(" H <sub>2</sub> O) | Rotameter<br>Middle of Bar<br>(L/min) | Volume (Vd)    |              |              | Temperature   |                |                       |      | Time  | Δ M<br>(hPa H <sub>2</sub> O) | Volume (Vw)    |              |              | Temp (t <sub>w</sub> ) |                |                               | Factor | Tolerance | Tolerance A | Tolerance B |
|                             |                                       | Initial<br>(L) | Final<br>(L) | Total<br>(L) | inlet<br>(°F) | outlet<br>(°F) | Avg (t <sub>d</sub> ) |      | (min) |                               | Initial<br>(L) | Final<br>(L) | Total<br>(L) | inlet<br>(°C)          | outlet<br>(°C) | Avg (t <sub>w</sub> )<br>(°C) | Y      | ± 2%      | >0.95, <1.0 | Y (0.03)    |
| 0.8                         | 0.5                                   | 0.000          | 7.38         | 7.38         | 76            | 77             | 76.5                  | 24.7 | 20    | 5                             | 756.30         | 763.90       | 7.60         | 23                     | 23             | 23                            | 1.033  | #DIV/0!   | VALID       | VALID       |
| 0.8                         | 0.5                                   | 0.000          | 7.43         | 7.43         | 77            | 75             | 76.0                  | 24.4 | 20    | 5                             | 778.60         | 786.10       | 7.50         | 22                     | 22             | 22                            | 1.016  | #DIV/0!   | VALID       | VALID       |
| 0.8                         | 0.5                                   | 0.000          | 7.40         | 7.40         | 77            | 77             | 77.0                  | 25.0 | 20    | 5                             | 771.10         | 778.60       | 7.50         | 22                     | 22             | 22                            | 1.021  | #DIV/0!   | VALID       | VALID       |
| Average                     |                                       |                |              | 7.40         |               |                | 76.5                  |      |       |                               |                |              | 7.53         |                        |                | 22.3                          | 1.023  |           |             |             |
| 1.2                         | 1.0                                   | 0.000          | 7.88         | 7.88         | 70            | 70             | 70.0                  | 21.1 | 10    | 10                            | 794.00         | 802.1        | 8.10         | 20.5                   | 21             | 20.5                          | 1.033  | #DIV/0!   | VALID       | VALID       |
| 1.2                         | 1.0                                   | 0.000          | 7.92         | 7.92         | 70            | 71             | 70.5                  | 21.4 | 10    | 10                            | 915.70         | 923.80       | 8.10         | 21                     | 22             | 21.5                          | 1.024  | #DIV/0!   | VALID       | VALID       |
| 1.2                         | 1.0                                   | 0.000          | 7.95         | 7.95         | 71            | 71             | 71.0                  | 21.7 | 10    | 10                            | 809.80         | 817.9        | 8.10         | 22                     | 22             | 22                            | 1.020  | #DIV/0!   | VALID       | VALID       |
| Average                     |                                       |                |              | 7.91         |               |                | 70.5                  |      |       |                               |                |              | 8.10         |                        |                | 21.3                          | 1.026  |           |             |             |
| 2.4                         | 1.9                                   | 0.000          | 18.14        | 18.14        | 72            | 72             | 72.0                  | 22.2 | 10    | 20                            | 817.90         | 836.10       | 18.20        | 22.5                   | 22             | 22.25                         | 1.012  | #DIV/0!   | VALID       | VALID       |
| 2.4                         | 1.9                                   | 0.000          | 18.23        | 18.23        | 72            | 74             | 73.0                  | 22.8 | 10    | 20                            | 836.10         | 854.50       | 18.40        | 22                     | 22             | 22                            | 1.021  | #DIV/0!   | VALID       | VALID       |
| 2.4                         | 1.9                                   | 0.000          | 18.22        | 18.22        | 74            | 75             | 74.5                  | 23.6 | 10    | 20                            | 854.50         | 872.90       | 18.40        | 22                     | 23             | 22.25                         | 1.023  | #DIV/0!   | VALID       | VALID       |
| Average                     |                                       |                |              | 18.20        |               |                | 73.2                  |      |       |                               |                |              | 18.33        |                        |                | 22.2                          | 1.019  |           |             |             |
| 3.1                         | 2.4                                   | 0.000          | 14.21        | 14.21        | 75            | 75             | 75.0                  | 23.9 | 6     | 40                            | 872.90         | 887.20       | 14.30        | 23                     | 23             | 23                            | 1.037  | #DIV/0!   | VALID       | VALID       |
| 3.1                         | 2.4                                   | 0.000          | 14.24        | 14.24        | 75            | 75             | 75.0                  | 23.9 | 6     | 40                            | 887.20         | 901.60       | 14.40        | 23                     | 23             | 23                            | 1.042  | #DIV/0!   | VALID       | VALID       |
| 3.1                         | 2.4                                   | 0.000          | 14.21        | 14.21        | 75            | 75             | 75.0                  | 23.9 | 6     | 40                            | 901.60         | 915.70       | 14.10        | 23                     | 23             | 23                            | 1.022  | #DIV/0!   | VALID       | VALID       |
| Average                     |                                       |                |              | 14.22        |               |                | 75.0                  |      |       |                               |                |              | 14.27        |                        |                | 23.0                          | 1.033  |           |             |             |
| AVERAGE =                   |                                       |                |              |              |               |                |                       |      |       |                               |                |              |              |                        |                |                               | 1.025  |           |             |             |

Psychrometric Calculator:  
<http://www.hvac-calculator.net/index.php?v=2>



# S-Type Pitot Tube Calibration

Pitot ID: RWDI 8' #1

Date: 2/3/2025

Calibrated By: MB

$C_{p(Std)}$ : 0.998

Temperature (°F): 70.0

Static Pressure ("H<sub>2</sub>O): -0.28

Barometric Pressure ("Hg): 29.67

Average  $C_p$ : 0.851

| Fan Speed<br>(Hz) | Velocity<br>(FPM) | $\Delta P_{(Std)}$ | Side A           |            |                                      | Side B           |            |                                      |
|-------------------|-------------------|--------------------|------------------|------------|--------------------------------------|------------------|------------|--------------------------------------|
|                   |                   |                    | $\Delta P_{(s)}$ | $C_{p(s)}$ | Deviation<br>$C_{p(s)} - C_{p(avg)}$ | $\Delta P_{(s)}$ | $C_{p(s)}$ | Deviation<br>$C_{p(s)} - C_{p(avg)}$ |
| 20                | 1416              | 0.13               | 0.18             | 0.843      | -0.004                               | 0.19             | 0.820      | -0.026                               |
| 33                | 2533              | 0.40               | 0.55             | 0.851      | 0.015                                | 0.55             | 0.855      | 0.007                                |
| 45                | 3445              | 0.74               | 1.00             | 0.859      | 0.011                                | 1.00             | 0.861      | 0.015                                |
| 60                | 4566              | 1.30               | 1.85             | 0.837      | -0.011                               | 1.80             | 0.848      | 0.002                                |
|                   |                   |                    | 0.847            |            |                                      | Average 0.846    |            |                                      |

Difference between  $C_{p(A)}$  and  $C_{p(B)}$  = 0.0014

PASS

| Nozzle Diameter<br>(in.) | Fan Speed<br>(Hz) | Velocity<br>(FPM) | $\Delta P_{(Std)}$ | $\Delta P_{(s)}$ | $C_{p(s)}$ | Average $C_{p(s)}$ |
|--------------------------|-------------------|-------------------|--------------------|------------------|------------|--------------------|
| .125"                    | 52                | 4004              | 1.00               | 1.40             | 0.843      | 0.846              |
|                          | 60                | 4566              | 1.30               | 1.80             | 0.848      |                    |
| .187"                    | 33                | 2517              | 0.40               | 0.52             | 0.870      | 0.855              |
|                          | 45                | 3433              | 0.74               | 1.00             | 0.858      |                    |
|                          | 60                | 4566              | 1.30               | 1.85             | 0.837      |                    |
| .250"                    | 20                | 1387              | 0.12               | 0.17             | 0.838      | 0.857              |
|                          | 27                | 1982              | 0.25               | 0.33             | 0.867      |                    |
|                          | 33                | 2533              | 0.40               | 0.53             | 0.867      |                    |
| .375"                    | 20                | 1387              | 0.12               | 0.17             | 0.838      | 0.858              |
|                          | 27                | 2022              | 0.26               | 0.33             | 0.877      |                    |
| .500"                    | 16                | 939               | 0.06               | 0.08             | 0.855      | 0.847              |
|                          | 20                | 1387              | 0.12               | 0.17             | 0.838      |                    |



## S-Type Pitot Tube Calibration

Pitot ID: RWDI 9' #1

Date: 1/17/2025

Calibrated By: MB

$C_{p(Std)}$ : 0.998

Temperature (°F): 71.0

Static Pressure ("H<sub>2</sub>O): -0.475

Barometric Pressure ("Hg): 29.85

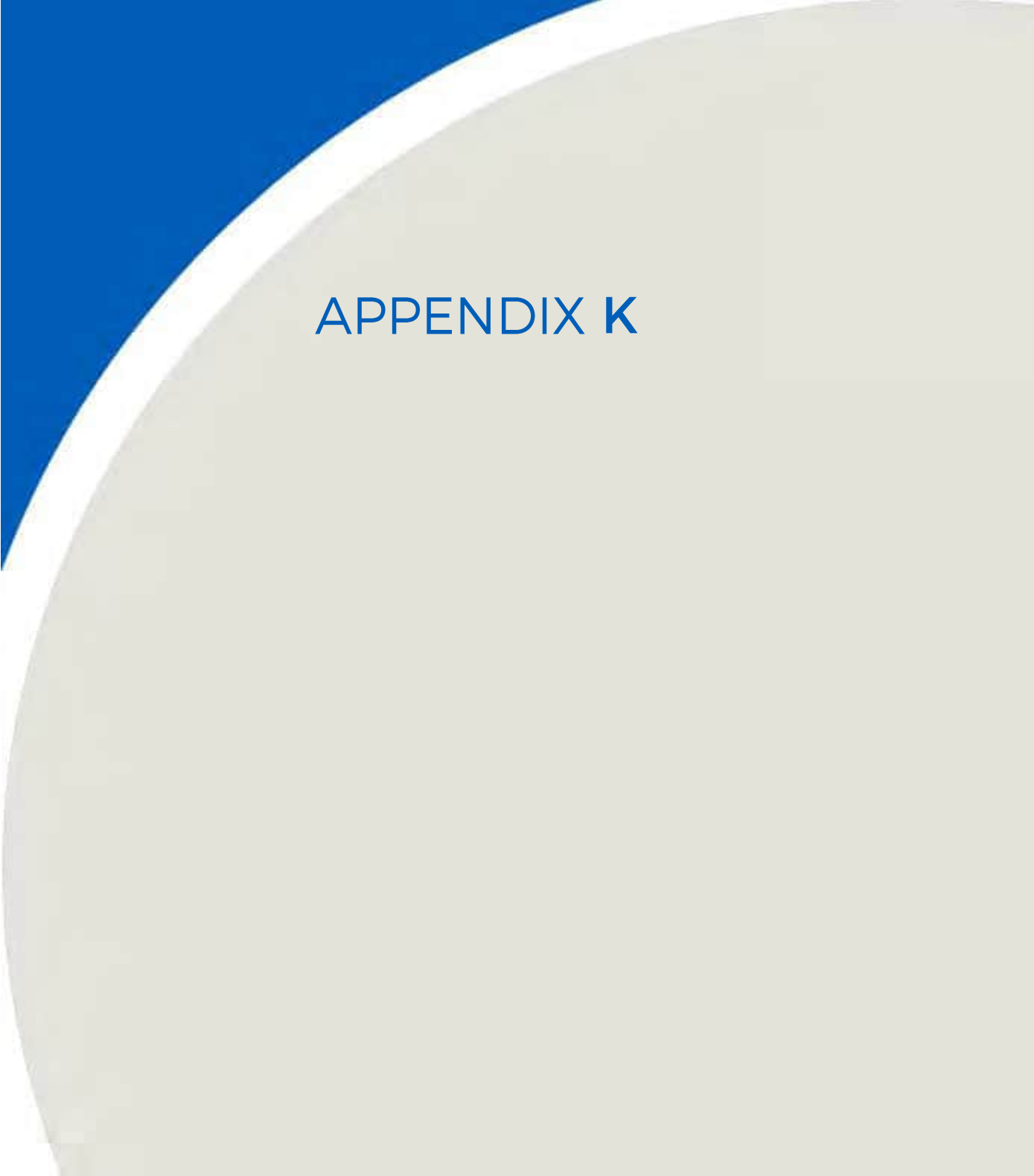
Average  $C_p$ : 0.836

| Fan Speed<br>(Hz) | Velocity<br>(FPM) | $\Delta P_{(Std)}$ | Side A           |            |                                      | Side B           |            |                                      |
|-------------------|-------------------|--------------------|------------------|------------|--------------------------------------|------------------|------------|--------------------------------------|
|                   |                   |                    | $\Delta P_{(s)}$ | $C_{p(s)}$ | Deviation<br>$C_{p(s)} - C_{p(avg)}$ | $\Delta P_{(s)}$ | $C_{p(s)}$ | Deviation<br>$C_{p(s)} - C_{p(avg)}$ |
| 20                | 1387              | 0.12               | 0.17             | 0.851      | 0.013                                | 0.18             | 0.826      | -0.009                               |
| 33                | 2501              | 0.39               | 0.55             | 0.840      | 0.004                                | 0.54             | 0.848      | 0.023                                |
| 45                | 3468              | 0.75               | 1.10             | 0.824      | -0.014                               | 1.05             | 0.843      | 0.008                                |
| 60                | 4566              | 1.30               | 1.85             | 0.837      | -0.001                               | 1.90             | 0.826      | -0.010                               |
|                   |                   |                    | Average          | 0.838      |                                      | 0.836            |            |                                      |

Difference between  $C_{p(A)}$  and  $C_{p(B)}$  = 0.0022

PASS

| Nozzle Diameter<br>(in.) | Fan Speed<br>(Hz) | Velocity<br>(FPM) | $\Delta P_{(Std)}$ | $\Delta P_{(s)}$ | $C_{p(s)}$ | Average $C_{p(s)}$ |
|--------------------------|-------------------|-------------------|--------------------|------------------|------------|--------------------|
| .125"                    | 52                | 4004              | 1.00               | 1.40             | 0.843      | 0.837              |
|                          | 60                | 4653              | 1.35               | 1.95             | 0.830      |                    |
| .187"                    | 33                | 2501              | 0.39               | 0.57             | 0.829      | 0.833              |
|                          | 45                | 3468              | 0.75               | 1.05             | 0.843      |                    |
|                          | 60                | 4566              | 1.30               | 1.90             | 0.826      |                    |
| .250"                    | 20                | 1471              | 0.14               | 0.19             | 0.841      | 0.834              |
|                          | 27                | 2081              | 0.27               | 0.39             | 0.830      |                    |
|                          | 33                | 2595              | 0.42               | 0.61             | 0.832      |                    |
| .375"                    | 20                | 1444              | 0.13               | 0.19             | 0.837      | 0.834              |
|                          | 27                | 2002              | 0.25               | 0.36             | 0.832      |                    |
| .500"                    | 16                | 1021              | 0.07               | 0.09             | 0.848      | 0.837              |
|                          | 20                | 1387              | 0.12               | 0.18             | 0.826      |                    |

A decorative graphic on the left side of the page, featuring a blue triangle at the top left, a white curved line, and a large light gray semi-circle.

## APPENDIX K



RWDI AIR Inc.  
Consulting Engineers

## Moisture Analysis Data Sheet

Project #: 2509873 Project: SMC St. Mary's ECA  
Date: 8-April-25 Test: T, M29  
Filter ID: QZ12521  
Sample Loc. Kiln Exhaust XAD Trap ID: N/A  
Train ID: M29

Pre-weights By: PB Post-weights By: SM

| Impinger # | Impinger Contents                                       | Final Weight (g) | Initial Weight (g) | Net Condensate (g) |
|------------|---------------------------------------------------------|------------------|--------------------|--------------------|
| 1          | 5% HNO <sub>3</sub> + 10% H <sub>2</sub> O <sub>2</sub> | 950.8            | 753.9              |                    |
| 2          | 5% HNO <sub>3</sub> + 10% H <sub>2</sub> O <sub>2</sub> | 826.3            | 732.3              |                    |
| 3          | Empty                                                   | 661.0            | 640.7              |                    |
| 4          | H <sub>2</sub> SO <sub>4</sub> /KMnO <sub>4</sub>       | 741.5            | 732.4              |                    |
| 5          | H <sub>2</sub> SO <sub>4</sub> /KMnO <sub>4</sub>       | 757.4            | 753.2              |                    |
| 6          | Silica                                                  | 964.3            | 875.5              |                    |
| 7          |                                                         |                  |                    |                    |
| 8          |                                                         |                  |                    |                    |
| TOTAL      |                                                         |                  |                    |                    |

### Balance QA Check:

|              | Actual (g) | Measured (g) | Error < 0.5 g | Initials |
|--------------|------------|--------------|---------------|----------|
| Pre-weights  | 500.0      | 500.3        | ✓             | SM       |
| Post-weights | 500.0      | 500.0        | ✓             | SM       |

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Nozzle Measurements:

1 0.20  
2 ↓  
3 ↓  
4 ↓

Avg

Sydney Morris  
Signature

8-April-25  
Date



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: PL

Job Name SMC St. Mary's ECA

Job Num: 2509873

Client: SMC

Plant: SMC St. Mary's

Source: Kiln Exhaust

Traverse: 1

Test No.: TIM29

Operators: PS

Traverse Dir.: Out-In

Start Time: 9:37

Finish Time: 12:53

Date: 8-Apr-2025

Stack D.: 2.4m

Pre-Pitot Check: ☒

Port length: 8"

(< 0.1" @ 3.0" for 15 sec)

Page: 1 of 2

Dn: 0.200

Cp: 0.838

Bws: 11

dH@: 1.820

Y: 1.007

Pbar: 28.72

Pstatic: -1.2

CO<sub>2</sub>: 12

O<sub>2</sub>: 12

Pitot ID: 9' #1

Console ID: I

| Pt. (#) | Time (min) | Velocity Press. ("H <sub>2</sub> O) | Orifice Press. ("H <sub>2</sub> O) | Gas Meter Reading          |                           | Stack Temp. (°F) | Probe Temp. (°F)<br>223 - 273 °F | Box Temp. (°F)<br>223 - 273 °F | Imp. Temp. (°F)<br>< 68 °F | Meter      |             | Vac. Press. ("Hg) | Comments |
|---------|------------|-------------------------------------|------------------------------------|----------------------------|---------------------------|------------------|----------------------------------|--------------------------------|----------------------------|------------|-------------|-------------------|----------|
|         |            |                                     |                                    | Desired (ft <sup>3</sup> ) | Actual (ft <sup>3</sup> ) |                  |                                  |                                |                            | Inlet (°F) | Outlet (°F) |                   |          |
| 1       | 0          | 2.30                                | 0                                  | 0                          | 0                         | 253              | 249                              | 256                            | 25                         | 73         |             | 0                 |          |
|         | 2.5        | 2.30                                | 2.20                               | 2.03                       | 1.86                      | 252              | 249                              | 252                            | 29                         | 31         |             | -3                |          |
|         | 5          | 2.30                                | 2.20                               | 3.85                       | 3.78                      | 253              | 248                              | 251                            | 29                         | 31         |             | -3                |          |
| 2       | 7.5        | 2.30                                | 2.20                               |                            | 5.69                      | 253              | 251                              | 250                            | 30                         | 32         |             | -3                |          |
|         | 10         | 2.30                                | 2.20                               |                            | 7.61                      | 255              | 250                              | 248                            | 31                         | 31         |             | -3                |          |
|         | 12.5       | 2.30                                | 2.20                               |                            | 9.53                      | 254              | 250                              | 249                            | 31                         | 32         |             | -3                |          |
| 3       | 15         | 2.30                                | 2.20                               |                            | 11.44                     | 255              | 247                              | 248                            | 32                         | 32         |             | -3                |          |
|         | 17.5       | 2.30                                | 2.30                               |                            | 13.40                     | 256              | 243                              | 248                            | 32                         | 32         |             | -3                |          |
|         | 20         | 2.30                                | 2.30                               |                            | 15.35                     | 256              | 245                              | 250                            | 32                         | 34         |             | -3                |          |
| 4       | 22.5       | 2.30                                | 2.30                               |                            | 17.30                     | 256              | 250                              | 251                            | 33                         | 34         |             | -3                |          |
|         | 25         | 2.30                                | 2.30                               |                            | 19.26                     | 255              | 252                              | 252                            | 33                         | 34         |             | -3                |          |
|         | 27.5       | 2.30                                | 2.30                               |                            | 21.22                     | 256              | 253                              | 250                            | 33                         | 35         |             | -3                |          |
| 5       | 30         | 2.30                                | 2.30                               |                            | 23.17                     | 255              | 250                              | 249                            | 33                         | 35         |             | -3                |          |
|         | 32.5       | 2.30                                | 2.40                               |                            | 25.13                     | 253              | 249                              | 249                            | 33                         | 35         |             | -3                |          |
|         | 35         | 2.30                                | 2.40                               |                            | 27.12                     | 252              | 249                              | 250                            | 33                         | 35         |             | -3                |          |
| 6       | 37.5       | 2.30                                | 2.40                               |                            | 29.12                     | 253              | 248                              | 250                            | 33                         | 35         |             | -3                |          |
|         | 40         | 2.30                                | 2.40                               |                            | 31.12                     | 254              | 247                              | 250                            | 33                         | 35         |             | -3                |          |
|         | 42.5       | 2.30                                | 2.40                               |                            | 33.11                     | 254              | 249                              | 248                            | 33                         | 36         |             | -3                |          |
| 7       | 45         | 2.30                                | 2.40                               |                            | 35.10                     | 255              | 250                              | 248                            | 33                         | 35         |             | -3                |          |
|         | 47.5       | 2.30                                | 2.40                               |                            | 37.09                     | 255              | 250                              | 247                            | 33                         | 35         |             | -3                |          |
|         | 50         | 2.30                                | 2.40                               |                            | 39.07                     | 255              | 250                              | 252                            | 33                         | 35         |             | -3                |          |
| 8       | 52.5       | 2.30                                | 2.40                               |                            | 41.04                     | 254              | 251                              | 251                            | 33                         | 35         |             | -3                |          |
|         | 55         | 2.30                                | 2.50                               |                            | 43.05                     | 253              | 249                              | 250                            | 33                         | 35         |             | -3                |          |
|         | 57.5       | 2.30                                | 2.50                               |                            | 45.07                     | 251              | 250                              | 251                            | 33                         | 36         |             | -3                |          |
| 9       | 60         | 2.30                                | 2.50                               |                            | 47.11                     | 251              | 250                              | 251                            | 33                         | 35         |             | -3                |          |
|         | 62.5       | 2.30                                | 2.50                               |                            | 49.12                     | 252              | 251                              | 251                            | 33                         | 35         |             | -3                |          |
|         | 65         | 2.30                                | 2.32                               |                            | 51.13                     | 252              | 252                              | 251                            | 33                         | 35         |             | -3                |          |
| 10      | 67.5       | 2.30                                | 2.50                               |                            | 53.14                     | 251              | 250                              | 252                            | 33                         | 35         |             | -3                |          |
|         | 70         | 2.30                                | 2.50                               |                            | 55.16                     | 252              | 248                              | 248                            | 33                         | 35         |             | -3                |          |
|         | 72.5       | 2.30                                | 2.50                               |                            | 57.17                     | 251              | 247                              | 249                            | 33                         | 35         |             | -3                |          |
| 11      | 75         | 2.30                                | 2.50                               |                            | 59.18                     | 252              | 246                              | 250                            | 33                         | 35         |             | -3                |          |
|         | 77.5       | 2.30                                | 2.50                               |                            | 61.18                     | 251              | 248                              | 250                            | 33                         | 35         |             | -3                |          |
|         | 80         | 2.30                                | 2.50                               |                            | 63.18                     | 251              | 248                              | 247                            | 33                         | 36         |             | -3                |          |
| 12      | 82.5       | 2.30                                | 2.50                               |                            | 65.17                     | 250              | 250                              | 250                            | 33                         | 36         |             | -3                |          |
|         | 85         | 2.30                                | 2.50                               |                            | 67.17                     | 250              | 252                              | 250                            | 33                         | 36         |             | -3                |          |
|         | 87.5       | 2.30                                | 2.50                               |                            | 69.17                     | 253              | 251                              | 250                            | 33                         | 36         |             | -3                |          |
|         | 90         | 2.30                                | 2.50                               |                            | 71.20                     | 252              | 250                              | 251                            | 33                         | 36         |             | -3                |          |

Pretest Leak Check Rate (cfm) 0.02 at -10 vacuum ("Hg)

Posttest Leak Check Rate (cfm) 0.02 at -10 vacuum ("Hg)

Leak Vol Start 0

Leak Vol End 0

Leak Vol. End 0.02

Leak Vol. End 0.02

Post-Pitot Check: ☒ (< 0.1" @ 3.0" for 15 sec)



## — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: RL

Job Name SMC St. Mary's ECA

Job Numb 2509873

Client: SMC

Dn: 0.200 Cp: 0.833

Plant: SMC St. Mary's

Source: Kiln Exhaust

Traverse: 2

Bws: H

Test No.: T1 M209

Operators: PA

Traverse Dir.: 000 in

dH@: 1.820

Y: 1.002

Start Time: 9:37

Finish Time: 12:53

Date: 8 - Apr - 2025

Pbar: 28.72

Stack D.: 2.4m

Pre-Pitot Check: ☒

Port length: 9'

Pstatic: -1.2

Stack D.: 2.4m

Pre-Pitot Check: ☒

Port length: 9'

CO<sub>2</sub>: 12O<sub>2</sub>: 12

Pitot ID: 9'

Page: 2 of 2

Console ID: I

| Pt. (#) | Time (min) | Velocity Press. ("H <sub>2</sub> O) | Orifice Press. ("H <sub>2</sub> O) | Gas Meter Reading          |                           | Stack Temp. (°F) | Probe Temp. (°F) 223 - 273 °F | Box Temp. (°F) 223 - 273 °F | Imp. Temp. (°F) < 68 °F | Meter      |             | Vac. Press. ("Hg) | Comments         |
|---------|------------|-------------------------------------|------------------------------------|----------------------------|---------------------------|------------------|-------------------------------|-----------------------------|-------------------------|------------|-------------|-------------------|------------------|
|         |            |                                     |                                    | Desired (ft <sup>3</sup> ) | Actual (ft <sup>3</sup> ) |                  |                               |                             |                         | Inlet (°F) | Outlet (°F) |                   |                  |
| 1       | 0          | 2.30                                | 0                                  | -                          | 71.20                     | 269              | 251                           | 251                         | 34                      | 34         | 34          | 0                 | Returned @ 11:23 |
|         | 2.5        | 1.90                                | 2.20                               | 73.22                      | 77.10                     | 268              | 253                           | 251                         | 36                      | 35         | 35          | -1                |                  |
|         | 5          | 1.20                                | 1.70                               | 74.83                      | 76.84                     | 270              | 250                           | 252                         | 38                      | 38         | 38          | -2                |                  |
| 2       | 7.5        | 1.20                                | 1.70                               | 76.57                      | 76.47                     | 268              | 255                           | 253                         | 39                      | 35         | 35          | -2                |                  |
|         | 10         | 1.70                                | 1.70                               | 78.20                      | 78.10                     | 268              | 254                           | 247                         | 41                      | 35         | 35          | -2                |                  |
|         | 12.5       | 1.70                                | 1.70                               | 79.83                      | 79.73                     | 267              | 250                           | 249                         | 42                      | 35         | 35          | -2                |                  |
| 3       | 15         | 1.70                                | 1.80                               | 81.46                      | 81.38                     | 270              | 251                           | 231                         | 44                      | 35         | 35          | -2                |                  |
|         | 17.5       | 1.70                                | 1.80                               | 83.11                      | 82.01                     | 268              | 252                           | 232                         | 45                      | 36         | 36          | -2                |                  |
|         | 20         | 1.70                                | 1.80                               | 84.74                      | 84.70                     | 269              | 252                           | 225                         | 42                      | 36         | 36          | -2                |                  |
| 4       | 22.5       | 1.70                                | 1.80                               | 86.37                      | 86.36                     | 268              | 251                           | 226                         | 40                      | 32         | 32          | -2                |                  |
|         | 25         | 1.70                                | 1.80                               | 88.00                      | 88.02                     | 266              | 250                           | 228                         | 41                      | 32         | 32          | -2                |                  |
|         | 27.5       | 1.70                                | 1.80                               | 89.62                      | 89.80                     | 270              | 249                           | 228                         | 49                      | 32         | 32          | -2                |                  |
| 5       | 30         | 1.70                                | 1.80                               | 91.25                      | 91.34                     | 267              | 245                           | 232                         | 49                      | 32         | 32          | -2                |                  |
|         | 32.5       | 1.70                                | 1.80                               | 92.88                      | 92.27                     | 269              | 250                           | 232                         | 50                      | 38         | 38          | -2                |                  |
|         | 35         | 1.70                                | 1.80                               | 94.51                      | 95.00                     | 268              | 252                           | 232                         | 50                      | 38         | 38          | -2                |                  |
| 6       | 37.5       | 1.70                                | 1.80                               | 96.14                      | 96.74                     | 269              | 250                           | 228                         | 50                      | 38         | 38          | -2                |                  |
|         | 40         | 1.70                                | 1.80                               | 97.77                      | 98.47                     | 268              | 248                           | 228                         | 50                      | 38         | 38          | -2                |                  |
|         | 42.5       | 1.70                                | 1.80                               | 99.40                      | 100.20                    | 265              | 253                           | 231                         | 50                      | 38         | 38          | -2                |                  |
| 7       | 45         | 1.70                                | 1.80                               | 101.03                     | 101.92                    | 268              | 247                           | 235                         | 50                      | 38         | 38          | -2                |                  |
|         | 47.5       | 1.80                                | 1.80                               | 103.66                     | 103.84                    | 271              | 253                           | 237                         | 53                      | 39         | 39          | -2                |                  |
|         | 50         | 1.80                                | 1.80                               | 105.29                     | 105.36                    | 271              | 244                           | 237                         | 54                      | 39         | 39          | -2                |                  |
| 8       | 52.5       | 1.80                                | 1.80                               | 106.92                     | 107.09                    | 271              | 254                           | 236                         | 55                      | 39         | 39          | -2                |                  |
|         | 55         | 1.80                                | 1.80                               | 108.55                     | 108.81                    | 270              | 255                           | 235                         | 58                      | 40         | 40          | -2                |                  |
|         | 57.5       | 1.80                                | 1.80                               | 110.18                     | 110.43                    | 271              | 244                           | 237                         | 58                      | 40         | 40          | -2                |                  |
| 9       | 60         | 1.80                                | 2.00                               | 112.81                     | 112.31                    | 268              | 255                           | 237                         | 58                      | 40         | 40          | -2                |                  |
|         | 62.5       | 1.80                                | 2.00                               | 114.44                     | 114.70                    | 269              | 250                           | 237                         | 62                      | 40         | 40          | -2                |                  |
|         | 65         | 1.80                                | 2.00                               | 116.07                     | 115.88                    | 266              | 253                           | 232                         | 67                      | 40         | 40          | -2                |                  |
| 10      | 67.5       | 1.80                                | 2.00                               | 117.70                     | 117.67                    | 270              | 252                           | 244                         | 68                      | 40         | 40          | -2                |                  |
|         | 70         | 1.80                                | 2.00                               | 119.33                     | 119.46                    | 270              | 247                           | 242                         | 66                      | 40         | 40          | -2                |                  |
|         | 72.5       | 1.80                                | 2.00                               | 120.96                     | 121.30                    | 268              | 253                           | 237                         | 67                      | 40         | 40          | -2                |                  |
| 11      | 75         | 1.80                                | 2.00                               | 122.59                     | 123.02                    | 271              | 252                           | 238                         | 68                      | 40         | 40          | -2                |                  |
|         | 77.5       | 1.80                                | 2.00                               | 124.22                     | 124.81                    | 271              | 250                           | 239                         | 68                      | 40         | 40          | -2                |                  |
|         | 80         | 1.80                                | 2.00                               | 125.85                     | 126.59                    | 273              | 256                           | 239                         | 68                      | 40         | 40          | -2                |                  |
| 12      | 82.5       | 1.80                                | 2.00                               | 127.48                     | 128.32                    | 272              | 252                           | 244                         | 68                      | 40         | 40          | -2                |                  |
|         | 85         | 1.80                                | 2.00                               | 129.11                     | 130.18                    | 270              | 251                           | 247                         | 68                      | 40         | 40          | -2                |                  |
|         | 87.5       | 1.80                                | 2.00                               | 130.74                     | 131.97                    | 269              | 252                           | 247                         | 68                      | 40         | 40          | -2                |                  |
|         | 90         | 1.80                                | 2.00                               | 132.37                     | 133.70                    | 270              | 249                           | 237                         | 68                      | 40         | 40          | -2                | Stopped @ 12:54  |

Pretest Leak Check Rate (cfm) 66.02 at 10 vacuum ("Hg)  
Posttest Leak Check Rate (cfm) 40.02 at 10 vacuum ("Hg)Leak Vol Start 0.00  
Leak Vol Start 135.30Leak Vol. End 50.02  
Leak Vol. End 185.85Post-Pitot Check: ☒ (< 0.1" @ 3.0" for 15 sec)



RWDI AIR Inc.  
Consulting Engineers

## Moisture Analysis Data Sheet

Project #: 2509873 Project: SMC St. Mary's ECA  
Date: 8-April-2025 Test: T2M29  
Filter ID: Q272567  
Sample Loc. Kiln Exhaust XAD Trap ID: N/A  
Train ID: M29

Pre-weights By: SM Post-weights By: SM

| Impinger # | Impinger Contents                                      | Final Weight (g) | Initial Weight (g) | Net Condensate (g) |
|------------|--------------------------------------------------------|------------------|--------------------|--------------------|
| 1          | 5%HNO <sub>3</sub> + 10% H <sub>2</sub> O <sub>2</sub> | 925.3            | 754.6              |                    |
| 2          | 5%HNO <sub>3</sub> + 10% H <sub>2</sub> O <sub>2</sub> | 828.2            | 746.1              |                    |
| 3          | Empty                                                  | 662.8            | 637.9              |                    |
| 4          | H <sub>2</sub> SO <sub>4</sub> /KMnO <sub>4</sub>      | 755.5            | 739.1              |                    |
| 5          | H <sub>2</sub> SO <sub>4</sub> /KMnO <sub>4</sub>      | 763.1            | 757.6              |                    |
| 6          | Silica                                                 | 896.5            | 864.4              |                    |
| 7          |                                                        |                  |                    |                    |
| 8          |                                                        |                  |                    |                    |
| TOTAL      |                                                        |                  |                    |                    |

### Balance QA Check:

|              | Actual (g) | Measured (g) | Error < 0.5 g | Initials |
|--------------|------------|--------------|---------------|----------|
| Pre-weights  | 500.0      | 500.0        | ✓             | SM       |
| Post-weights | 500.0      | 500.1        | ✓             | SM       |

Comments:

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\_\_\_\_\_  
\_\_\_\_\_

Nozzle Measurements:

1 0.20  
2 ↓  
3 ↓  
4 ↓

Avg

  
Signature

8-April-2025  
Date



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: R. [Signature]

Job Name SMC St. Mary's ECA

Job Numb 2509873

Client: SMC

Dn: 0.200

Cp: 0.833

Plant: SMC St. Mary's

Source: Kiln Exhaust

Traverse: 1

Bws: 11

Test No.: T2 M29

Operators: PB

Traverse Dir.: out-in

dH@: 1.820

Y: 1.007

Start Time: 14:28

Finish Time: 10:17 (9-Apr)

Date: 8-Apr-2025

Pbar: 28.72

Pstatic: -1.2

Stack D.: 2.4m

Pre-Pitot Check: ☒

Port length 8"

CO<sub>2</sub>: 12

O<sub>2</sub>: 12

( $< 0.1''$  @  $3.0''$  for 15 sec)

Page: 2 of 2

Pitot ID 9' #1

Console ID T

| Pt. (#) | Time (min) | Velocity Press. ("H <sub>2</sub> O) | Orifice Press. ("H <sub>2</sub> O) | Gas Meter Reading          |                           | Stack Temp. (°F) | Probe Temp. (°F)<br>223 - 273 °F | Box Temp. (°F)<br>223 - 273 °F | Imp. Temp. (°F)<br>< 68 °F | Meter      |             | Vac. Press. ("Hg) | Comments                        |
|---------|------------|-------------------------------------|------------------------------------|----------------------------|---------------------------|------------------|----------------------------------|--------------------------------|----------------------------|------------|-------------|-------------------|---------------------------------|
|         |            |                                     |                                    | Desired (ft <sup>3</sup> ) | Actual (ft <sup>3</sup> ) |                  |                                  |                                |                            | Inlet (°F) | Outlet (°F) |                   |                                 |
| 1       | 0          | 2.00                                | 0                                  | -                          | 0                         | 315              | 250                              | 242                            | 46                         | 41         |             | 0                 | RAW MILL OFF                    |
|         | 2.5        | 2.00                                | 1.80                               | 1.07                       | 1.69                      | 316              | 252                              | 239                            | 47                         | 40         |             | -3                | Starts @ 14:28                  |
|         | 5          | 2.00                                | 2.00                               | 3.66                       | 3.49                      | 318              | 253                              | 238                            | 48                         | 40         |             | -3                |                                 |
| 2       | 7.5        | 2.00                                | 2.10                               | 5.46                       | 5.33                      | 318              | 252                              | 239                            | 49                         | 41         |             | -3                |                                 |
|         | 10         | 1.90                                | 2.10                               | 7.25                       | 7.17                      | 319              | 252                              | 239                            | 52                         | 40         |             | -3                |                                 |
|         | 12.5       | 1.90                                | 2.10                               | 9.09                       | 9.05                      | 319              | 250                              | 238                            | 55                         | 41         |             | -3                |                                 |
| 3       | 15         | 1.90                                | 2.10                               | 10.97                      | 10.83                     | 320              | 250                              | 238                            | 58                         | 41         |             | -3                |                                 |
|         | 17.5       | 1.90                                | 2.10                               | 12.76                      | 12.64                     | 321              | 254                              | 240                            | 61                         | 41         |             | -3                |                                 |
|         | 20         | 1.90                                | 2.10                               | 14.56                      | 14.45                     | 322              | 250                              | 240                            | 64                         | 42         |             | -3                | - 12:46: RAW MILL OFF           |
| 4       | 22.5       | 1.90                                | 2.10                               | 16.38                      | 16.26                     | 323              | 254                              | 241                            | 66                         | 42         |             | -3                | ON 8-APR-2025                   |
|         | 25         | 1.90                                | 2.10                               | 18.19                      | 18.05                     | 323              | 254                              | 246                            | 70                         | 42         |             | -3                |                                 |
|         | 27.5       | 1.90                                | 2.10                               | 19.98                      | 19.85                     | 325              | 256                              | 247                            | 74                         | 42         |             | -3                | - RAW MILL ON                   |
| 5       | 30         | 1.90                                | 2.10                               | 21.79                      | 21.65                     | 325              | 250                              | 249                            | 74                         | 44         |             | -3                | ON 9-APR-2025                   |
|         | 32.5       | 1.90                                | 2.10                               | 23.59                      | 23.45                     | 326              | 250                              | 249                            | 81                         | 44         |             | -3                |                                 |
|         | 35         | 1.90                                | 2.10                               | 25.40                      | 25.25                     | 327              | 246                              | 251                            | 78                         | 45         |             | -3                |                                 |
| 6       | 37.5       | 1.90                                | 2.10                               | 27.25                      | 27.12                     | 327              | 252                              | 248                            | 79                         | 45         |             | -3                |                                 |
|         | 40         | 1.90                                | 2.10                               | 29.07                      | 28.92                     | 328              | 254                              | 251                            | 80                         | 45         |             | -3                |                                 |
|         | 42.5       | 1.90                                | 2.10                               | 30.92                      | 30.80                     | 328              | 246                              | 248                            | 78                         | 46         |             | -3                |                                 |
| 7       | 45         | 1.90                                | 2.10                               | 32.75                      | 32.66                     | 328              | 246                              | 248                            | 73                         | 47         |             | -3                |                                 |
|         | 47.5       | 1.90                                | 2.10                               | 34.60                      | 34.51                     | 329              | 244                              | 240                            | 68                         | 47         |             | -3                |                                 |
|         | 50         | 1.90                                | 2.10                               | 36.45                      | 36.36                     | 329              | 247                              | 239                            | 65                         | 47         |             | -3                |                                 |
| 8       | 52.5       | 1.90                                | 2.10                               | 38.30                      | 38.21                     | 330              | 254                              | 239                            | 62                         | 46         |             | -3                |                                 |
|         | 55         | 1.90                                | 2.10                               | 40.16                      | 40.05                     | 330              | 254                              | 238                            | 57                         | 46         |             | -3                |                                 |
|         | 57.5       | 1.90                                | 2.10                               | 42.00                      | 41.90                     | 330              | 250                              | 241                            | 54                         | 46         |             | -3                |                                 |
| 9       | 60         | 1.90                                | 2.10                               | 43.86                      | 43.73                     | 330              | 251                              | 239                            | 53                         | 46         |             | -3                | 15:07 → Fuel off                |
|         | 62.5       | 1.90                                | 2.10                               | 45.69                      | 45.50                     | 260              | 249                              | 248                            | 35                         | 48         |             | -3                | Paused @ 15:30                  |
|         | 65         | 1.90                                | 2.10                               | 47.57                      | 47.40                     | 260              | 250                              | 250                            | 35                         | 47         |             | -3                | → 45.319 GPM (Fe <sup>3</sup> ) |
| 10      | 67.5       | 1.90                                | 2.10                               | 49.47                      | 49.26                     | 260              | 254                              | 251                            | 35                         | 47         |             | -3                | Resumed @ 8:07                  |
|         | 70         | 1.90                                | 2.10                               | 51.33                      | 51.11                     | 262              | 246                              | 257                            | 36                         | 46         |             | -3                | to 9-APR-2025                   |
|         | 72.5       | 1.90                                | 2.10                               | 52.98                      | 52.96                     | 262              | 252                              | 251                            | 37                         | 46         |             | -3                |                                 |
| 11      | 75         | 1.90                                | 2.10                               | 54.83                      | 54.81                     | 261              | 250                              | 257                            | 39                         | 46         |             | -3                |                                 |
|         | 77.5       | 1.90                                | 2.10                               | 56.68                      | 56.60                     | 261              | 253                              | 252                            | 41                         | 46         |             | -24               |                                 |
|         | 80         | 1.90                                | 2.10                               | 58.47                      | 58.46                     | 262              | 250                              | 207                            | 43                         | 46         |             | -24               |                                 |
| 12      | 82.5       | 1.90                                | 2.10                               | 60.33                      | 60.33                     | 262              | 253                              | 251                            | 44                         | 47         |             | -24               |                                 |
|         | 85         | 1.90                                | 2.10                               | 62.21                      | 62.21                     | 262              | 248                              | 252                            | 45                         | 47         |             | -24               |                                 |
|         | 87.5       | 1.90                                | 2.10                               | 64.09                      | 64.09                     | 260              | 252                              | 207                            | 46                         | 47         |             | -24               |                                 |
|         | 90         | 1.90                                | 2.10                               | 65.96                      | 65.96                     | 261              | 250                              | 252                            | 46                         | 48         |             | -24               | Paused @ 8:35                   |

Pretest Leak Check Rate (cfm) 0.02 at 10 vacuum ("Hg)  
Posttest Leak Check Rate (cfm) - at - vacuum ("Hg)

Leak Vol Start 0  
Leak Vol End -

Leak Vol Start 0.15  
Leak Vol End -

Post-Pitot Check: ☒ ( $< 0.1''$  @  $3.0''$  for 15 sec)



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature:                     

Job Name SMC St. Mary's ECA

Job Num 2509873

Client: SMC

Plant: SMC St. Mary's

Source: Kiln Exhaust

Traverse: 2

Test No.: T2 M29

Operators: PB

Traverse Dir.: m-h

Start Time: 14:28

Finish Time: 10:17

Date: 9-Apr-2025

Stack D.: 2.4m

Pre-Pitot Check: ☒

Port length 8"

(&lt; 0.1" @ 3.0" for 15 sec)

Page: 2 of 2

Dn: 0.200

Cp: 0.833

Bws: 11

dH@: 1.820

Y: 1.007

Pbar: 28.72

Pstatic: -1.2

CO<sub>2</sub>: 12O<sub>2</sub>: 12

Pitot ID 9' H1

Console ID 2

| Pt.<br>(#) | Time<br>(min) | Velocity<br>Press.<br>("H <sub>2</sub> O) | Orifice<br>Press.<br>("H <sub>2</sub> O) | Gas Meter Reading             |                              | Stack<br>Temp.<br>("F) | Probe<br>Temp. ("F)<br>223 - 273 °F | Box<br>Temp. ("F)<br>223 - 273 °F | Imp.<br>Temp. ("F)<br>< 68 °F | Meter         |                | Vac.<br>Press.<br>("Hg) | Comments        |
|------------|---------------|-------------------------------------------|------------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------|-----------------------------------|-------------------------------|---------------|----------------|-------------------------|-----------------|
|            |               |                                           |                                          | Desired<br>(ft <sup>3</sup> ) | Actual<br>(ft <sup>3</sup> ) |                        |                                     |                                   |                               | Inlet<br>("F) | Outlet<br>("F) |                         |                 |
| 1          | 0             | 1.90                                      | 2.10                                     | -                             | 65.46                        | 260                    | 250                                 | 251                               | 41                            | 49            |                | -4                      | Started @ 8:46  |
|            | 2.5           | 1.90                                      | 2.10                                     | 67.79                         | 67.79                        | 263                    | 253                                 | 252                               | 44                            | 48            |                | -4                      |                 |
|            | 5             | 1.90                                      | 2.10                                     | 69.62                         | 69.62                        | 261                    | 248                                 | 252                               | 45                            | 48            |                | -4                      |                 |
| 2          | 7.5           | 1.90                                      | 2.10                                     | 71.44                         | 71.44                        | 261                    | 257                                 | 252                               | 47                            | 49            |                | -4                      |                 |
|            | 10            | 1.90                                      | 2.10                                     | 73.27                         | 73.27                        | 262                    | 241                                 | 250                               | 49                            | 49            |                | -4                      |                 |
|            | 12.5          | 1.90                                      | 2.10                                     | 75.10                         | 75.10                        | 262                    | 255                                 | 252                               | 50                            | 49            |                | -4                      |                 |
| 3          | 15            | 1.90                                      | 2.10                                     | 76.93                         | 76.93                        | 261                    | 246                                 | 252                               | 51                            | 50            |                | -4                      |                 |
|            | 17.5          | 1.90                                      | 2.10                                     | 78.75                         | 78.75                        | 262                    | 255                                 | 251                               | 51                            | 50            |                | -4                      |                 |
|            | 20            | 1.90                                      | 2.10                                     | 80.57                         | 80.57                        | 261                    | 246                                 | 252                               | 52                            | 50            |                | -4                      |                 |
| 4          | 22.5          | 1.90                                      | 2.10                                     | 82.39                         | 82.39                        | 260                    | 256                                 | 251                               | 52                            | 51            |                | -4                      |                 |
|            | 25            | 1.90                                      | 2.10                                     | 84.22                         | 84.22                        | 261                    | 247                                 | 250                               | 51                            | 52            |                | -4                      |                 |
|            | 27.5          | 1.90                                      | 2.10                                     | 86.08                         | 86.11                        | 263                    | 256                                 | 251                               | 51                            | 52            |                | -4                      |                 |
| 5          | 30            | 1.90                                      | 2.10                                     | 87.94                         | 87.95                        | 262                    | 251                                 | 252                               | 50                            | 52            |                | -4                      |                 |
|            | 32.5          | 1.90                                      | 2.10                                     | 89.79                         | 89.80                        | 263                    | 253                                 | 251                               | 50                            | 53            |                | -4                      |                 |
|            | 35            | 1.90                                      | 2.10                                     | 91.64                         | 91.65                        | 265                    | 249                                 | 253                               | 50                            | 53            |                | -4                      |                 |
| 6          | 37.5          | 1.90                                      | 2.10                                     | 93.49                         | 93.50                        | 265                    | 250                                 | 252                               | 50                            | 53            |                | -4                      |                 |
|            | 40            | 1.90                                      | 2.10                                     | 95.34                         | 95.34                        | 265                    | 254                                 | 253                               | 50                            | 53            |                | -4                      |                 |
|            | 42.5          | 1.90                                      | 2.10                                     | 97.18                         | 97.19                        | 266                    | 247                                 | 251                               | 50                            | 54            |                | -4                      |                 |
| 7          | 45            | 1.90                                      | 2.10                                     | 99.04                         | 99.03                        | 265                    | 254                                 | 252                               | 50                            | 54            |                | -4                      |                 |
|            | 47.5          | 1.90                                      | 2.10                                     | 100.87                        | 100.87                       | 265                    | 246                                 | 252                               | 51                            | 54            |                | -4                      |                 |
|            | 50            | 1.90                                      | 2.10                                     | 102.71                        | 102.70                       | 267                    | 256                                 | 251                               | 51                            | 55            |                | -4                      |                 |
| 8          | 52.5          | 1.90                                      | 2.10                                     | 104.56                        | 104.52                       | 267                    | 249                                 | 251                               | 51                            | 55            |                | -4                      |                 |
|            | 55            | 1.90                                      | 2.10                                     | 106.36                        | 106.36                       | 263                    | 257                                 | 252                               | 51                            | 56            |                | -4                      |                 |
|            | 57.5          | 1.90                                      | 2.10                                     | 108.20                        | 108.19                       | 265                    | 244                                 | 252                               | 52                            | 56            |                | -4                      |                 |
| 9          | 60            | 1.90                                      | 2.10                                     | 110.02                        | 110.02                       | 263                    | 257                                 | 251                               | 52                            | 56            |                | -4                      |                 |
|            | 62.5          | 1.90                                      | 2.10                                     | 111.87                        | 111.85                       | 264                    | 248                                 | 252                               | 53                            | 56            |                | -4                      |                 |
|            | 65            | 1.90                                      | 2.10                                     | 113.70                        | 113.68                       | 265                    | 253                                 | 251                               | 54                            | 57            |                | -4                      |                 |
| 10         | 67.5          | 1.90                                      | 2.10                                     | 115.54                        | 115.52                       | 263                    | 246                                 | 249                               | 54                            | 57            |                | -4                      |                 |
|            | 70            | 1.90                                      | 2.10                                     | 117.36                        | 117.34                       | 265                    | 253                                 | 250                               | 53                            | 58            |                | -4                      |                 |
|            | 72.5          | 1.90                                      | 2.10                                     | 119.19                        | 119.19                       | 266                    | 246                                 | 251                               | 53                            | 58            |                | -4                      |                 |
| 11         | 75            | 1.90                                      | 2.10                                     | 121.02                        | 121.03                       | 268                    | 258                                 | 250                               | 53                            | 58            |                | -4                      |                 |
|            | 77.5          | 1.90                                      | 2.10                                     | 122.88                        | 122.87                       | 267                    | 252                                 | 252                               | 53                            | 58            |                | -4                      |                 |
|            | 80            | 1.90                                      | 2.10                                     | 124.72                        | 124.72                       | 268                    | 251                                 | 252                               | 54                            | 58            |                | -4                      |                 |
| 12         | 82.5          | 1.90                                      | 2.10                                     | 126.56                        | 126.56                       | 269                    | 253                                 | 252                               | 55                            | 58            |                | -4                      |                 |
|            | 85            | 1.90                                      | 2.10                                     | 128.41                        | 128.40                       | 269                    | 250                                 | 252                               | 56                            | 58            |                | -4                      |                 |
|            | 87.5          | 1.90                                      | 2.10                                     | 130.25                        | 130.28                       | 267                    | 252                                 | 252                               | 57                            | 58            |                | -4                      |                 |
|            | 90            | 1.90                                      | 2.10                                     | 132.09                        | 132.09                       | 266                    | 248                                 | 252                               | 58                            | 59            |                | -4                      | Stopped @ 10:17 |

Pretest Leak Check Rate (cfm) 0.01 at 0.10 vacuum ("Hg)Posttest Leak Check Rate (cfm) 0.01 at 0.10 vacuum ("Hg)Leak Vol Start 132.09Leak Vol End 132.15Leak Vol. End 132.15Post-Pitot Check: ☒ (< 0.1" @ 3.0" for 15 sec)



RWDI AIR Inc.  
Consulting Engineers

## Moisture Analysis Data Sheet

Project #: 2509873 Project: SMC St. Mary's ECA  
Date: 9-April-2025 Test: T<sub>3</sub> M29  
Filter ID: C221 2566  
Sample Loc. Kiln Exhaust XAD Trap ID: N/A  
Train ID: M29  
Pre-weights By: SM Post-weights By: SM

| Impinger # | Impinger Contents                                       | Final Weight (g) | Initial Weight (g) | Net Condensate (g) |
|------------|---------------------------------------------------------|------------------|--------------------|--------------------|
| 1          | 5% HNO <sub>3</sub> + 10% H <sub>2</sub> O <sub>2</sub> | 989.3            | 759.2              |                    |
| 2          | 5% HNO <sub>3</sub> + 10% H <sub>2</sub> O <sub>2</sub> | 867.5            | 742.5              |                    |
| 3          | Empty                                                   | 671.1            | 660.9              |                    |
| 4          | H <sub>2</sub> SO <sub>4</sub> /KMnO <sub>4</sub>       | 755.1            | 746.9              |                    |
| 5          | H <sub>2</sub> SO <sub>4</sub> /KMnO <sub>4</sub>       | 768.1            | 765.3              |                    |
| 6          | Silica                                                  | 892.6            | 856.2              |                    |
| 7          |                                                         |                  |                    |                    |
| 8          |                                                         |                  |                    |                    |
| TOTAL      |                                                         |                  |                    |                    |

### Balance QA Check:

|              | Actual (g) | Measured (g) | Error < 0.5 g | Initials |
|--------------|------------|--------------|---------------|----------|
| Pre-weights  | 500.0      | 500.0        | ✓             | SM       |
| Post-weights | 500.0      | 500.1        | ✓             | SM       |

Comments:

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Nozzle Measurements:

1 0.20  
2  
3  
4

Avg

  
Signature

9-April-2025  
Date



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: *[Signature]*

Job Name SMC St. Mary's ECA

Job Numb 2509873

Client: SMC

Plant: SMC St. Mary's

Source: Kiln Exhaust

Operators: PBBws: 11dH@: 1.820Y: 1.007Test No.: T3 M201Operators: PBTraverse Dir.: out to inY: 1.007Pbar: 28.72Pstatic: -1.2Start Time: 11:42Finish Time: 14:52Date: 9-18-2025Pbar: 28.72Pstatic: -1.2

Stack D.: 2.4m

Pre-Pitot Check: ✓Port length: 8"CO<sub>2</sub>: 12.00O<sub>2</sub>: 13.50Pitot ID: 9' #1

(&lt; 0.1" @ 3.0" for 15 sec)

Page: 1 of 2Console ID: I

| Pt.<br>(#) | Time<br>(min) | Velocity<br>Press.<br>("H <sub>2</sub> O) | Orifice<br>Press.<br>("H <sub>2</sub> O) | Gas Meter Reading             |                              | Stack<br>Temp.<br>(°F) | Probe<br>Temp. (°F)<br>223 - 273 °F | Box<br>Temp. (°F)<br>223 - 273 °F | Imp.<br>Temp. (°F)<br>< 68 °F | Meter         |                | Vac.<br>Press.<br>("Hg) | Comments        |
|------------|---------------|-------------------------------------------|------------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------|-----------------------------------|-------------------------------|---------------|----------------|-------------------------|-----------------|
|            |               |                                           |                                          | Desired<br>(ft <sup>3</sup> ) | Actual<br>(ft <sup>3</sup> ) |                        |                                     |                                   |                               | Inlet<br>(°F) | Outlet<br>(°F) |                         |                 |
| 1          | 0             | 2.00                                      | 0                                        | —                             | 0                            | 268                    | 269                                 | 253                               | 46                            | 62            | —              | 0                       | Started @ 11:42 |
|            | 2.5           | 2.00                                      | 2.10                                     | 1.98                          | 1.87                         | 266                    | 251                                 | 252                               | 43                            | 60            | —              | -3                      |                 |
|            | 5             | 2.00                                      | 2.10                                     | 3.85                          | 3.80                         | 266                    | 248                                 | 252                               | 43                            | 60            | —              | -3                      |                 |
| 2          | 7.5           | 2.00                                      | 2.10                                     | 5.78                          | 5.75                         | 265                    | 253                                 | 252                               | 43                            | 60            | —              | -3                      |                 |
|            | 10            | 2.00                                      | 2.10                                     | 7.73                          | 7.72                         | 265                    | 253                                 | 250                               | 45                            | 61            | —              | -3                      |                 |
|            | 12.5          | 2.00                                      | 2.10                                     | 9.70                          | 9.60                         | 264                    | 254                                 | 252                               | 46                            | 61            | —              | -1                      |                 |
| 3          | 15            | 2.00                                      | 2.10                                     | 11.59                         | 11.55                        | 265                    | 255                                 | 252                               | 45                            | 61            | —              | -3                      |                 |
|            | 17.5          | 2.00                                      | 2.10                                     | 13.53                         | 13.46                        | 264                    | 259                                 | 252                               | 46                            | 62            | —              | -3                      |                 |
|            | 20            | 2.00                                      | 2.10                                     | 15.45                         | 15.44                        | 264                    | 256                                 | 250                               | 46                            | 62            | —              | -3                      |                 |
| 4          | 22.5          | 2.00                                      | 2.10                                     | 17.43                         | 17.41                        | 264                    | 250                                 | 251                               | 47                            | 63            | —              | -3                      |                 |
|            | 25            | 2.00                                      | 2.10                                     | 19.40                         | 19.38                        | 266                    | 249                                 | 250                               | 45                            | 64            | —              | -3                      |                 |
|            | 27.5          | 2.00                                      | 2.10                                     | 21.37                         | 21.34                        | 266                    | 252                                 | 250                               | 46                            | 64            | —              | -3                      |                 |
| 5          | 30            | 2.00                                      | 2.10                                     | 23.33                         | 23.30                        | 266                    | 249                                 | 251                               | 46                            | 64            | —              | -3                      |                 |
|            | 32.5          | 2.00                                      | 2.10                                     | 25.29                         | 25.26                        | 267                    | 257                                 | 252                               | 46                            | 65            | —              | -3                      |                 |
|            | 35            | 2.00                                      | 2.10                                     | 27.26                         | 27.22                        | 267                    | 242                                 | 251                               | 47                            | 65            | —              | -3                      |                 |
| 6          | 37.5          | 2.00                                      | 2.10                                     | 29.22                         | 29.16                        | 266                    | 257                                 | 251                               | 47                            | 65            | —              | -3                      |                 |
|            | 40            | 2.00                                      | 2.10                                     | 31.16                         | 31.11                        | 268                    | 242                                 | 251                               | 48                            | 66            | —              | -3                      |                 |
|            | 42.5          | 2.00                                      | 2.10                                     | 33.11                         | 33.04                        | 267                    | 259                                 | 252                               | 48                            | 66            | —              | -3                      |                 |
| 7          | 45            | 2.00                                      | 2.10                                     | 35.04                         | 34.97                        | 268                    | 242                                 | 251                               | 48                            | 67            | —              | -3                      |                 |
|            | 47.5          | 2.00                                      | 2.10                                     | 36.97                         | 36.90                        | 268                    | 256                                 | 251                               | 49                            | 68            | —              | -3                      |                 |
|            | 50            | 2.00                                      | 2.10                                     | 38.91                         | 38.83                        | 268                    | 246                                 | 251                               | 50                            | 68            | —              | -3                      |                 |
| 8          | 52.5          | 2.00                                      | 2.10                                     | 40.84                         | 40.76                        | 268                    | 258                                 | 250                               | 50                            | 69            | —              | -3                      |                 |
|            | 55            | 2.00                                      | 2.10                                     | 42.77                         | 42.69                        | 268                    | 246                                 | 252                               | 50                            | 70            | —              | -3                      |                 |
|            | 57.5          | 2.00                                      | 2.10                                     | 44.70                         | 44.61                        | 267                    | 258                                 | 250                               | 51                            | 70            | —              | -3                      |                 |
| 9          | 60            | 2.00                                      | 2.10                                     | 46.63                         | 46.56                        | 267                    | 239                                 | 249                               | 50                            | 71            | —              | -3                      |                 |
|            | 62.5          | 2.00                                      | 2.10                                     | 48.56                         | 48.50                        | 268                    | 250                                 | 250                               | 50                            | 71            | —              | -1                      |                 |
|            | 65            | 2.00                                      | 2.10                                     | 50.52                         | 50.44                        | 266                    | 251                                 | 250                               | 50                            | 72            | —              | -3                      |                 |
| 10         | 67.5          | 2.00                                      | 2.10                                     | 52.47                         | 52.38                        | 266                    | 253                                 | 253                               | 51                            | 72            | —              | -3                      |                 |
|            | 70            | 2.00                                      | 2.10                                     | 54.41                         | 54.34                        | 267                    | 247                                 | 252                               | 52                            | 71            | —              | -1                      |                 |
|            | 72.5          | 2.00                                      | 2.10                                     | 56.36                         | 56.29                        | 267                    | 258                                 | 252                               | 53                            | 72            | —              | -3                      |                 |
| 11         | 75            | 2.00                                      | 2.10                                     | 58.31                         | 58.25                        | 268                    | 241                                 | 251                               | 54                            | 72            | —              | -3                      |                 |
|            | 77.5          | 2.00                                      | 2.10                                     | 60.27                         | 60.20                        | 267                    | 256                                 | 250                               | 55                            | 72            | —              | -3                      |                 |
|            | 80            | 2.00                                      | 2.10                                     | 62.22                         | 62.14                        | 267                    | 242                                 | 251                               | 56                            | 72            | —              | -3                      |                 |
| 12         | 82.5          | 2.00                                      | 2.10                                     | 64.16                         | 64.09                        | 267                    | 256                                 | 250                               | 57                            | 73            | —              | -3                      |                 |
|            | 85            | 2.00                                      | 2.10                                     | 66.12                         | 66.03                        | 268                    | 246                                 | 251                               | 58                            | 73            | —              | -1                      |                 |
|            | 87.5          | 2.00                                      | 2.10                                     | 68.06                         | 67.97                        | 268                    | 258                                 | 250                               | 60                            | 73            | —              | -3                      |                 |
|            | 90            | 2.00                                      | 2.10                                     | 70.00                         | 69.95                        | 267                    | 244                                 | 254                               | 59                            | 74            | —              | -3                      | Paused @ 13:12  |

Pretest Leak Check Rate (cfm) 0.02 at -10 vacuum ("Hg)Posttest Leak Check Rate (cfm) — at — vacuum ("Hg)Leak Vol Start 0Leak Vol End —Leak Vol. End 0.04Leak Vol. End —Post-Pitot Check: ✓ (< 0.1" @ 3.0" for 15 sec)



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: Ph

Job Name SMC St. Mary's ECA

Job Numb 2509873

Client: SMC

Plant: SMC St. Mary's

Source: Kiln Exhaust

Traverse: 2

Bws: 11

Test No.: T3 men

Operators: PO

Traverse Dir.: out-in

dH@: 1.820

Y: 1.007

Start Time: 11:42

Finish Time: 14:53

Date: 9-Apr-2025

Pbar: 28.72

Stack D.: 2.4m

Pre-Pitot Check: ☒

Port length: 8"

Pstatic: -1.2

Stack D.: 2.4m

Pre-Pitot Check: ☒

Port length: 8"

CO<sub>2</sub>: 12O<sub>2</sub>: 13.50

Pitot ID: 9141

Console ID: I

Dn: 0.200

Cp: 0.833

Bws: 11

dH@: 1.820

Y: 1.007

Pbar: 28.72

Pstatic: -1.2

CO<sub>2</sub>: 12O<sub>2</sub>: 13.50

Pitot ID: 9141

Console ID: I

| Pt.<br>(#) | Time<br>(min) | Velocity<br>Press.<br>("H <sub>2</sub> O) | Orifice<br>Press.<br>("H <sub>2</sub> O) | Gas Meter Reading             |                              | Stack<br>Temp.<br>(°F) | Probe<br>Temp. (°F)<br>223 - 273 °F | Box<br>Temp. (°F)<br>223 - 273 °F | Imp.<br>Temp. (°F)<br>< 68 °F | Meter         |                | Vac.<br>Press.<br>("Hg) | Comments        |
|------------|---------------|-------------------------------------------|------------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------|-----------------------------------|-------------------------------|---------------|----------------|-------------------------|-----------------|
|            |               |                                           |                                          | Desired<br>(ft <sup>3</sup> ) | Actual<br>(ft <sup>3</sup> ) |                        |                                     |                                   |                               | Inlet<br>(°F) | Outlet<br>(°F) |                         |                 |
| 1          | 0             | 1.92                                      | 2.10                                     | —                             | 69.95                        | 249                    | 249                                 | 251                               | 51                            | 75            | —              | 0                       | Resumes @ 13:23 |
|            | 2.5           | 1.90                                      | 2.10                                     | 71.93                         | 71.94                        | 270                    | 251                                 | 251                               | 53                            | 73            | —              | -4                      |                 |
|            | 5             | 1.90                                      | 2.10                                     | 73.91                         | 73.92                        | 270                    | 250                                 | 250                               | 54                            | 72            | —              | -4                      |                 |
| 2          | 7.5           | 1.90                                      | 2.10                                     | 75.90                         | 75.90                        | 271                    | 252                                 | 251                               | 57                            | 72            | —              | -4                      |                 |
|            | 10            | 1.90                                      | 2.10                                     | 77.87                         | 77.88                        | 272                    | 243                                 | 251                               | 59                            | 71            | —              | -4                      |                 |
|            | 12.5          | 1.90                                      | 2.10                                     | 79.84                         | 79.86                        | 271                    | 256                                 | 251                               | 60                            | 70            | —              | -4                      |                 |
| 3          | 15            | 1.90                                      | 2.10                                     | 81.82                         | 81.80                        | 271                    | 245                                 | 252                               | 62                            | 70            | —              | -4                      |                 |
|            | 17.5          | 1.90                                      | 2.10                                     | 83.76                         | 83.73                        | 272                    | 254                                 | 251                               | 63                            | 70            | —              | -4                      |                 |
|            | 20            | 1.90                                      | 2.10                                     | 85.69                         | 85.69                        | 271                    | 246                                 | 250                               | 64                            | 70            | —              | -4                      |                 |
| 4          | 22.5          | 2.00                                      | 2.10                                     | 87.65                         | 87.65                        | 269                    | 247                                 | 250                               | 67                            | 71            | —              | -4                      |                 |
|            | 25            | 2.00                                      | 2.10                                     | 89.67                         | 89.61                        | 271                    | 249                                 | 250                               | 67                            | 71            | —              | -4                      |                 |
|            | 27.5          | 2.00                                      | 2.10                                     | 91.62                         | 91.58                        | 273                    | 253                                 | 249                               | 61                            | 71            | —              | -4                      |                 |
| 5          | 30            | 2.00                                      | 2.10                                     | 93.59                         | 93.53                        | 272                    | 250                                 | 252                               | 62                            | 71            | —              | -3                      |                 |
|            | 32.5          | 2.00                                      | 2.10                                     | 95.54                         | 95.48                        | 275                    | 247                                 | 249                               | 61                            | 70            | —              | -3                      |                 |
|            | 35            | 2.00                                      | 2.10                                     | 97.49                         | 97.44                        | 255                    | 253                                 | 251                               | 61                            | 70            | —              | -3                      |                 |
| 6          | 37.5          | 2.00                                      | 2.10                                     | 99.47                         | 99.38                        | 250                    | 247                                 | 251                               | 62                            | 70            | —              | -3                      |                 |
|            | 40            | 2.00                                      | 2.10                                     | 101.26                        | 101.27                       | 251                    | 250                                 | 250                               | 61                            | 70            | —              | -3                      |                 |
|            | 42.5          | 2.00                                      | 2.10                                     | 103.15                        | 103.09                       | 250                    | 250                                 | 251                               | 62                            | 69            | —              | -3                      |                 |
| 7          | 45            | 1.90                                      | 2.00                                     | 104.97                        | 104.97                       | 257                    | 251                                 | 250                               | 62                            | 69            | —              | -3                      |                 |
|            | 47.5          | 1.90                                      | 2.00                                     | 106.80                        | 106.79                       | 262                    | 251                                 | 251                               | 62                            | 69            | —              | -3                      |                 |
|            | 50            | 1.90                                      | 2.00                                     | 108.71                        | 108.65                       | 264                    | 250                                 | 251                               | 62                            | 69            | —              | -3                      |                 |
| 8          | 52.5          | 1.90                                      | 2.00                                     | 110.56                        | 110.50                       | 264                    | 253                                 | 251                               | 67                            | 69            | —              | -4                      |                 |
|            | 55            | 1.90                                      | 2.00                                     | 112.41                        | 112.38                       | 266                    | 248                                 | 252                               | 65                            | 68            | —              | -4                      |                 |
|            | 57.5          | 1.90                                      | 2.00                                     | 114.29                        | 114.26                       | 271                    | 252                                 | 250                               | 65                            | 68            | —              | -4                      |                 |
| 9          | 60            | 2.00                                      | 2.00                                     | 116.16                        | 116.16                       | 273                    | 251                                 | 253                               | 67                            | 68            | —              | -4                      |                 |
|            | 62.5          | 2.00                                      | 2.00                                     | 118.05                        | 118.05                       | 273                    | 245                                 | 250                               | 62                            | 68            | —              | -4                      |                 |
|            | 65            | 2.00                                      | 2.00                                     | 120.05                        | 119.92                       | 274                    | 255                                 | 251                               | 67                            | 68            | —              | -4                      |                 |
| 10         | 67.5          | 2.00                                      | 2.10                                     | 121.92                        | 121.86                       | 272                    | 239                                 | 252                               | 69                            | 69            | —              | -4                      |                 |
|            | 70            | 2.00                                      | 2.10                                     | 123.87                        | 123.81                       | 273                    | 250                                 | 250                               | 68                            | 69            | —              | -4                      |                 |
|            | 72.5          | 2.00                                      | 2.10                                     | 125.81                        | 125.78                       | 271                    | 241                                 | 252                               | 68                            | 69            | —              | -4                      |                 |
| 11         | 75            | 2.00                                      | 2.10                                     | 127.79                        | 127.70                       | 272                    | 246                                 | 249                               | 70                            | 70            | —              | -4                      |                 |
|            | 77.5          | 2.00                                      | 2.10                                     | 129.71                        | 129.63                       | 273                    | 252                                 | 251                               | 68                            | 70            | —              | -4                      |                 |
|            | 80            | 2.00                                      | 2.10                                     | 131.64                        | 131.57                       | 271                    | 247                                 | 252                               | 68                            | 70            | —              | -4                      |                 |
| 12         | 82.5          | 2.00                                      | 2.10                                     | 133.58                        | 133.52                       | 270                    | 252                                 | 250                               | 68                            | 71            | —              | -4                      |                 |
|            | 85            | 2.00                                      | 2.10                                     | 135.54                        | 135.45                       | 271                    | 246                                 | 251                               | 69                            | 71            | —              | -4                      |                 |
|            | 87.5          | 2.00                                      | 2.10                                     | 137.46                        | 137.39                       | 271                    | 249                                 | 249                               | 68                            | 72            | —              | -4                      |                 |
|            | 90            | 2.00                                      | 2.10                                     | 139.41                        | 139.38                       | 271                    | 251                                 | 250                               | 68                            | 72            | —              | -4                      | Stopped @ 14:53 |

Pretest Leak Check Rate (cfm) 10.02 at -10 vacuum ("Hg)

Posttest Leak Check Rate (cfm) 10.02 at -10 vacuum ("Hg)

Leak Vol Start 0.00

Leak Vol End 139.34

Leak Vol. End 10.02

Leak Vol. End 139.53

Post-Pitot Check: ☒ (< 0.1" @ 3.0" for 15 sec)



RWDI AIR Inc.  
Consulting Engineers

## Moisture Analysis Data Sheet

Project #: 2509873 Project: SMC ECA  
Date: April - 8 - 2025 Test: T, SVOC  
Filter ID: N/A  
Sample Loc. Kiln Exhaust XAD Trap ID: #2  
Train ID: SVOC  
Pre-weights By: SM Post-weights By: SM

| Impinger # | Impinger Contents | Final Weight (g) | Initial Weight (g) | Net Condensate (g) |
|------------|-------------------|------------------|--------------------|--------------------|
| 1          | Condenser         | 274.0            | 271.5              |                    |
| 2          | XAD               | 328.5            | 324.5              |                    |
| 3          | KO                | 794.4            | 493.9              |                    |
| 4          | EG                | 764.2            | 743.0              |                    |
| 5          | MT                | 691.9            | 691.0              |                    |
| 6          | Silica Gel        | 846.0            | 832.4              |                    |
| 7          |                   |                  |                    |                    |
| 8          |                   |                  |                    |                    |
| TOTAL      |                   |                  |                    |                    |

### Balance QA Check:

|              | Actual (g) | Measured (g) | Error < 0.5 g | Initials |
|--------------|------------|--------------|---------------|----------|
| Pre-weights  | 500.0      | 500.3        | ✓             | SM       |
| Post-weights | 500.0      | 500.1        | ✓             | SM       |

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Nozzle Measurements:

1 0.20  
2 ↓  
3 ↓  
4 ↓

Avg

Johny Morris  
Signature

8-April-25  
Date



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: MM

Job Name SMC St. Mary's ECA

Job Numb 2509873

Client: SMC

Plant: SMC St. Mary's

Source: Kiln Exhaust

Traverse: 1

Test No.: 71

Operators: AD

Traverse Dir.: 2m-124

Start Time: 9:37

Finish Time:

Date: April 8/25

Stack D.: 2.4m

Pre -Pitot Check: ☒

Port length: 6

(&lt; 0.1" @ 3.0" for 15 sec)

Page: 1 of 2

Dn: 0.20

Cp: 0.955

Bws: 11%

dH@: 19323

Y: 0.9657

Pbar: 28.72

Pstatic: -1.2

CO<sub>2</sub>: 12O<sub>2</sub>: 12

Pitot ID: 8141

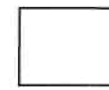
Console ID: 17

| Pt.<br>(#) | Time<br>(min) | Velocity<br>Press.<br>("H <sub>2</sub> O) | Orifice<br>Press.<br>("H <sub>2</sub> O) | Gas Meter Reading             |                              | Stack<br>Temp.<br>(°F) | Probe<br>Temp. (°F)<br>223 - 273 °F | Box<br>Temp. (°F)<br>223 - 273 °F | Imp.<br>Temp. (°F)<br>< 68 °F | Meter         |                | Cond.<br>Temp. (°F)<br>< 68 °F | Vac.<br>Press.<br>("Hg) | Comments       |
|------------|---------------|-------------------------------------------|------------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------|-----------------------------------|-------------------------------|---------------|----------------|--------------------------------|-------------------------|----------------|
|            |               |                                           |                                          | Desired<br>(ft <sup>3</sup> ) | Actual<br>(ft <sup>3</sup> ) |                        |                                     |                                   |                               | Inlet<br>(°F) | Outlet<br>(°F) |                                |                         |                |
| 1          | 0             | 1.50                                      | 1.50                                     |                               | 0.26                         | 241                    | 245                                 | 240                               | 34                            | 33            | 33             | 33                             | -2                      |                |
|            | 2.5           | 1.50                                      | 1.50                                     |                               | 2.02                         | 241                    | 249                                 | 241                               | 37                            | 33            | 33             | 33                             | -3                      |                |
|            | 5             | 1.50                                      | 1.50                                     |                               | 3.63                         | 240                    | 240                                 | 240                               | 33                            | 33            | 33             | 33                             | -3                      |                |
| 2          | 7.5           | 1.50                                      | 1.50                                     |                               | 5.38                         | 240                    | 248                                 | 249                               | 42                            | 33            | 33             | 33                             | -3                      |                |
|            | 10            | 1.50                                      | 1.50                                     |                               | 7.02                         | 241                    | 247                                 | 252                               | 42                            | 33            | 33             | 33                             | -4                      |                |
|            | 12.5          | 1.50                                      | 1.60                                     |                               | 8.72                         | 240                    | 246                                 | 249                               | 43                            | 33            | 33             | 33                             | -4                      |                |
| 3          | 15            | 1.50                                      | 1.60                                     |                               | 10.39                        | 240                    | 245                                 | 250                               | 43                            | 33            | 33             | 33                             | -4                      |                |
|            | 17.5          | 1.50                                      | 1.60                                     |                               | 12.09                        | 240                    | 246                                 | 250                               | 44                            | 33            | 33             | 33                             | -4                      |                |
|            | 20            | 1.45                                      | 1.60                                     |                               | 13.80                        | 240                    | 246                                 | 250                               | 44                            | 33            | 33             | 34                             | -4                      |                |
| 4          | 22.5          | 1.45                                      | 1.60                                     |                               | 15.50                        | 242                    | 249                                 | 251                               | 46                            | 33            | 33             | 34                             | -4                      | pause at 11:07 |
|            | 25            | 1.45                                      | 1.60                                     |                               | 17.19                        | 243                    | 247                                 | 250                               | 46                            | 33            | 33             | 34                             | -4                      |                |
|            | 27.5          | 1.45                                      | 1.60                                     |                               | 18.87                        | 247                    | 246                                 | 250                               | 46                            | 33            | 33             | 34                             | -4                      |                |
| 5          | 30            | 1.45                                      | 1.60                                     |                               | 20.60                        | 242                    | 246                                 | 251                               | 46                            | 33            | 33             | 34                             | -3                      |                |
|            | 32.5          | 1.45                                      | 1.60                                     |                               | 22.30                        | 243                    | 249                                 | 250                               | 45                            | 33            | 33             | 34                             | -3                      |                |
|            | 35            | 1.45                                      | 1.60                                     |                               | 24.02                        | 243                    | 246                                 | 250                               | 45                            | 33            | 33             | 34                             | -3                      |                |
| 6          | 37.5          | 1.45                                      | 1.60                                     |                               | 25.73                        | 243                    | 247                                 | 251                               | 46                            | 34            | 34             | 34                             | -3                      |                |
|            | 40            | 1.45                                      | 1.60                                     |                               | 27.42                        | 241                    | 247                                 | 251                               | 46                            | 34            | 34             | 34                             | -3                      |                |
|            | 42.5          | 1.45                                      | 1.60                                     |                               | 29.11                        | 241                    | 248                                 | 252                               | 46                            | 34            | 34             | 34                             | -3                      |                |
| 7          | 45            | 1.45                                      | 1.60                                     |                               | 30.82                        | 241                    | 245                                 | 248                               | 46                            | 35            | 35             | 34                             | -3                      |                |
|            | 47.5          | 1.45                                      | 1.60                                     |                               | 32.52                        | 242                    | 246                                 | 253                               | 46                            | 35            | 35             | 35                             | -3                      |                |
|            | 50            | 1.45                                      | 1.60                                     |                               | 34.19                        | 242                    | 247                                 | 250                               | 46                            | 35            | 35             | 35                             | -3                      |                |
| 8          | 52.5          | 1.45                                      | 1.60                                     |                               | 35.83                        | 242                    | 247                                 | 252                               | 47                            | 36            | 36             | 36                             | -3                      |                |
|            | 55            | 1.45                                      | 1.60                                     |                               | 37.63                        | 242                    | 247                                 | 252                               | 47                            | 36            | 36             | 36                             | -3                      |                |
|            | 57.5          | 1.45                                      | 1.60                                     |                               | 39.32                        | 241                    | 246                                 | 250                               | 47                            | 36            | 36             | 36                             | -3                      |                |
| 9          | 60            | 1.45                                      | 1.60                                     |                               | 41.05                        | 243                    | 246                                 | 245                               | 47                            | 36            | 36             | 36                             | -3                      |                |
|            | 62.5          | 1.45                                      | 1.60                                     |                               | 42.78                        | 240                    | 247                                 | 248                               | 47                            | 36            | 36             | 36                             | -3                      |                |
|            | 65            | 1.45                                      | 1.60                                     |                               | 44.47                        | 241                    | 246                                 | 247                               | 50                            | 36            | 36             | 36                             | -3                      |                |
| 10         | 67.5          | 1.45                                      | 1.60                                     |                               | 46.15                        | 253 243                | 245                                 | 247                               | 51                            | 36            | 36             | 39                             | -3                      |                |
|            | 70            | 1.45                                      | 1.60                                     |                               | 47.84                        | 246                    | 245                                 | 253                               | 51                            | 36            | 36             | 39                             | -3                      |                |
|            | 72.5          | 1.45                                      | 1.60                                     |                               | 49.53                        | 241                    | 245                                 | 247                               | 50                            | 36            | 36             | 39                             | -3                      |                |
| 11         | 75            | 1.45                                      | 1.60                                     |                               | 51.20                        | 244                    | 248                                 | 253                               | 50                            | 36            | 36             | 39                             | -3                      |                |
|            | 77.5          | 1.45                                      | 1.60                                     |                               | 52.89                        | 247                    | 248                                 | 252                               | 50                            | 35            | 35             | 40                             | -3                      |                |
|            | 80            | 1.45                                      | 1.60                                     |                               | 54.58                        | 247                    | 246                                 | 250                               | 50                            | 35            | 35             | 40                             | -3                      |                |
| 12         | 82.5          | 1.45                                      | 1.60                                     |                               | 56.28                        | 245                    | 250                                 | 241                               | 50                            | 35            | 35             | 40                             | -3                      |                |
|            | 85            | 1.45                                      | 1.60                                     |                               | 57.98                        | 245                    | 249                                 | 244                               | 50                            | 35            | 35             | 40                             | -4                      |                |
|            | 87.5          | 1.45                                      | 1.60                                     |                               | 59.70                        | 244                    | 250                                 | 258                               | 50                            | 35            | 35             | 40                             | -4                      |                |
|            | 90            |                                           |                                          |                               | 61.35                        |                        |                                     |                                   |                               |               |                |                                |                         |                |

Pretest Leak Check Rate (cfm) 0.02 at -10 vacuum ("Hg)Posttest Leak Check Rate (cfm) — at — vacuum ("Hg)Leak Vol Start 0Leak Vol End —Leak Vol. End 0.196Leak Vol. End —Post -Pitot Check: — (< 0.1" @ 3.0" for 15 sec)



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: [Signature]Job Name: SMC St. Mary's ECA  
Job Numb: 2509873  
Client: SMCPlant: SMC St. Mary's  
Source: Kiln Exhaust  
Traverse: 1Test No.: 1  
Operators: 1  
Traverse Dir.: 1Start Time: 12:53  
Finish Time: 12:53  
Date: 12/5/03Stack D.: 2.4m  
Pre-Pitot Check: 1  
Port length: 1(< 0.1" @ 3.0" for 15 sec)  
Page: 2 of 2Dn: 1 Cp: 1 Bws: 1 dH@: 1 Y: 1 Pbar: 1 Pstatic: 1 CO<sub>2</sub>: 1 O<sub>2</sub>: 1 Pitot ID: 1Console ID: 1

| Pt.<br>(#) | Time<br>(min) | Velocity<br>Press.<br>("H <sub>2</sub> O) | Orifice<br>Press.<br>("H <sub>2</sub> O) | Gas Meter Reading             |                              | Stack<br>Temp.<br>(°F) | Probe<br>Temp. (°F)<br>223 - 273 °F | Box<br>Temp. (°F)<br>223 - 273 °F | Imp.<br>Temp. (°F)<br>< 68 °F | Meter         |                | Cond.<br>Temp. (°F)<br>< 68 °F | Vac.<br>Press.<br>("Hg) | Comments |
|------------|---------------|-------------------------------------------|------------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------|-----------------------------------|-------------------------------|---------------|----------------|--------------------------------|-------------------------|----------|
|            |               |                                           |                                          | Desired<br>(ft <sup>3</sup> ) | Actual<br>(ft <sup>3</sup> ) |                        |                                     |                                   |                               | Inlet<br>(°F) | Outlet<br>(°F) |                                |                         |          |
| 1          | 0             | 1.45                                      | 1.60                                     | 113.5                         | 244                          | 250                    | 254                                 | 50                                | 35                            | 40            | -4             |                                |                         |          |
|            | 2.5           | 1.45                                      | 1.60                                     | 62.05                         | 238                          | 240                    | 236                                 | 50                                | 35                            | 40            | -3             |                                |                         | Resume   |
|            | 5             | 1.45                                      | 1.60                                     | 64.72                         | 240                          | 247                    | 244                                 | 50                                | 35                            | 40            | -3             |                                |                         | 111.3    |
| 2          | 7.5           | 1.45                                      | 1.60                                     | 66.46                         | 242                          | 242                    | 252                                 | 54                                | 35                            | 40            | -4             |                                |                         |          |
|            | 10            | 1.45                                      | 1.60                                     | 68.43                         | 238                          | 246                    | 250                                 | 54                                | 35                            | 40            | -4             |                                |                         |          |
|            | 12.5          | 1.45                                      | 1.60                                     | 69.69                         | 238                          | 241                    | 248                                 | 54                                | 35                            | 40            | -4             |                                |                         |          |
| 3          | 15            | 1.45                                      | 1.60                                     | 71.61                         | 238                          | 240                    | 237                                 | 54                                | 35                            | 40            | -4             |                                |                         |          |
|            | 17.5          | 1.45                                      | 1.60                                     | 73.34                         | 238                          | 240                    | 243                                 | 50                                | 35                            | 40            | -4             |                                |                         |          |
|            | 20            | 1.45                                      | 1.60                                     | 75.03                         | 239                          | 240                    | 236                                 | 50                                | 34                            | 40            | -4             |                                |                         |          |
| 4          | 22.5          | 1.45                                      | 1.60                                     | 76.74                         | 239                          | 243                    | 237                                 | 55                                | 34                            | 40            | -4             |                                |                         |          |
|            | 25            | 1.45                                      | 1.60                                     | 78.44                         | 239                          | 244                    | 239                                 | 45                                | 34                            | 40            | -4             |                                |                         |          |
|            | 27.5          | 1.45                                      | 1.60                                     | 80.17                         | 240                          | 244                    | 231                                 | 45                                | 34                            | 40            | -4             |                                |                         |          |
| 5          | 30            | 1.45                                      | 1.60                                     | 81.89                         | 240                          | 244                    | 234                                 | 44                                | 37                            | 36            | -4             |                                |                         |          |
|            | 32.5          | 1.45                                      | 1.60                                     | 83.55                         | 240                          | 239                    | 252                                 | 44                                | 35                            | 36            | -4             |                                |                         |          |
|            | 35            | 1.45                                      | 1.60                                     | 85.23                         | 240                          | 237                    | 252                                 | 44                                | 33                            | 36            | -4             |                                |                         |          |
| 6          | 37.5          | 1.45                                      | 1.60                                     | 86.91                         | 240                          | 244                    | 252                                 | 44                                | 33                            | 36            | -4             |                                |                         |          |
|            | 40            | 1.45                                      | 1.60                                     | 88.75                         | 240                          | 245                    | 244                                 | 44                                | 33                            | 36            | -4             |                                |                         |          |
|            | 42.5          | 1.45                                      | 1.60                                     | 90.41                         | 240                          | 245                    | 244                                 | 44                                | 33                            | 36            | -4             |                                |                         |          |
| 7          | 45            | 1.45                                      | 1.60                                     | 92.08                         | 241                          | 246                    | 236                                 | 44                                | 33                            | 36            | -4             |                                |                         |          |
|            | 47.5          | 1.45                                      | 1.65                                     | 93.76                         | 241                          | 247                    | 248                                 | 44                                | 32                            | 35            | -4             |                                |                         |          |
|            | 50            | 1.45                                      | 1.60                                     | 95.44                         | 247                          | 247                    | 248                                 | 44                                | 32                            | 35            | -4             |                                |                         |          |
| 8          | 52.5          | 1.45                                      | 1.60                                     | 97.13                         | 247                          | 243                    | 249                                 | 44                                | 32                            | 35            | -4             |                                |                         |          |
|            | 55            | 1.45                                      | 1.60                                     | 98.82                         | 247                          | 245                    | 246                                 | 44                                | 32                            | 35            | -4             |                                |                         |          |
|            | 57.5          | 1.45                                      | 1.60                                     | 100.55                        | 244                          | 245                    | 250                                 | 42                                | 32                            | 34            | -4             |                                |                         |          |
| 9          | 60            | 1.45                                      | 1.60                                     | 102.20                        | 238                          | 245                    | 247                                 | 42                                | 32                            | 34            | -4             |                                |                         |          |
|            | 62.5          | 1.45                                      | 1.60                                     | 103.94                        | 237                          | 244                    | 251                                 | 40                                | 32                            | 34            | -4             |                                |                         |          |
|            | 65            | 1.45                                      | 1.60                                     | 105.60                        | 237                          | 243                    | 253                                 | 40                                | 32                            | 34            | -4             |                                |                         |          |
| 10         | 67.5          | 1.45                                      | 1.60                                     | 107.25                        | 238                          | 240                    | 243                                 | 40                                | 35                            | 36            | -4             |                                |                         |          |
|            | 70            | 1.45                                      | 1.60                                     | 108.94                        | 238                          | 240                    | 237                                 | 40                                | 34                            | 36            | -4             |                                |                         |          |
|            | 72.5          | 1.45                                      | 1.60                                     | 110.65                        | 239                          | 241                    | 240                                 | 40                                | 44                            | 36            | -4             |                                |                         |          |
| 11         | 75            | 1.45                                      | 1.60                                     | 112.39                        | 239                          | 245                    | 255                                 | 40                                | 44                            | 36            | -4             |                                |                         |          |
|            | 77.5          | 1.45                                      | 1.60                                     | 114.15                        | 240                          | 245                    | 252                                 | 40                                | 44                            | 34            | -4             |                                |                         |          |
|            | 80            | 1.45                                      | 1.60                                     | 115.83                        | 240                          | 245                    | 254                                 | 40                                | 44                            | 34            | -4             |                                |                         |          |
| 12         | 82.5          | 1.45                                      | 1.60                                     | 117.54                        | 240                          | 245                    | 252                                 | 40                                | 44                            | 34            | -4             |                                |                         |          |
|            | 85            | 1.45                                      | 1.60                                     | 119.26                        | 241                          | 245                    | 240                                 | 40                                | 44                            | 34            | -4             |                                |                         |          |
|            | 87.5          | 1.45                                      | 1.60                                     | 120.95                        | 242                          | 245                    | 245                                 | 40                                | 44                            | 34            | -4             |                                |                         |          |
|            | 90            |                                           |                                          | 122.65                        |                              |                        |                                     |                                   |                               |               |                |                                |                         |          |

Pretest Leak Check Rate (cfm) 1 at 1 vacuum ("Hg)  
Posttest Leak Check Rate (cfm) 0.02 at -1.0 vacuum ("Hg)Leak Vol Start 102.65  
Leak Vol End 122.65Leak Vol. End 122.65Post-Pilot Check: 1 (< 0.1" @ 3.0" for 15 sec)



RWDI AIR Inc.  
Consulting Engineers

## Moisture Analysis Data Sheet

Project #: 2509873 Project: SMC ECA  
Date: 8-April-2023 Test: T2SVOC  
Filter ID: N/A  
Sample Loc. Kiln Exhaust XAD Trap ID: #7 - needs to be ref  
Train ID: SVOC - 7  
Pre-weights By: SM Post-weights By: SM

| Impinger # | Impinger Contents | Final Weight (g) | Initial Weight (g) | Net Condensate (g) |
|------------|-------------------|------------------|--------------------|--------------------|
| 1          | Condenser         | 287.0            | <del>285.1</del>   | 285.1              |
| 2          | XAD               | 362.3            | 357.3              |                    |
| 3          | KO                | 813.4            | 495.5              |                    |
| 4          | EG                | 790.5            | 766.1              |                    |
| 5          | MT                | 638.8            | 638.3              |                    |
| 6          | Silica Gel        | 892.6            | 882.4              |                    |
| 7          |                   |                  |                    |                    |
| 8          |                   |                  |                    |                    |
| TOTAL      |                   |                  |                    |                    |

### Balance QA Check:

|              | Actual (g) | Measured (g) | Error < 0.5 g | Initials |
|--------------|------------|--------------|---------------|----------|
| Pre-weights  | 500.0      | 500.1        | ✓             | SM       |
| Post-weights | 500.0      | 500.2        | ✓             | SM       |

Comments:

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### Nozzle Measurements:

1 0.2  
2 ↓  
3 ↓  
4 ↓

Avg

  
Signature

8-April-2023  
Date



— Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: [Signature]

Job Name SMC St. Mary's ECA

Job Numb 2509873

Client: SMC

Dn: 102 Cp: 0.855

Plant: SMC St. Mary's

Source: Kiln Exhaust

Traverse: 1

Bws: 11

Test No.: T2 succ

Operators: MS

Traverse Dir.: to air

dH@: 1.932

Y: 0.963

Start Time: 2:28

Finish Time: 4:15

Date: April 2015

Pbar: 28.72

Stack D.: 2.4m

Pre -Pitot Check: ✓

Port length: 6

CO<sub>2</sub>: 12

O<sub>2</sub>: 12

( $< 0.1''$  @  $3.0''$  for 15 sec)

Page: 1 of 2

Pitot ID: 8' 4'

Console ID: #

| Pt.<br>(#) | Time<br>(min) | Velocity<br>Press.<br>("H <sub>2</sub> O) | Orifice<br>Press.<br>("H <sub>2</sub> O) | Gas Meter Reading             |                              | Stack<br>Temp.<br>(°F) | Probe<br>Temp. (°F)<br>223 - 273 °F | Box<br>Temp. (°F)<br>223 - 273 °F | Imp.<br>Temp. (°F)<br>< 68 °F | Meter         |                | Cond.<br>Temp. (°F)<br>< 68 °F | Vac.<br>Press.<br>("Hg) | Comments             |
|------------|---------------|-------------------------------------------|------------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------|-----------------------------------|-------------------------------|---------------|----------------|--------------------------------|-------------------------|----------------------|
|            |               |                                           |                                          | Desired<br>(ft <sup>3</sup> ) | Actual<br>(ft <sup>3</sup> ) |                        |                                     |                                   |                               | Inlet<br>(°F) | Outlet<br>(°F) |                                |                         |                      |
| 1          | 0             | 1.10                                      | 1.10                                     |                               | 0                            | 314                    | 245                                 | 250                               | 31                            | 43            | 33             | -3                             |                         |                      |
|            | 2.5           | 1.10                                      | 1.15                                     |                               | 1.49                         | 314                    | 244                                 | 250                               | 31                            | 43            | 33             | -4                             |                         | 1.46-end of test     |
|            | 5             | 1.10                                      | 1.15                                     |                               | 2.96                         | 314                    | 244                                 | 250                               | 31                            | 43            | 33             | -4                             |                         | flow mlt off         |
| 2          | 7.5           | 1.10                                      | 1.15                                     |                               | 4.33                         | 314                    | 244                                 | 250                               | 31                            | 43            | 33             | -4                             |                         |                      |
|            | 10            | 1.10                                      | 1.20                                     |                               | 5.71                         | 319                    | 245                                 | 250                               | 31                            | 43            | 33             | -4                             |                         |                      |
|            | 12.5          | 1.10                                      | 1.20                                     |                               | 1.07                         | 319                    | 244                                 | 250                               | 33                            | 43            | 33             | -4                             |                         |                      |
| 3          | 15            | 1.10                                      | 1.10                                     |                               | 9.845                        | 319                    | 244                                 | 250                               | 33                            | 42            | 33             | -4                             |                         | start                |
|            | 17.5          | 1.10                                      | 1.20                                     |                               | 11.94                        | 320                    | 244                                 | 252                               | 33                            | 42            | 33             | -4                             |                         |                      |
|            | 20            | 1.10                                      | 1.20                                     |                               | 11.31                        | 319                    | 244                                 | 250                               | 33                            | 42            | 33             | -4                             |                         |                      |
| 4          | 22.5          | 1.10                                      | 1.20                                     |                               | 12.70                        | 319                    | 244                                 | 250                               | 33                            | 42            | 33             | -4                             |                         |                      |
|            | 25            | 1.10                                      | 1.20                                     |                               | 14.20                        | 324                    | 245                                 | 250                               | 33                            | 42            | 33             | -4                             |                         | 3.07 = all leaks off |
|            | 27.5          | 1.10                                      | 1.10                                     |                               | 15.74                        | 326                    | 245                                 | 250                               | 33                            | 42            | 33             | -4                             |                         |                      |
| 5          | 30            | 1.10                                      | 1.10                                     |                               | 17.25                        | 326                    | 245                                 | 250                               | 33                            | 42            | 33             | -4                             |                         |                      |
|            | 32.5          | 1.10                                      | 1.10                                     |                               | 18.75                        | 326                    | 249                                 | 249                               | 34                            | 44            | 29             | -4                             |                         | pause at 3:30        |
|            | 35            | 1.10                                      | 1.10                                     |                               | 20.45                        | 328                    | 249                                 | 249                               | 34                            | 44            | 29             | -4                             |                         |                      |
| 6          | 37.5          | 1.10                                      | 1.10                                     |                               | 21.94                        | 328                    | 247                                 | 249                               | 34                            | 44            | 29             | -4                             |                         |                      |
|            | 40            | 1.10                                      | 1.10                                     |                               | 23.33                        | 329                    | 247                                 | 249                               | 34                            | 44            | 29             | -4                             |                         |                      |
|            | 42.5          | 1.10                                      | 1.10                                     |                               | 24.75                        | 330                    | 248                                 | 235                               | 34                            | 44            | 29             | -4                             |                         |                      |
| 7          | 45            | 1.05                                      | 1.10                                     |                               | 26.24                        | 330                    | 248                                 | 230                               | 34                            | 44            | 29             | -4                             |                         |                      |
|            | 47.5          | 1.05                                      | 1.10                                     |                               | 27.70                        | 334                    | 245                                 | 230                               | 35                            | 45            | 29             | -4                             |                         | Resume               |
|            | 50            | 1.05                                      | 1.10                                     |                               | 29.16                        | 332                    | 245                                 | 240                               | 35                            | 45            | 29             | -4                             |                         |                      |
| 8          | 52.5          | 1.05                                      | 1.10                                     |                               | 30.68                        | 332                    | 245                                 | 245                               | 35                            | 45            | 29             | -4                             |                         | 8:07                 |
|            | 55            | 1.05                                      | 1.10                                     |                               | 32.38                        | 332                    | 245                                 | 246                               | 35                            | 45            | 29             | -4                             |                         |                      |
|            | 57.5          | 1.05                                      | 1.10                                     |                               | 33.71                        | 332                    | 245                                 | 246                               | 35                            | 45            | 29             | -4                             |                         | next day             |
| 9          | 60            | 1.05                                      | 1.10                                     |                               | 35.01                        | 334                    | 245                                 | 246                               | 35                            | 45            | 29             | -4                             |                         |                      |
|            | 62.5          | 1.05                                      | 1.10                                     |                               | 36.31                        | 340                    | 244                                 | 245                               | 35                            | 45            | 29             | -4                             |                         |                      |
|            | 65            | 1.40                                      | 1.45                                     |                               | 37.80                        | 240                    | 249                                 | 246                               | 33                            | 46            | 30             | -5                             |                         | Pause                |
| 10         | 67.5          | 1.45                                      | 1.50                                     |                               | 39.46                        | 240                    | 244                                 | 248                               | 33                            | 40            | 30             | -5                             |                         | 8:35                 |
|            | 70            | 1.46                                      | 1.40                                     |                               | 41.08                        | 241                    | 246                                 | 250                               | 32                            | 41            | 30             | -5                             |                         |                      |
|            | 72.5          | 1.43                                      | 1.40                                     |                               | 42.62                        | 241                    | 246                                 | 251                               | 32                            | 41            | 30             | -5                             |                         |                      |
| 11         | 75            | 1.50                                      | 1.50                                     |                               | 44.28                        | 242                    | 246                                 | 249                               | 36                            | 40            | 34             | -6                             |                         |                      |
|            | 77.5          | 1.50                                      | 1.50                                     |                               | 45.95                        | 242                    | 244                                 | 250                               | 40                            | 40            | 44             | -6                             |                         |                      |
|            | 80            | 1.50                                      | 1.60                                     |                               | 47.65                        | 242                    | 245                                 | 249                               | 47                            | 40            | 44             | -6                             |                         |                      |
| 12         | 82.5          | 1.50                                      | 1.60                                     |                               | 49.36                        | 242                    | 245                                 | 250                               | 47                            | 40            | 44             | -6                             |                         |                      |
|            | 85            | 1.55                                      | 1.70                                     |                               | 51.10                        | 242                    | 245                                 | 250                               | 42                            | 40            | 44             | -6                             |                         |                      |
|            | 87.5          | 1.55                                      | 1.70                                     |                               | 52.83                        | 241                    | 243                                 | 250                               | 42                            | 40            | 44             | -6                             |                         |                      |
|            | 90            |                                           |                                          |                               |                              |                        |                                     |                                   |                               |               |                |                                |                         |                      |

Pretest Leak Check Rate (cfm) 0.02 at -10 vacuum ("Hg)  
Posttest Leak Check Rate (cfm) — at — vacuum ("Hg)

Leak Vol Start 0  
Leak Vol Start —

Leak Vol. End 4.01  
Leak Vol. End —

Post -Pitot Check: 1 ( $< 0.1''$  @  $3.0''$  for 15 sec)



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: MBJob Name SMC St. Mary's ECA  
Job Numb 2509873  
Client SMCPlant: SMC St. Mary's Test No.: 72 SMC  
Source: Kiln Exhaust Operators: MB  
Traverse: 2 Traverse Dir.: EastStart Time: -  
Finish Time: 10:17  
Date: -Stack D.: 2.4m  
Pre-Pitot Check: ✓ (< 0.1" @ 3.0" for 15 sec)  
Port length: 6 Page: 2 of 2Dn: - Cp: - Bws: - dH@: - Y: - Pbar: - Pstatic: - CO<sub>2</sub>: - O<sub>2</sub>: - Pitot ID: -Console ID: -

| Pt. (#) | Time (min) | Velocity Press. ("H <sub>2</sub> O) | Orifice Press. ("H <sub>2</sub> O) | Gas Meter Reading          |                           | Stack Temp. (°F) | Probe Temp. (°F) 223 - 273 °F | Box Temp. (°F) 223 - 273 °F | Imp. Temp. (°F) < 68 °F | Meter      |             | Cond. Temp. (°F) < 68 °F | Vac. Press. ("Hg) | Comments |
|---------|------------|-------------------------------------|------------------------------------|----------------------------|---------------------------|------------------|-------------------------------|-----------------------------|-------------------------|------------|-------------|--------------------------|-------------------|----------|
|         |            |                                     |                                    | Desired (ft <sup>3</sup> ) | Actual (ft <sup>3</sup> ) |                  |                               |                             |                         | Inlet (°F) | Outlet (°F) |                          |                   |          |
| 1       | 0          | 1.55                                | 1.70                               |                            | 51.35                     | 241              | 243                           | 251                         | 42                      |            | 40          | 44                       | -6                |          |
|         | 2.5        | 1.50                                | 1.70                               |                            | 56.33                     | 241              | 246                           | 270                         | 42                      |            | 40          | 44                       | -6                |          |
|         | 5          | 1.65                                | 1.70                               |                            | 58.08                     | 241              | 246                           | 271                         | 42                      |            | 40          | 44                       | -6                |          |
| 2       | 7.5        | 1.45                                | 1.70                               |                            | 59.90                     | 241              | 246                           | 271                         | 42                      |            | 40          | 44                       | -6                |          |
|         | 10         | 1.45                                | 1.70                               |                            | 61.55                     | 247              | 240                           | 270                         | 42                      |            | 40          | 44                       | -6                |          |
|         | 12.5       | 1.50                                | 1.70                               |                            | 63.34                     | 242              | 246                           | 269                         | 42                      |            | 40          | 46                       | -6                |          |
| 3       | 15         | 1.50                                | 1.70                               |                            | 65.17                     | 242              | 246                           | 272                         | 42                      |            | 40          | 46                       | -6                |          |
|         | 17.5       | 1.50                                | 1.65                               |                            | 66.91                     | 247              | 245                           | 272                         | 44                      |            | 40          | 50                       | -6                |          |
|         | 20         | 1.50                                | 1.65                               |                            | 68.69                     | 247              | 240                           | 272                         | 44                      |            | 40          | 50                       | -6                |          |
| 4       | 22.5       | 1.50                                | 1.65                               |                            | 70.45                     | 240              | 240                           | 272                         | 44                      |            | 40          | 50                       | -6                |          |
|         | 25         | 1.45                                | 1.70                               |                            | 72.24                     | 241              | 240                           | 272                         | 44                      |            | 40          | 50                       | -6                |          |
|         | 27.5       | 1.45                                | 1.70                               |                            | 73.93                     | 241              | 240                           | 272                         | 44                      |            | 40          | 50                       | -6                |          |
| 5       | 30         | 1.45                                | 1.70                               |                            | 75.60                     | 241              | 240                           | 270                         | 46                      |            | 40          | 48                       | -6                |          |
|         | 32.5       | 1.45                                | 1.70                               |                            | 77.38                     | 244              | 240                           | 265                         | 46                      |            | 42          | 48                       | -6                |          |
|         | 35         | 1.5                                 | 1.70                               |                            | 79.17                     | 244              | 245                           | 271                         | 44                      |            | 40          | 44                       | -6                |          |
| 6       | 37.5       | 1.50                                | 1.65                               |                            | 80.94                     | 244              | 245                           | 271                         | 44                      |            | 40          | 44                       | -6                | Raw mil  |
|         | 40         | 1.55                                | 1.65                               |                            | 82.75                     | 245              | 248                           | 272                         | 44                      |            | 40          | 44                       | -6                | on today |
|         | 42.5       | 1.55                                | 1.65                               |                            | 84.59                     | 245              | 248                           | 272                         | 44                      |            | 40          | 44                       | -6                |          |
| 7       | 45         | 1.55                                | 1.65                               |                            | 86.34                     | 245              | 248                           | 272                         | 44                      |            | 40          | 44                       | -6                |          |
|         | 47.5       | 1.50                                | 1.65                               |                            | 88.14                     | 245              | 248                           | 272                         | 44                      |            | 40          | 44                       | -6                |          |
|         | 50         | 1.50                                | 1.65                               |                            | 89.72                     | 244              | 244                           | 270                         | 44                      |            | 40          | 44                       | -6                |          |
| 8       | 52.5       | 1.50                                | 1.65                               |                            | 91.47                     | 243              | 244                           | 270                         | 46                      |            | 40          | 48                       | -6                |          |
|         | 55         | 1.50                                | 1.65                               |                            | 93.19                     | 244              | 247                           | 272                         | 46                      |            | 42          | 48                       | -6                |          |
|         | 57.5       | 1.50                                | 1.65                               |                            | 94.92                     | 244              | 247                           | 272                         | 46                      |            | 42          | 48                       | -6                |          |
| 9       | 60         | 1.50                                | 1.65                               |                            | 96.51                     | 244              | 247                           | 272                         | 46                      |            | 42          | 48                       | -6                |          |
|         | 62.5       | 1.50                                | 1.60                               |                            | 98.29                     | 244              | 245                           | 272                         | 46                      |            | 42          | 48                       | -6                |          |
|         | 65         | 1.50                                | 1.60                               |                            | 100.05                    | 245              | 245                           | 270                         | 46                      |            | 42          | 48                       | -6                |          |
| 10      | 67.5       | 1.50                                | 1.60                               | 101.85                     | 101.85                    | 245              | 245                           | 272                         | 50                      |            | 46          | 50                       | -6                |          |
|         | 70         | 1.50                                | 1.60                               |                            | 103.63                    | 245              | 245                           | 272                         | 50                      |            | 46          | 50                       | -6                |          |
|         | 72.5       | 1.50                                | 1.60                               |                            | 105.40                    | 246              | 250                           | 273                         | 50                      |            | 46          | 50                       | -6                |          |
| 11      | 75         | 1.50                                | 1.60                               |                            | 107.18                    | 247              | 250                           | 271                         | 50                      |            | 46          | 50                       | -6                |          |
|         | 77.5       | 1.50                                | 1.65                               |                            | 108.94                    | 247              | 245                           | 271                         | 52                      |            | 45          | 50                       | -6                |          |
|         | 80         | 1.50                                | 1.65                               |                            | 110.71                    | 247              | 245                           | 270                         | 52                      |            | 45          | 50                       | -6                |          |
| 12      | 82.5       | 1.50                                | 1.60                               |                            | 112.46                    | 247              | 245                           | 273                         | 52                      |            | 45          | 51                       | -6                |          |
|         | 85         | 1.51                                | 1.60                               |                            | 114.24                    | 245              | 245                           | 273                         | 52                      |            | 45          | 51                       | -6                |          |
|         | 87.5       | 1.50                                | 1.60                               |                            | 115.99                    | 248              | 245                           | 270                         | 52                      |            | 46          | 50                       | -6                |          |
|         | 90         |                                     |                                    |                            | 117.76                    |                  |                               |                             |                         |            |             |                          |                   |          |

Pretest Leak Check Rate (cfm) ✓ at - vacuum ("Hg)  
Posttest Leak Check Rate (cfm) 0.62 at -10 vacuum ("Hg)Leak Vol Start -  
Leak Vol Start 117.76Leak Vol. End -  
Leak Vol. End 117.82Post-Pitot Check: ✓ (< 0.1" @ 3.0" for 15 sec)



RWDI AIR Inc.  
Consulting Engineers

## Moisture Analysis Data Sheet

Project #: 2509873 Project: SMC ECA  
Date: 9-April-2025 Test: T<sub>3</sub>SVOC  
Filter ID: N/A  
Sample Loc. Kiln Exhaust XAD Trap ID: #11  
Train ID: SVOC - ~~X8~~  
Pre-weights By: SM Post-weights By: SM

| Impinger # | Impinger Contents | Final Weight (g) | Initial Weight (g) | Net Condensate (g) |
|------------|-------------------|------------------|--------------------|--------------------|
| 1          | Condenser         | 239.7            | 238.9              |                    |
| 2          | XAD               | 368.8            | 364.7              |                    |
| 3          | KO                | 786.6            | 498.1              |                    |
| 4          | EG                | 767.5            | 739.5              |                    |
| 5          | MT                | 624.3            | 624.4              |                    |
| 6          | Silica Gel        | 849.4            | 843.0              |                    |
| 7          |                   |                  |                    |                    |
| 8          |                   |                  |                    |                    |
| TOTAL      |                   |                  |                    |                    |

### Balance QA Check:

|              | Actual (g) | Measured (g) | Error < 0.5 g | Initials |
|--------------|------------|--------------|---------------|----------|
| Pre-weights  | 500.0      | 499.8        | ✓             | SM       |
| Post-weights | 500.0      | 499.9        | ✓             | SM       |

Comments:

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Nozzle Measurements:

1 0.20  
2 ↓  
3 ↓  
4 ↓

Avg

Sydney Morris  
Signature

9-April-2025  
Date



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: [Signature]

Job Name SMC St. Mary's ECA  
Job Numb 2509873  
Client SMC

Plant: SMC St. Mary's  
Source: Kiln Exhaust  
Traverse: 1

Test No.: T3SVOC  
Operators: MB  
Traverse Dir.: 2-04

Start Time: 11:42  
Finish Time: 4/9/25  
Date: 4/9/25

Stack D.: 2.4m  
Pre-Pitot Check: ✓  
Port length: 6

( $< 0.1''$  @ 3.0" for 15 sec)  
Page: 1 of 2

Dn: 0.200 Cp: 0.955 Bws: 11 dH@: 1.9323 Y: 0.9637 Pbar: 29.00 Pstatic: -1.2 CO<sub>2</sub>: 12 O<sub>2</sub>: 13.5 Pitot ID: 81

Console ID: H

| Pt. (#) | Time (min) | Velocity Press. ("H <sub>2</sub> O) | Orifice Press. ("H <sub>2</sub> O) | Gas Meter Reading          |                           | Stack Temp. (°F) | Probe Temp. (°F)<br>223 - 273 °F | Box Temp. (°F)<br>223 - 273 °F | Imp. Temp. (°F)<br>< 68 °F | Meter      |             | Cond. Temp. (°F)<br>< 68 °F | Vac. Press. ("Hg) | Comments |
|---------|------------|-------------------------------------|------------------------------------|----------------------------|---------------------------|------------------|----------------------------------|--------------------------------|----------------------------|------------|-------------|-----------------------------|-------------------|----------|
|         |            |                                     |                                    | Desired (ft <sup>3</sup> ) | Actual (ft <sup>3</sup> ) |                  |                                  |                                |                            | Inlet (°F) | Outlet (°F) |                             |                   |          |
| 1       | 0          | 0.95                                | 1.50                               |                            | 0.18                      | 247              | 245                              | 270                            | 45                         |            | 40          | 45                          | -4                |          |
|         | 2.5        | 0.95                                | 1.50                               |                            | 1.55                      | 246              | 245                              | 272                            | 45                         |            | 40          | 45                          | -4                |          |
|         | 5          | 0.95                                | 1.50                               |                            | 2.90                      | 246              | 245                              | 272                            | 45                         |            | 40          | 45                          | -4                |          |
| 2       | 7.5        | 1.20                                | 1.50                               |                            | 4.3                       | 244              | 245                              | 270                            | 45                         |            | 40          | 45                          | -4                |          |
|         | 10         | 1.20                                | 1.50                               |                            | 5.83                      | 244              | 245                              | 270                            | 45                         |            | 40          | 45                          | -4                |          |
|         | 12.5       | 1.20                                | 1.50                               |                            | 7.24                      | 244              | 245                              | 270                            | 45                         |            | 40          | 45                          | -4                |          |
| 3       | 15         | 1.35                                | 1.50                               |                            | 8.97                      | 244              | 245                              | 270                            | 45                         |            | 46          | 45                          | -4                |          |
|         | 17.5       | 1.30                                | 1.50                               |                            | 10.67                     | 244              | 250                              | 271                            | 46                         |            | 41          | 45                          | -4                | Reverse  |
|         | 20         | 1.35                                | 1.50                               |                            | 12.0                      | 245              | 250                              | 271                            | 46                         |            | 41          | 45                          | -4                |          |
| 4       | 22.5       | 1.50                                | 1.50                               |                            | 13.90                     | 245              | 250                              | 271                            | 46                         |            | 41          | 45                          | -4                | 1:12     |
|         | 25         | 1.50                                | 1.50                               |                            | 15.55                     | 245              | 252                              | 271                            | 47                         |            | 43          | 46                          | -4                |          |
|         | 27.5       | 1.50                                | 1.50                               |                            | 17.48                     | 246              | 257                              | 272                            | 47                         |            | 43          | 46                          | -4                |          |
| 5       | 30         | 1.55                                | 1.50                               |                            | 19.24                     | 246              | 258                              | 272                            | 47                         |            | 43          | 46                          | -4                |          |
|         | 32.5       | 1.55                                | 1.50                               |                            | 21.04                     | 246              | 258                              | 271                            | 49                         |            | 44          | 46                          | -4                |          |
|         | 35         | 1.50                                | 1.50                               |                            | 22.91                     | 247              | 257                              | 270                            | 49                         |            | 47          | 48                          | -4                |          |
| 6       | 37.5       | 1.70                                | 1.50                               |                            | 24.76                     | 247              | 245                              | 273                            | 49                         |            | 42          | 48                          | -4                |          |
|         | 40         | 1.75                                | 1.50                               |                            | 26.54                     | 247              | 245                              | 270                            | 49                         |            | 42          | 48                          | -4                |          |
|         | 42.5       | 1.75                                | 1.50                               |                            | 28.52                     | 247              | 245                              | 270                            | 50                         |            | 44          | 49                          | -4                |          |
| 7       | 45         | 1.95                                | 1.45                               |                            | 30.35                     | 248              | 240                              | 265                            | 50                         |            | 44          | 49                          | -4                |          |
|         | 47.5       | 1.95                                | 1.45                               |                            | 32.30                     | 248              | 250                              | 268                            | 50                         |            | 44          | 49                          | -4                |          |
|         | 50         | 1.95                                | 1.45                               |                            | 34.37                     | 248              | 254                              | 272                            | 50                         |            | 44          | 49                          | -4                |          |
| 8       | 52.5       | 1.80                                | 1.45                               |                            | 36.29                     | 249              | 254                              | 270                            | 50                         |            | 44          | 49                          | -4                |          |
|         | 55         | 1.90                                | 1.45                               |                            | 38.25                     | 239              | 254                              | 270                            | 50                         |            | 44          | 49                          | -4                |          |
|         | 57.5       | 1.9                                 | 1.45                               |                            | 40.10                     | 248              | 250                              | 271                            | 50                         |            | 48          | 50                          | -4                |          |
| 9       | 60         | 1.55                                | 1.45                               |                            | 42.11                     | 247              | 240                              | 274                            | 50                         |            | 48          | 50                          | -4                |          |
|         | 62.5       | 1.55                                | 1.45                               |                            | 43.71                     | 247              | 245                              | 270                            | 50                         |            | 48          | 50                          | -4                |          |
|         | 65         | 1.45                                | 1.45                               |                            | 45.0                      | 246              | 249                              | 270                            | 50                         |            | 48          | 50                          | -4                |          |
| 10      | 67.5       | 1.20                                | 1.45                               |                            | 47.50                     | 246              | 249                              | 270                            | 50                         |            | 48          | 50                          | -4                |          |
|         | 70         | 1.20                                | 1.45                               |                            | 49.15                     | 246              | 250                              | 270                            | 50                         |            | 49          | 52                          | -4                |          |
|         | 72.5       | 1.20                                | 1.45                               |                            | 50.81                     | 247              | 250                              | 270                            | 50                         |            | 49          | 52                          | -4                |          |
| 11      | 75         | 1.10                                | 1.50                               |                            | 52.50                     | 247              | 240                              | 270                            | 50                         |            | 49          | 52                          | -4                |          |
|         | 77.5       | 1.10                                | 1.50                               |                            | 53.88                     | 248              | 254                              | 273                            | 52                         |            | 54          | 53                          | -4                |          |
|         | 80         | 1.10                                | 1.50                               |                            | 55.35                     | 248              | 262                              | 271                            | 52                         |            | 50          | 53                          | -4                |          |
| 12      | 82.5       | 1.05                                | 1.50                               |                            | 56.75                     | 248              | 249                              | 265                            | 52                         |            | 54          | 53                          | -4                |          |
|         | 85         | 1.05                                | 1.50                               |                            | 58.25                     | 248              | 249                              | 269                            | 52                         |            | 54          | 53                          | -4                |          |
|         | 87.5       | 1.05                                | 1.50                               |                            | 59.65                     | 249              | 244                              | 271                            | 54                         |            | 56          | 51                          | -4                |          |
|         | 90         | 1.00                                |                                    |                            | 61.19                     |                  |                                  |                                |                            |            |             |                             |                   |          |

Pretest Leak Check Rate (cfm) 0.02 at -10 vacuum ("Hg)  
Posttest Leak Check Rate (cfm) 0.02 at -10 vacuum ("Hg)

Leak Vol Start 0  
Leak Vol End 0.02

Leak Vol Start 0  
Leak Vol End 0.02

Post-Pitot Check: ✓ ( $< 0.1''$  @ 3.0" for 15 sec)



# — Isokinetic Sampling Train Data Sheet — ECA

Operator Signature: MM

Job Name SMC St. Mary's ECA Plant: SMC St. Mary's Test No.: T25V0C Start Time: — Stack D.: 2.4m  
 Job Numb 2509873 Source: Kiln Exhaust Operators: — Finish Time: 2:53 Pre-Pitot Check: — (< 0.1" @ 3.0" for 15 sec)  
 Client: SMC Traverse: 2 Traverse Dir.: — Date: — Port length: — Page: 2 of 2  
 Dn: — Cp: — Bws: — dH@: — Y: — Pbar: — Pstatic: — CO<sub>2</sub>: — O<sub>2</sub>: — Pitot ID: —

Console ID: —

| Pt.<br>(#) | Time<br>(min) | Velocity<br>Press.<br>("H <sub>2</sub> O) | Orifice<br>Press.<br>("H <sub>2</sub> O) | Gas Meter Reading             |                              | Stack<br>Temp.<br>(°F) | Probe<br>Temp. (°F)<br>223 - 273 °F | Box<br>Temp. (°F)<br>223 - 273 °F | Imp.<br>Temp. (°F)<br>< 68 °F | Meter         |                | Cond.<br>Temp. (°F)<br>< 68 °F | Vac.<br>Press.<br>("Hg) | Comments    |
|------------|---------------|-------------------------------------------|------------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------|-----------------------------------|-------------------------------|---------------|----------------|--------------------------------|-------------------------|-------------|
|            |               |                                           |                                          | Desired<br>(ft <sup>3</sup> ) | Actual<br>(ft <sup>3</sup> ) |                        |                                     |                                   |                               | Inlet<br>(°F) | Outlet<br>(°F) |                                |                         |             |
| 1          | 0             | 0.90                                      | 1.60                                     |                               | 61.14                        | 250                    | 254                                 | 271                               | 54                            |               | 56             | 51                             | -4                      |             |
|            | 2.5           | 0.90                                      | 1.60                                     |                               | 62.67                        | 250                    | 254                                 | 270                               | 54                            |               | 56             | 53                             | -4                      |             |
|            | 5             | 0.90                                      | 1.60                                     |                               | 64.09                        | 251                    | 254                                 | 270                               | 55                            |               | 56             | 54                             | -5                      |             |
| 2          | 7.5           | 1.10                                      | 1.60                                     |                               | 65.44                        | 252                    | 259                                 | 271                               | 55                            |               | 56             | 54                             | -5                      |             |
|            | 10            | 1.10                                      | 1.60                                     |                               | 66.76                        | 252                    | 256                                 | 266                               | 55                            |               | 56             | 54                             | -5                      | Test Resume |
|            | 12.5          | 1.10                                      | 1.60                                     |                               | 68.10                        | 252                    | 256                                 | 265                               | 55                            |               | 56             | 54                             | -5                      | 1:23        |
| 3          | 15            | 1.40                                      | 1.60                                     |                               | 69.99                        | 252                    | 256                                 | 270                               | 55                            |               | 56             | 54                             | -5                      |             |
|            | 17.5          | 1.40                                      | 1.60                                     |                               | 71.77                        | 251                    | 254                                 | 270                               | 55                            |               | 56             | 54                             | -5                      |             |
|            | 20            | 1.40                                      | 1.60                                     |                               | 73.51                        | 251                    | 259                                 | 271                               | 55                            |               | 56             | 54                             | -5                      | 9:1         |
| 4          | 22.5          | 1.65                                      | 1.60                                     |                               | 75.26                        | 251                    | 259                                 | 265                               | 56                            |               | 56             | 53                             | -5                      |             |
|            | 25            | 1.65                                      | 1.60                                     |                               | 77.06                        | 251                    | 259                                 | 266                               | 56                            |               | 56             | 53                             | -5                      | 7:53        |
|            | 27.5          | 1.55                                      | 1.60                                     |                               | 78.87                        | 253                    | 256                                 | 269                               | 56                            |               | 56             | 53                             | -5                      |             |
| 5          | 30            | 1.65                                      | 1.60                                     |                               | 80.71                        | 253                    | 256                                 | 271                               | 56                            |               | 59             | 54                             | -5                      |             |
|            | 32.5          | 1.70                                      | 1.60                                     |                               | 82.63                        | 255                    | 250                                 | 271                               | 56                            |               | 59             | 54                             | -5                      |             |
|            | 35            | 1.70                                      | 1.60                                     |                               | 84.55                        | 255                    | 250                                 | 270                               | 56                            |               | 59             | 54                             | -5                      |             |
| 6          | 37.5          | 1.85                                      | 1.60                                     |                               | 86.50                        | 256                    | 250                                 | 270                               | 56                            |               | 59             | 54                             | -5                      |             |
|            | 40            | 1.85                                      | 1.50                                     |                               | 88.52                        | 256                    | 250                                 | 270                               | 56                            |               | 59             | 54                             | -5                      |             |
|            | 42.5          | 1.85                                      | 1.50                                     |                               | 90.44                        | 255                    | 250                                 | 270                               | 56                            |               | 59             | 54                             | -5                      |             |
| 7          | 45            | 1.95                                      | 1.50                                     |                               | 92.44                        | 255                    | 250                                 | 265                               | 58                            |               | 60             | 54                             | -5                      |             |
|            | 47.5          | 1.95                                      | 1.50                                     |                               | 94.50                        | 257                    | 255                                 | 269                               | 58                            |               | 60             | 54                             | -5                      |             |
|            | 50            | 1.95                                      | 1.50                                     |                               | 96.50                        | 256                    | 259                                 | 269                               | 58                            |               | 60             | 54                             | -5                      |             |
| 8          | 52.5          | 1.95                                      | 1.50                                     |                               | 98.55                        | 255                    | 250                                 | 271                               | 59                            |               | 62             | 54                             | -5                      |             |
|            | 55            | 1.65                                      | 1.50                                     |                               | 100.59                       | 255                    | 250                                 | 271                               | 59                            |               | 62             | 54                             | -5                      |             |
|            | 57.5          | 1.45                                      | 1.50                                     |                               | 102.54                       | 255                    | 250                                 | 271                               | 59                            |               | 62             | 54                             | -5                      |             |
| 9          | 60            | 1.85                                      | 1.50                                     |                               | 104.35                       | 256                    | 256                                 | 270                               | 60                            |               | 64             | 51                             | -5                      |             |
|            | 62.5          | 1.40                                      | 1.50                                     |                               | 106.20                       | 256                    | 255                                 | 270                               | 60                            |               | 64             | 56                             | -5                      |             |
|            | 65            | 1.20                                      | 1.60                                     |                               | 107.99                       | 256                    | 259                                 | 270                               | 60                            |               | 64             | 56                             | -5                      |             |
| 10         | 67.5          | 1.20                                      | 1.60                                     |                               | 109.57                       | 255                    | 256                                 | 271                               | 60                            |               | 64             | 56                             | -5                      |             |
|            | 70            | 1.20                                      | 1.60                                     |                               | 111.37                       | 255                    | 256                                 | 272                               | 60                            |               | 64             | 56                             | -5                      |             |
|            | 72.5          | 1.20                                      | 1.60                                     |                               | 112.79                       | 255                    | 257                                 | 272                               | 61                            |               | 66             | 59                             | -5                      |             |
| 11         | 75            | 1.70                                      | 1.60                                     |                               | 114.64                       | 255                    | 251                                 | 273                               | 61                            |               | 66             | 59                             | -5                      |             |
|            | 77.5          | 1.10                                      | 1.60                                     |                               | 116.30                       | 255                    | 251                                 | 273                               | 62                            |               | 66             | 61                             | -5                      |             |
|            | 80            | 1.10                                      | 1.60                                     |                               | 117.89                       | 255                    | 251                                 | 273                               | 62                            |               | 66             | 61                             | -5                      |             |
| 12         | 82.5          | 1.10                                      | 1.60                                     |                               | 119.47                       | 255                    | 251                                 | 273                               | 62                            |               | 66             | 61                             | -5                      |             |
|            | 85            | 1.05                                      | 1.60                                     |                               | 121.09                       | 255                    | 251                                 | 273                               | 62                            |               | 66             | 61                             | -5                      |             |
|            | 87.5          | 1.10                                      | 1.60                                     |                               | 122.66                       | 255                    | 251                                 | 273                               | 62                            |               | 66             | 61                             | -5                      |             |
|            | 90            | 1.05                                      |                                          |                               | 124.29                       |                        |                                     |                                   |                               |               |                |                                |                         |             |

Pretest Leak Check Rate (cfm) — at — vacuum ("Hg)  
 Posttest Leak Check Rate (cfm) 0.02 at -10 vacuum ("Hg)

Leak Vol Start —  
 Leak Vol End 124.29

Leak Vol. End —  
 Leak Vol. End 124.40

Post-Pitot Check: — (< 0.1" @ 3.0" for 15 sec)

RW  
511

Date: 2025/04/08

Start Time: 1600h

Finish Time: 1700

Leak Check ☒  
Line Temp 120° C  
Filter Temp ☒  
Chiller Temp 40 C

Line Temp 120°C  
Filter Temp ✓  
Chiller Temp 4°C

Bias Criterion:  $<5\%$  of Span

| NO <sub>2</sub> Value | NO reading | NO <sub>2</sub> Reading | NO <sub>x</sub> reading |
|-----------------------|------------|-------------------------|-------------------------|
|                       |            |                         |                         |

Notes:

NO. 19350

Environ 9110  
COMPOST MIX CC700504



# CONTINUOUS EMISSION MONITORING SYSTEM CALIBRATION AND DRIFT CALIBRATION

Client: Sunc Sinter Date: 2025/04/11  
Project Number: 2509873 Start Time: 08:15  
Sample Location: KILN STACK Finish Time: 11:30

Leak Check ☒  
Line Temp 120°C  
Filter Temp ☒  
Chiller Temp 4°C

|           | O <sub>2</sub> % | CO <sub>2</sub> % | CO $\mu\text{m}$ | NO <sub>x</sub> | SO <sub>2</sub> | THC |
|-----------|------------------|-------------------|------------------|-----------------|-----------------|-----|
| Range     | 16.0             | 20.0              | 1500             |                 |                 |     |
| TIME      | 10.0             | 10.0              | 750              |                 |                 |     |
| Direct    | 25               | 30                | 2000             |                 |                 |     |
| Zero      | 0.0              | 0.0               | 0.4              |                 |                 |     |
| Low Span  |                  |                   |                  |                 |                 |     |
| Mid. Span | 10.0             | 10.0              | 752              |                 |                 |     |
| High Span | 16.0             | 20.0              | 1508             |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| System    | 0.2              | 0.1               | 0.8              |                 |                 |     |
| Zero      | 15.9             | 19.9              | 1498             |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      | 0.3              | 0.2               | -1.3             |                 |                 |     |
| Span      | 16.1             | 19.9              | 1491             |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |
| TIME      |                  |                   |                  |                 |                 |     |
| Zero      |                  |                   |                  |                 |                 |     |
| Span      |                  |                   |                  |                 |                 |     |

Drift Criterion: <3% of Span Bias Criterion: <5% of Span  
NO<sub>2</sub> Value NO reading NO<sub>2</sub> Reading NO<sub>x</sub> reading > 90%

Line Temp 120°C  
Filter Temp ☒  
Chiller Temp 4°C

Converter Check

Response Time (sec)

38

Notes:

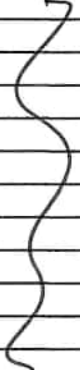
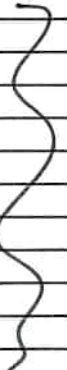
HORISA PG350

ENVIRONICS 9110  
COMBOST MIX CC700S04



## M26 Sampling

|                            |                     |                       |
|----------------------------|---------------------|-----------------------|
| Project #: 2509873         | Client: SMC STARRY  | Console ID: 303 DGM A |
| Date: 2025/04/09           | Test: ECA M26 T1-T3 | Console Y: 1.028      |
| Sample Location: KILN EXH. | RAW MILL ON         | Operator: AT          |

| Time<br>(min) | Orifice<br>Press<br>("H <sub>2</sub> O) | Meter<br>Volume<br>(L) | Meter Temp<br>(°F) |                                                                                   | Vacuum<br>(in Hg)                                                                 | Filter Box<br>Temp<br>(°F)                                                        | Probe<br>Temp<br>(°F)                                                               | Condensor<br>Temp<br>(°F)                                                           | Sampling<br>Rate<br>(L/min)                                                         |
|---------------|-----------------------------------------|------------------------|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|               |                                         |                        | Inlet              | Outlet                                                                            |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Test 1        | Start Time: 09.36                       |                        | Date: 2025/04/09   |                                                                                   |                                                                                   | Pbar: 29.0                                                                        |                                                                                     | Leak Check: ✓                                                                       |                                                                                     |
| 0             | 2.0                                     | 0.104                  | 37                 | N/A                                                                               | 1                                                                                 | N/A                                                                               | N/A                                                                                 | 33                                                                                  | 1.5                                                                                 |
| 5             | 2.0                                     | 7.7                    | 37                 |  |  |  |  | 34                                                                                  |  |
| 10            | 2.0                                     | 15                     | 38                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 34                                                                                  |                                                                                     |
| 15            | 2.0                                     | 23                     | 38                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 35                                                                                  |                                                                                     |
| 20            | 2.0                                     | 30                     | 39                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 35                                                                                  |                                                                                     |
| 25            | 2.0                                     | 38                     | 39                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 35                                                                                  |                                                                                     |
| 30            | 2.0                                     | 45                     | 40                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 35                                                                                  |                                                                                     |
| 35            | 2.0                                     | 53                     | 41                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 35                                                                                  |                                                                                     |
| 40            | 2.0                                     | 61                     | 41                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 36                                                                                  |                                                                                     |
| 45            | 2.0                                     | 68                     | 42                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 36                                                                                  |                                                                                     |
| 50            | 2.0                                     | 76                     | 43                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 36                                                                                  |                                                                                     |
| 55            | 2.0                                     | 83                     | 43                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | 36                                                                                  |                                                                                     |
| 60            | 2.0                                     | 90.962                 | 43                 |                                                                                   |  |                                                                                   | 36                                                                                  |  |                                                                                     |

Test 1 End Time: 10:36 Leak Check: ✓

|        |                   |        |                  |     |            |     |               |    |     |
|--------|-------------------|--------|------------------|-----|------------|-----|---------------|----|-----|
| Test 2 | Start Time: 12:09 |        | Date: 2025/04/09 |     | Pbar: 29.0 |     | Leak Check: ✓ |    |     |
| 0      | 2.0               | 0.230  | 46               | N/A | 1          | N/A | N/A           | 38 | 1.5 |
| 5      | 2.0               | 8      | 47               |     |            |     |               | 38 |     |
| 10     | 2.0               | 15     | 48               |     |            |     |               | 39 |     |
| 15     | 2.0               | 23     | 48               |     |            |     |               | 39 |     |
| 20     | 2.0               | 30     | 48               |     |            |     |               | 40 |     |
| 25     | 2.0               | 37     | 49               |     |            |     |               | 40 |     |
| 30     | 2.0               | 45     | 49               |     |            |     |               | 40 |     |
| 35     | 2.0               | 52     | 50               |     |            |     |               | 40 |     |
| 40     | 2.0               | 60     | 52               |     |            |     |               | 40 |     |
| 45     | 2.0               | 67     | 52               |     |            |     |               | 41 |     |
| 50     | 2.0               | 74     | 53               |     |            |     |               | 41 |     |
| 55     | 2.0               | 82     | 54               |     |            |     |               | 42 |     |
| 60     | 2.0               | 89.438 | 55               |     |            |     |               | 42 |     |

Test 2 End Time: 13:09 Leak Check: ✓

|        |                   |        |                  |     |            |     |               |    |     |
|--------|-------------------|--------|------------------|-----|------------|-----|---------------|----|-----|
| Test 3 | Start Time: 13:22 |        | Date: 2025/04/09 |     | Pbar: 29.0 |     | Leak Check: ✓ |    |     |
| 0      | 2.0               | 0.335  | 56               | N/A | 1          | N/A | N/A           | 40 | 1.5 |
| 5      | 2.0               | 8      | 57               |     |            |     |               | 40 |     |
| 10     | 2.0               | 15     | 56               |     |            |     |               | 40 |     |
| 15     | 2.0               | 23     | 55               |     |            |     |               | 40 |     |
| 20     | 2.0               | 30     | 54               |     |            |     |               | 40 |     |
| 25     | 2.0               | 38     | 53               |     |            |     |               | 39 |     |
| 30     | 2.0               | 45     | 53               |     |            |     |               | 39 |     |
| 35     | 2.0               | 53     | 53               |     |            |     |               | 39 |     |
| 40     | 2.0               | 60     | 53               |     |            |     |               | 38 |     |
| 45     | 2.0               | 68     | 52               |     |            |     |               | 38 |     |
| 50     | 2.0               | 76     | 52               |     |            |     |               | 38 |     |
| 55     | 2.0               | 83     | 51               |     |            |     |               | 38 |     |
| 60     | 2.0               | 90.474 | 51               |     |            |     |               | 38 |     |

Test 3 End Time: 14:22 Leak Check: ✓



# NCASI 98.01 Sampling

|                               |                        |                         |
|-------------------------------|------------------------|-------------------------|
| Project #: 2509873            | Client: SMC St. Mary's | Console ID : 308-A DUMA |
| Date: 11-Apr-2025             | Test: 98-01 T1-T3      | Console Y : 1-028       |
| Sample Location: Kiln Exhaust |                        | Operator : PB, MS, AT   |

| Time (min) | Orifice Press ("H <sub>2</sub> O) | Meter Volume (L)  | Meter Temp (°C)/(°F) |               | Vacuum (in Hg) | Condensor Temp (°C)/(°F) | Sampling Rate (L/min) |  |
|------------|-----------------------------------|-------------------|----------------------|---------------|----------------|--------------------------|-----------------------|--|
|            |                                   |                   | Inlet                | Outlet        |                |                          |                       |  |
| Test 1     | Start Time: 8:09                  | Date: 11-Apr-2025 | Pbar: 28.91          | Leak Check: ✓ |                |                          |                       |  |
| 0          | 0                                 | 0                 | 57                   | 57            | 0              | 32                       | 1.0                   |  |
| 5          | 1.0                               | 5.10              | 57                   | 57            |                | 32                       |                       |  |
| 10         | 1.0                               | 10.07             | 57                   | 57            |                | 32                       |                       |  |
| 15         | 1.0                               | 15.13             | 57                   | 57            |                | 32                       |                       |  |
| 20         | 1.0                               | 20.16             | 58                   | 58            |                | 32                       |                       |  |
| 25         | 1.0                               | 25.22             | 58                   | 58            |                | 32                       |                       |  |
| 30         | 1.0                               | 30.27             | 59                   | 59            |                | 32                       |                       |  |
| 35         | 1.0                               | 35.30             | 59                   | 59            |                | 32                       |                       |  |
| 40         | 1.0                               | 40.34             | 59                   | 59            |                | 33                       |                       |  |
| 45         | 1.0                               | 45.37             | 59                   | 59            |                | 33                       |                       |  |
| 50         | 1.0                               | 50.41             | 59                   | 59            |                | 33                       |                       |  |
| 55         | 1.0                               | 55.58             | 59                   | 59            |                | 33                       |                       |  |
| 60         | 1.0                               | 60.50             | 60                   | 60            |                | 34                       |                       |  |

|        |                |               |
|--------|----------------|---------------|
| Test 1 | End Time: 9:09 | Leak Check: ✓ |
|--------|----------------|---------------|

|        |                  |                  |             |               |   |    |         |  |
|--------|------------------|------------------|-------------|---------------|---|----|---------|--|
| Test 2 | Start Time: 9:36 | Date: 2025/04/11 | Pbar: 28.91 | Leak Check: ✓ |   |    |         |  |
| 0      | 0                | 0                | 60          | 60            | 0 | 32 | 1.0     |  |
| 5      | 1.0              | 5.42             | 60          | 60            |   | 33 |         |  |
| 10     | 1.0              | 10.84            | 60          | 60            |   | 33 |         |  |
| 15     | 1.0              | 16.31            | 60          | 60            |   | 33 |         |  |
| 20     | 1.0              | 21.67            | 61          | 61            |   | 33 |         |  |
| 25     | 1.0              | 27.07            | 61          | 61            |   | 33 |         |  |
| 30     | 1.0              | 32.52            | 61          | 61            |   | 34 |         |  |
| 35     | 1.0              | 37.97            | 61          | 61            |   | 34 |         |  |
| 40     | 1.0              | 43.36            | 61          | 61            |   | 34 |         |  |
| 45     | 1.0              | 48.76            | 61          | 61            |   | 34 |         |  |
| 50     | 1.0              | 54.21            | 61          | 61            |   | 34 |         |  |
| 55     | 1.0              | 59.59            | 61          | 61            |   | 34 |         |  |
| 60     | 1.0              | 65.032           | 62          | 62            |   | 34 | 0.5 1.0 |  |

|        |                 |               |
|--------|-----------------|---------------|
| Test 2 | End Time: 10:36 | Leak Check: ✓ |
|--------|-----------------|---------------|

|        |                   |                  |             |               |   |    |     |  |
|--------|-------------------|------------------|-------------|---------------|---|----|-----|--|
| Test 3 | Start Time: 10:55 | Date: 2025/04/11 | Pbar: 28.91 | Leak Check: ✓ |   |    |     |  |
| 0      | 1.0               | 0.024            | 62          | 62            | 0 | 34 | 1.0 |  |
| 5      | 1.0               | 5.17             | 62          | 62            |   | 34 |     |  |
| 10     | 1.0               | 10.46            | 62          | 62            |   | 34 |     |  |
| 15     | 1.0               | 15.48            | 63          | 63            |   | 34 |     |  |
| 20     | 1.0               | 20.64            | 63          | 63            |   | 34 |     |  |
| 25     | 1.0               | 25.91            | 63          | 63            |   | 34 |     |  |
| 30     | 1.0               | 31.04            | 63          | 63            |   | 34 |     |  |
| 35     | 1.0               | 36.22            | 63          | 63            |   | 34 |     |  |
| 40     | 1.0               | 41.39            | 63          | 63            |   | 34 |     |  |
| 45     | 1.0               | 46.58            | 63          | 63            |   | 34 |     |  |
| 50     | 1.0               | 51.40            | 63          | 63            |   | 34 |     |  |
| 55     | 1.0               | 56.99            | 63          | 63            |   | 34 |     |  |
| 60     | 1.0               | 62.08            | 63          | 63            |   | 34 | 1.0 |  |

|        |                 |               |
|--------|-----------------|---------------|
| Test 3 | End Time: 11:55 | Leak Check: ✓ |
|--------|-----------------|---------------|



# NCASI A105 Sampling

|                               |                        |                         |
|-------------------------------|------------------------|-------------------------|
| Project #: 2509873            | Client: SMC St. Mary's | Console ID : 308-A 04MB |
| Date: 11-Apr-2025             | Test: A105 T-2T3       | Console Y: 1.025        |
| Sample Location: Kiln Exhaust |                        | Operator: PB MB, AT     |

| Time (min) | Orifice Press ("H <sub>2</sub> O) | Meter Volume (L) | Meter Temp (°C)/(°F) |               | Vacuum (in Hg) | Condensor Temp (°C)/(°F) | Sampling Rate (L/min) |  |
|------------|-----------------------------------|------------------|----------------------|---------------|----------------|--------------------------|-----------------------|--|
|            |                                   |                  | Inlet                | Outlet        |                |                          |                       |  |
| Test 1     | Start Time: 8:09                  | Date: 2025/04/11 | Pbar: 28.91          | Leak Check: ✓ |                |                          |                       |  |
| 0          | 0                                 | 0                | 58                   | 58            | 0              | 33                       | 0.5                   |  |
| 5          | 2.0                               | 2.32             |                      | 58            |                | 33                       |                       |  |
| 10         | 2.0                               | 5.09             |                      | 58            |                | 33                       |                       |  |
| 15         | 2.0                               | 7.54             |                      | 59            |                | 33                       |                       |  |
| 20         | 2.0                               | 10.07            |                      | 59            |                | 34                       |                       |  |
| 25         | 2.0                               | 12.60            |                      | 59            |                | 34                       |                       |  |
| 30         | 2.0                               | 15.05            |                      | 59            |                | 33                       |                       |  |
| 35         | 2.0                               | 17.60            |                      | 60            |                | 34                       |                       |  |
| 40         | 2.0                               | 20.14            |                      | 60            |                | 34                       |                       |  |
| 45         | 2.0                               | 22.59            |                      | 60            |                | 35                       |                       |  |
| 50         | 2.0                               | 25.14            |                      | 60            |                | 35                       |                       |  |
| 55         | 2.0                               | 27.64            |                      | 60            |                | 35                       |                       |  |
| 60         | 2.0                               | 30.15            | 61                   | 61            |                | 35                       |                       |  |

|        |                |               |
|--------|----------------|---------------|
| Test 1 | End Time: 9:09 | Leak Check: ✓ |
|--------|----------------|---------------|

|        |                  |                  |             |               |   |    |     |  |
|--------|------------------|------------------|-------------|---------------|---|----|-----|--|
| Test 2 | Start Time: 9:36 | Date: 2025/04/11 | Pbar: 28.91 | Leak Check: ✓ |   |    |     |  |
| 0      | 0                | 0                |             | 60            | 0 | 33 | 0.5 |  |
| 5      | 2.0              | 2.80             |             | 60            |   | 33 |     |  |
| 10     | 2.0              | 5.58             |             | 60            |   | 33 |     |  |
| 15     | 2.0              | 8.40             |             | 60            |   | 33 |     |  |
| 20     | 2.0              | 11.21            |             | 60            |   | 33 |     |  |
| 25     | 2.0              | 13.99            |             | 61            |   | 33 |     |  |
| 30     | 2.0              | 16.75            |             | 61            |   | 33 |     |  |
| 35     | 2.0              | 19.59            |             | 61            |   | 33 |     |  |
| 40     | 2.0              | 22.38            |             | 62            |   | 33 |     |  |
| 45     | 2.0              | 25.22            |             | 62            |   | 33 |     |  |
| 50     | 2.0              | 27.98            |             | 62            |   | 34 |     |  |
| 55     | 2.0              | 30.69            |             | 62            |   | 34 |     |  |
| 60     | 2.0              | 33.528           |             | 62            |   | 34 | 0.5 |  |

|        |                 |               |
|--------|-----------------|---------------|
| Test 2 | End Time: 10:36 | Leak Check: ✓ |
|--------|-----------------|---------------|

|        |                   |                  |             |               |   |    |     |  |
|--------|-------------------|------------------|-------------|---------------|---|----|-----|--|
| Test 3 | Start Time: 10:55 | Date: 2025/04/11 | Pbar: 28.91 | Leak Check: ✓ |   |    |     |  |
| 0      | 0                 | 6.024            |             | 63            | 0 | 34 | 0.5 |  |
| 5      | 2.0               | 7.71             |             | 63            |   | 34 |     |  |
| 10     | 2.0               | 8.33             |             | 63            |   | 34 |     |  |
| 15     | 2.0               | 7.99             |             | 63            |   | 35 |     |  |
| 20     | 2.0               | 11.57            |             | 63            |   | 34 |     |  |
| 25     | 2.0               | 13.27            |             | 64            |   | 34 |     |  |
| 30     | 2.0               | 15.93            |             | 64            |   | 34 |     |  |
| 35     | 2.0               | 18.56            |             | 63            |   | 34 |     |  |
| 40     | 2.0               | 21.28            |             | 65            |   | 35 |     |  |
| 45     | 2.0               | 23.88            |             | 65            |   | 35 |     |  |
| 50     | 2.0               | 26.52            |             | 65            |   | 34 |     |  |
| 55     | 2.0               | 29.17            |             | 65            |   | 34 |     |  |
| 60     | 2.0               | 31.823           |             | 65            |   | 34 | 0.5 |  |

|        |                 |               |
|--------|-----------------|---------------|
| Test 3 | End Time: 11:55 | Leak Check: ✓ |
|--------|-----------------|---------------|



# VOST Sampling

|                               |                        |                           |
|-------------------------------|------------------------|---------------------------|
| Project #: 2509873            | Client: SMC St. Mary's | Console ID : 303(A) D9M B |
| Date: 2025/04/08-09           | Test: VOST T1-T3       | Console Y : 1.025         |
| Sample Location: Kiln Exhaust | Operator : AT          |                           |

| Time (min) | Orifice Press ("H <sub>2</sub> O) | Meter Volume (L) | Meter Temp (°C)/(°F) |          | Vacuum (in Hg) | Condensor Temp (°C)/(°F) | Sampling Rate (L/min) |  |
|------------|-----------------------------------|------------------|----------------------|----------|----------------|--------------------------|-----------------------|--|
|            |                                   |                  | Inlet                | Outlet   |                |                          |                       |  |
| Test 1     | Start Time: 11:27                 | Date: 2025/04/09 | Pbar: 28.72          | Pair ID: |                | Leak Check: ✓            |                       |  |
| 0          | 0.6                               | 0.136            | 35                   | N/A      | 0              | 37                       | 0.25                  |  |
| 5          | 0.6                               | 1.8              | 35                   |          |                | 36                       |                       |  |
| 10         | 0.6                               | 3.5              | 35                   |          |                | 36                       |                       |  |
| 15         | 0.6                               | 5.1              | 35                   |          |                | 36                       |                       |  |
| 20         | 0.6                               | 6.8              | 35                   |          |                | 36                       |                       |  |
| 25         | 0.6                               | 8.5              | 35                   |          |                | 36                       |                       |  |
| 30         | 0.6                               | 10.2             | 34                   |          |                | 35                       |                       |  |
| 35         | 0.6                               | 11.8             | 34                   |          |                | 35                       |                       |  |
| 40         | 0.6                               | 13.5             | 34                   |          |                | 36                       |                       |  |
| 45         | 0.6                               | 15.2             | 34                   |          |                | 36                       |                       |  |
| 50         | 0.6                               | 16.8             | 34                   |          |                | 36                       |                       |  |
| 55         | 0.6                               | 18.5             | 34                   |          |                | 36                       |                       |  |
| 60         | 0.6                               | 20.172           | 34                   |          |                | 36                       |                       |  |

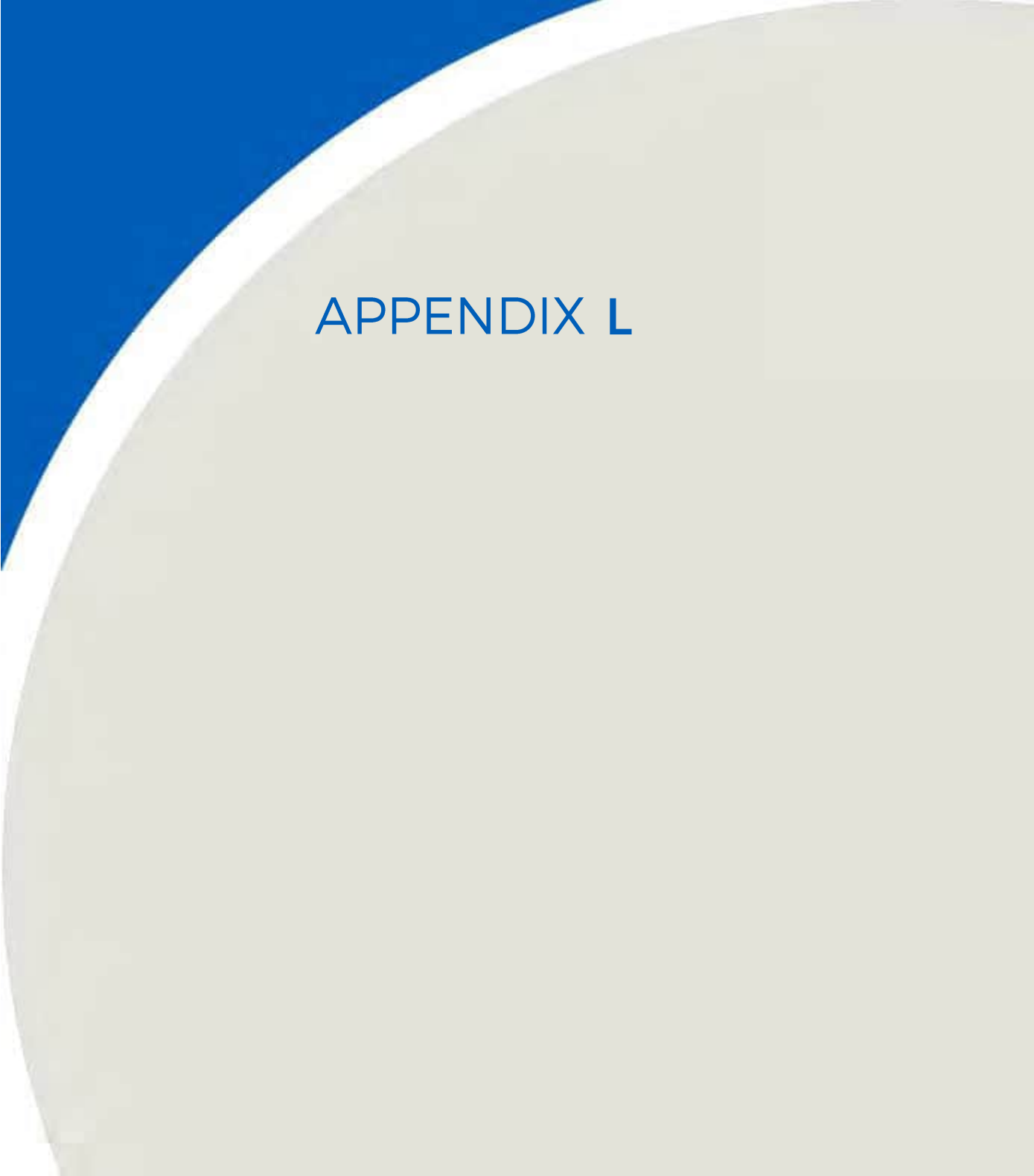
Test 1 End Time: 12:27 Leak Check: ✓

|        |                   |                  |             |          |   |               |      |  |
|--------|-------------------|------------------|-------------|----------|---|---------------|------|--|
| Test 2 | Start Time: 13:09 | Date: 2025/04/09 | Pbar: 28.72 | Pair ID: |   | Leak Check: ✓ |      |  |
| 0      | 0.6               | 0.127            | 35          | N/A      | 0 | 38            | 0.25 |  |
| 5      | 0.6               | 1.8              | 35          |          |   | 38            |      |  |
| 10     | 0.6               | 3.4              | 35          |          |   | 38            |      |  |
| 15     | 0.6               | 5.1              | 35          |          |   | 38            |      |  |
| 20     | 0.6               | 6.7              | 35          |          |   | 38            |      |  |
| 25     | 0.6               | 8.4              | 36          |          |   | 37            |      |  |
| 30     | 0.6               | 10.0             | 36          |          |   | 37            |      |  |
| 35     | 0.6               | 11.7             | 36          |          |   | 37            |      |  |
| 40     | 0.6               | 13.3             | 36          |          |   | 37            |      |  |
| 45     | 0.6               | 15.0             | 36          |          |   | 37            |      |  |
| 50     | 0.6               | 16.6             | 36          |          |   | 37            |      |  |
| 55     | 0.6               | 18.3             | 36          |          |   | 37            |      |  |
| 60     | 0.6               | 19.936           | 36          |          |   | 38            |      |  |

Test 2 End Time: 14:09 Leak Check: ✓

|        |                   |                  |            |          |   |               |      |  |
|--------|-------------------|------------------|------------|----------|---|---------------|------|--|
| Test 3 | Start Time: 11:39 | Date: 2025/04/09 | Pbar: 29.0 | Pair ID: |   | Leak Check: ✓ |      |  |
| 0      | 0.6               | 0.112            | 47         | N/A      | 0 | 33            | 0.25 |  |
| 5      | 0.6               | 1.8              | 48         |          |   | 33            |      |  |
| 10     | 0.6               | 3.4              | 47         |          |   | 33            |      |  |
| 15     | 0.6               | 5.1              | 50         |          |   | 34            |      |  |
| 20     | 0.6               | 6.7              | 51         |          |   | 34            |      |  |
| 25     | 0.6               | 8.4              | 51         |          |   | 34            |      |  |
| 30     | 0.6               | 10.1             | 52         |          |   | 34            |      |  |
| 35     | 0.6               | 11.7             | 53         |          |   | 35            |      |  |
| 40     | 0.6               | 13.4             | 54         |          |   | 35            |      |  |
| 45     | 0.6               | 15.0             | 55         |          |   | 35            |      |  |
| 50     | 0.6               | 16.7             | 56         |          |   | 35            |      |  |
| 55     | 0.6               | 18.4             | 57         |          |   | 35            |      |  |
| 60     | 0.6               | 20.009           | 57         |          |   | 35            |      |  |

Test 3 End Time: 12:39 Leak Check: ✓

A large decorative graphic on the left side of the page, featuring a blue triangle at the top left, a white curved line, and a large light gray semi-circle.

# APPENDIX L

| Condition 11 ECA 6394-D78PR2- Source Testing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                   |               |          |                   |          |                        |               |    |                          |               |    |                          |               |    |                        |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|---------------|----------|-------------------|----------|------------------------|---------------|----|--------------------------|---------------|----|--------------------------|---------------|----|------------------------|---------------|
| <p>Condition 11 of ECA 6394-D78PR2 requires that the facility shall perform source testing in accordance with the procedure in Schedule G....</p> <p>11a. Source testing shall be conducted no later than twelve months from the date of commencement of operation at the Alternative Low Carbon Fuels up to 175 tons per day</p> <p>Use of ALCF on site commenced on May 9, 2024</p> <p>Source Testing was performed between April 6 and 11, 2025</p> <p>G. 1. The company shall submit 3 months prior to the source testing a pre test plan for the Soure Testing.</p> <p>The Pretest Plan was submitted to the MECP on January 10, 2025</p> <p>The MECP completed review of the Pretest Plan on January 28, 2025</p> <p>G.5.3 The company shall submit records of operating conditions at the time of Source Testing and other</p> <p>3. records of operating conditions at the time of Source Testing and other information including but not limited to:</p> <p>a. an executive summary</p> <p>b. a summary of the results of the fuel analysis program specified in Condition 8.9 of this Approval;</p> <p>c. a summary of records specified in condition 8.11 of this Approval and records of operating conditions at the time of Source Testing, including but not limited to:</p> <p>i. Clinker production rate in tonnes/hour</p> <p>ii. Conventional Fuels fired in the Cement Kiln in tonnes/hour</p> <p>iii. Each category of the Alternative Low-Carbon Fuels described in condition 7.1 of the Approval fired in the Cement Kiln in tonnes/day;</p> <p>iv. Fuel Adjunct Material and Industrial By-Product Material input into the Cement Kiln in tonnes/day;</p> <p>d. any other records that may affect the Source Testing results.</p> <p>4. A summary of all records of the CEM System and CPM System for the parameters specified in Condition 10 of this Approval at the time of Source Testing;</p> <p>5. A summary table that compares the Source Testing results to the emission estimates described in the Company's application, the ESDM Report and the Performance Limits;</p> <p>The periods of Source Testing are as follows;</p> <table><tr><th>Test Period #</th><th>Date</th><th>Daily Test Period</th></tr><tr><td>T1</td><td>Tuesday, April 8, 2025</td><td>09:37 - 15:30</td></tr><tr><td>T2</td><td>Wednesday, April 9, 2025</td><td>08:07 - 14:53</td></tr><tr><td>T3</td><td>Thursday, April 10, 2025</td><td>07:31 - 18:21</td></tr><tr><td>T4</td><td>Friday, April 11, 2025</td><td>08:09 - 11:55</td></tr></table> |                          |                   | Test Period # | Date     | Daily Test Period | T1       | Tuesday, April 8, 2025 | 09:37 - 15:30 | T2 | Wednesday, April 9, 2025 | 08:07 - 14:53 | T3 | Thursday, April 10, 2025 | 07:31 - 18:21 | T4 | Friday, April 11, 2025 | 08:09 - 11:55 |
| Test Period #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date                     | Daily Test Period |               |          |                   |          |                        |               |    |                          |               |    |                          |               |    |                        |               |
| T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tuesday, April 8, 2025   | 09:37 - 15:30     |               |          |                   |          |                        |               |    |                          |               |    |                          |               |    |                        |               |
| T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Wednesday, April 9, 2025 | 08:07 - 14:53     |               |          |                   |          |                        |               |    |                          |               |    |                          |               |    |                        |               |
| T3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Thursday, April 10, 2025 | 07:31 - 18:21     |               |          |                   |          |                        |               |    |                          |               |    |                          |               |    |                        |               |
| T4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Friday, April 11, 2025   | 08:09 - 11:55     |               |          |                   |          |                        |               |    |                          |               |    |                          |               |    |                        |               |
| <table><tr><td>Start Date</td><td>4/7/2025</td><td>4/7/2025</td></tr><tr><td>End Date</td><td>4/12/2025</td><td>4/12/2025</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          |                   | Start Date    | 4/7/2025 | 4/7/2025          | End Date | 4/12/2025              | 4/12/2025     |    |                          |               |    |                          |               |    |                        |               |
| Start Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4/7/2025                 | 4/7/2025          |               |          |                   |          |                        |               |    |                          |               |    |                          |               |    |                        |               |
| End Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4/12/2025                | 4/12/2025         |               |          |                   |          |                        |               |    |                          |               |    |                          |               |    |                        |               |

EXTERNAL EMAIL / EMAIL EXTERNO / COURRIEL EXTERNE  
Hi Kara,

Please find below a note of the testing periods from last weeks stack testing.  
Appreciate if you could collate and share the relevant plant operating conditions.

| Date                     | Daily Test Period | Type of Test |
|--------------------------|-------------------|--------------|
| Tuesday, April 8, 2025   | 09:37 - 15:30     | Compliance   |
| Wednesday, April 9, 2025 | 08:07 - 14:53     | Compliance   |
| Thursday, April 10, 2025 | 07:31 - 18:21     | Corporate    |
| Friday, April 11, 2025   | 08:09 - 11:55     | Compliance   |

Thanks,



**Adam Tran** | Senior Scientist Engineer, Source Testing  
RWDI  
Climate & Performance Engineering  
600 Southgate Drive, Guelph, ON N1G 4P6 Canada  
C: +1 226-337-3778 | E: [adam.tran@rwdi.com](mailto:adam.tran@rwdi.com) | [rwdi.com](http://rwdi.com)

*Climate and performance expertise. When you need it.*

**From:** Kara Pelissero  
**Sent:** Friday, April 4, 2025 9:16 AM  
**To:** Adam Tran  
**Cc:** Karri Legarrie; Oluwatobi Odumoye; Matthew Bradley; Sydney Meunier; Preet Bhamrah  
**Subject:** RE: Source Testing week of April 7, 2025

## 11. SOURCE TESTING

### 1. REGULAR ALCF USE (Main Burner)

- a. The Company shall perform Source Testing in accordance with the procedure in Schedule G to determine the rate of emission of the test contaminants from the sources specified in Schedule H. Source Testing shall be conducted not later than twelve (12) months from the date of commencement of operation of the Alternative Low-Carbon Fuels feed equipment which permits the use of Alternative Low-Carbon Fuels up to 175 tonnes per day, or within a time frame as directed or agreed to in writing by the District Manager.
- b. The Company shall notify the District Manager in writing of the details of the installed equipment, date of installation and date of commencement of operation of the Alternative Low-Carbon Fuels feed equipment which permits the use of Alternative Low-Carbon Fuels up to 175 tonnes per day within two (2) weeks of the installation and the commencement of operation.
- c. In addition to Source Testing required under Conditions 11.1.a of this Approval, Source Testing shall be repeated once every calendar year in accordance with the procedure in Schedule G to determine the rate of emission of the test contaminants from the sources specified in Schedule H. Annual Source Testing is not required to be conducted in the year in which Source Testing required under Condition 11.1 was conducted.

- d. The Source Testing required under Conditions 11.1.a and 11.1.c of this Approval shall include, as a minimum, the rates of emissions of the test contaminants from the Cement Kiln stack, when the Cement Kiln is co-fired with Conventional Fuels and Alternative Low-Carbon Fuels, at an Alternative Low-Carbon Fuels maximum approved firing rate of 175 tonnes per day, or at a firing rate agreed to in writing by the Manager, subject to the condition that operational checks of the Cement Kiln are accepted by the Company. The Alternative Low-Carbon Fuels used during the Source Testing shall contain a representative blend of the Alternative Low-Carbon Fuels approved under Condition 7 of this Approval, with considerations of the market availability of Alternative Low-Carbon Fuels types and quantities at the time of Source Testing. The blend (s) of Alternative Low-Carbon Fuels and quantity proposed to be used for the Source Testing shall be submitted along with the Pre-Test Plan to the Manager and the Director for approval, along with the details regarding the process for selection of the Alternative Low-Carbon Fuels blend (s) and quantity for Source Testing.

## SCHEDULE G

### PROCEDURE FOR SOURCE TESTING

1. The Company shall submit, not later than three (3) months prior to the Source Testing required under Conditions 11.1.a, 11.1.e, and 11.2.a of this Approval, a Pre-Test Plan for the Source Testing required under this Approval to the Manager and the Director. In addition to the required information, the Pre-Test plan shall also include information on the blend (s) of Alternative Low-Carbon Fuels and quantity proposed to be used for the Source Testing, along with details regarding the process for selection of the Alternative Low-Carbon Fuels blend (s) and quantity for Source Testing. The Company shall finalize the Pre-Test Plan in consultation with the Manager and the Director.
2. The Company shall not commence the Source Testing until the Manager has accepted the Pre-Test Plan.
3. For subsequent Source Testing under Condition 11.1.c of this Approval:
  1. The Company shall submit either a written notification of intent to use a previously approved Pre-Test Plan (with version reference if there were more than one (1) previously approved Pre-Test Plan), or a new Pre-Test Plan, to the Manager and Director not later than three (3) months of the planned date of the Source Testing for approval. The written notification or the new Pre-Test Plan shall also include information on the blend (s) of Alternative Low-Carbon Fuel and the quantity proposed to be used for the Source Testing, along with details regarding the process for selection of the blend (s) for Source Testing for its finalization in consultation with the Manager and the Director.
  2. If the Company submitted a written notification of intent to use a previously approved Pre-Test Plan, the Manager may either accept the use of a previously approved Pre-Test Plan, or request the submission of a new Pre-Test Plan for approval. The Company shall submit the requested new Pre-Test Plan within two (2) months after the Manager requested the submission.
  3. The Company shall complete the subsequent Source Testing no later than three (3) months after the Manager has either agreed with the written notification or approved the new Pre-Test Plan.
4. The Company shall notify the District Manager, the Manager and the Director in writing of the location, date and time of any impending Source Testing required by this Approval, at least fifteen (15) days prior to the Source Testing.
5. The Company shall submit a report (hardcopy and electronic format) on the Source Testing to the Manager and the District Manager not later than four (4) months after completing the Source Testing, or not later than a time frame agreed in writing with the Manager. The report shall be in the format described in the Source Testing Code, and shall also include, but not be limited to:
  1. an executive summary;
  2. results of Source Testing, including the emission rate, emission concentration and relevant emission factor of the Test Contaminants;

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3. records of operating conditions at the time of Source Testing and other information including but not limited to:
  - a. an executive summary
  - b. a summary of the results of the fuel analysis program specified in Condition 8.9 of this Approval;
  - c. a summary of records specified in condition 8.11 of this Approval and records of operating conditions at the time of Source Testing, including but not limited to:
    - i. Clinker production rate in tonnes/hour
    - ii. Conventional Fuels fired in the Cement Kiln in tonnes/hour
    - iii. Each category of the Alternative Low-Carbon Fuels described in condition 7.1 of the Approval fired in the Cement Kiln in tonnes/day;
    - iv. Fuel Adjunct Material and Industrial By-Product Material input into the Cement Kiln in tonnes/day;

- d. any other records that may affect the Source Testing results.
4. A summary of all records of the CEM System and CPM System for the parameters specified in Condition 10 of this Approval at the time of Source Testing;
5. A summary table that compares the Source Testing results to the emission estimates described in the Company's application, the ESDM Report and the Performance Limits;
6. The Director may not accept the results of the Source Testing if:
  1. the Source Testing Code or the requirements of the Manager were not followed;
  2. the Company did not notify the District Manager, the Manager and the Director of the Source Testing; or
  3. the Company failed to provide a complete report on the Source Testing.
7. If the Director does not accept the results of the Source Testing, the Director may require re-testing. If re-testing is required, the Pre-Test Plan strategies need to be revised and submitted to the Manager for approval. The actions taken to minimize the possibility of the Source Testing results not being accepted by the Director must be noted in the revision.
8. If the Source Testing results are higher than the emission estimates in the Company's ESDM Report, the Company shall update their ESDM Report in accordance with Section 26 of O. Reg. 419/05 with the results from the Source Testing report and make these records available for review by staff of the Ministry upon request. The updated Emission Summary Table from the updated ESDM Report shall be submitted with the report on the Source Testing.
9. The Company shall ensure that the above mentioned Source Testing report is made available and easily accessible for review by the public at the Facility immediately after the document is submitted to the Ministry.

|                    |                                    |                        |
|--------------------|------------------------------------|------------------------|
|                    | 4/7/2025                           |                        |
|                    | 4/13/2025                          |                        |
|                    | Schedule G.5.3.C.i                 | Schedule G.5.3.C.ii    |
|                    | Clinker Production in              | Conventional Fuel in   |
|                    | tons / hour                        | the kiln in ton/hour   |
| STM Pi Tag         | \\stmcntpi\W1U06F1.Filtered<br>VAL | \\stmcntpi\K1W01F1.VAL |
| 07-Apr-25 00:00:00 | 71.58494152                        | 8.234735631            |
| 07-Apr-25 01:00:00 | 77.92561436                        | 8.238128284            |
| 07-Apr-25 02:00:00 | 72.51704712                        | 8.238805195            |
| 07-Apr-25 03:00:00 | 72.64948491                        | 8.235101305            |
| 07-Apr-25 04:00:00 | 78.53380912                        | 8.234877605            |
| 07-Apr-25 05:00:00 | 89.7496677                         | 8.256165153            |
| 07-Apr-25 06:00:00 | 77.71327146                        | 8.34351475             |
| 07-Apr-25 07:00:00 | 83.32190294                        | 8.313808313            |
| 07-Apr-25 08:00:00 | 77.63418388                        | 7.334056778            |
| 07-Apr-25 09:00:00 | 66.17801242                        | 6.799351643            |
| 07-Apr-25 10:00:00 | 75.23416276                        | 6.852057184            |
| 07-Apr-25 11:00:00 | 70.30199983                        | 7.013532174            |
| 07-Apr-25 12:00:00 | 81.20303553                        | 7.488035715            |
| 07-Apr-25 13:00:00 | 84.72433363                        | 8.591447768            |
| 07-Apr-25 14:00:00 | 99.15939797                        | 8.299407653            |
| 07-Apr-25 15:00:00 | 60.70599035                        | 7.716945621            |
| 07-Apr-25 16:00:00 | 52.72679589                        | 8.093464401            |
| 07-Apr-25 17:00:00 | 67.66571368                        | 8.088766067            |
| 07-Apr-25 18:00:00 | 104.5634757                        | 8.147440346            |
| 07-Apr-25 19:00:00 | 79.04188766                        | 8.549760292            |
| 07-Apr-25 20:00:00 | 67.56234818                        | 9.087925422            |
| 07-Apr-25 21:00:00 | 83.74471956                        | 9.098150602            |
| 07-Apr-25 22:00:00 | 104.3250716                        | 9.111886304            |
| 07-Apr-25 23:00:00 | 67.20133097                        | 9.18357101             |
| 08-Apr-25 00:00:00 | 90.84663672                        | 9.182501401            |
| 08-Apr-25 01:00:00 | 74.65983364                        | 9.178274253            |
| 08-Apr-25 02:00:00 | 85.97394855                        | 9.176468781            |
| 08-Apr-25 03:00:00 | 78.86198985                        | 7.784294251            |
| 08-Apr-25 04:00:00 | 67.12721125                        | 6.293020871            |
| 08-Apr-25 05:00:00 | 96.55495071                        | 6.032624934            |
| 08-Apr-25 06:00:00 | 105.8397953                        | 5.378428438            |
| 08-Apr-25 07:00:00 | 56.84608058                        | 5.65147637             |
| 08-Apr-25 08:00:00 | 84.55797545                        | 6.457523723            |
| 08-Apr-25 09:00:00 | 59.57942271                        | 5.502799303            |
| 08-Apr-25 10:00:00 | 68.12453751                        | 5.459745975            |
| 08-Apr-25 11:00:00 | 66.71574695                        | 5.108827225            |
| 08-Apr-25 12:00:00 | 65.60604901                        | 4.947667493            |
| 08-Apr-25 13:00:00 | 68.45838928                        | 4.939518595            |
| 08-Apr-25 14:00:00 | 71.51419201                        | 4.960125853            |
| 08-Apr-25 15:00:00 | 64.29938316                        | 7.720286439            |
| 08-Apr-25 16:00:00 | 72.65248326                        | 8.278622583            |
| 08-Apr-25 17:00:00 | 66.62071404                        | 5.918805121            |
| 08-Apr-25 18:00:00 | 77.46606954                        | 5.807044171            |
| 08-Apr-25 19:00:00 | 88.64822734                        | 6.067142875            |
| 08-Apr-25 20:00:00 | 79.71840954                        | 6.181897154            |
| 08-Apr-25 21:00:00 | 77.74824348                        | 5.981627358            |
| 08-Apr-25 22:00:00 | 65.49962807                        | 5.433346343            |
| 08-Apr-25 23:00:00 | 73.6047422                         | 4.377943616            |
| 09-Apr-25 00:00:00 | 98.87156767                        | 4.203904802            |
| 09-Apr-25 01:00:00 | 125.7953707                        | 4.219010138            |
| 09-Apr-25 02:00:00 | 72.83921574                        | 4.380162932            |
| 09-Apr-25 03:00:00 | 87.47778072                        | 4.381822975            |
| 09-Apr-25 04:00:00 | 58.52935886                        | 4.594374473            |
| 09-Apr-25 05:00:00 | 79.32111664                        | 4.679586644            |
| 09-Apr-25 06:00:00 | 67.62438883                        | 4.823863132            |
| 09-Apr-25 07:00:00 | 77.53904368                        | 4.902334152            |
| 09-Apr-25 08:00:00 | 58.73643848                        | 4.885894367            |
| 09-Apr-25 09:00:00 | 59.01665592                        | 4.887428612            |
| 09-Apr-25 10:00:00 | 72.03612276                        | 4.804718141            |
| 09-Apr-25 11:00:00 | 71.9599977                         | 4.634924228            |
| 09-Apr-25 12:00:00 | 56.19713419                        | 4.809994077            |
| 09-Apr-25 13:00:00 | 65.67840958                        | 4.803058279            |
| 09-Apr-25 14:00:00 | 74.972753                          | 4.460903118            |
| 09-Apr-25 15:00:00 | 69.04594595                        | 4.432707369            |
| 09-Apr-25 16:00:00 | 94.06303406                        | 4.433430685            |
| 09-Apr-25 17:00:00 | 94.56149292                        | 4.434768464            |
| 09-Apr-25 18:00:00 | 84.89394972                        | 4.514705765            |
| 09-Apr-25 19:00:00 | 74.67111884                        | 4.962676498            |

|                    |             |             |
|--------------------|-------------|-------------|
| 09-Apr-25 20:00:00 | 94.90962102 | 5.057894296 |
| 09-Apr-25 21:00:00 | 81.07897949 | 5.230684198 |
| 09-Apr-25 22:00:00 | 79.36612625 | 4.883426397 |
| 09-Apr-25 23:00:00 | 77.92165909 | 4.640773586 |
| 10-Apr-25 00:00:00 | 83.08347648 | 5.33737381  |
| 10-Apr-25 01:00:00 | 84.98292051 | 4.62973815  |
| 10-Apr-25 02:00:00 | 76.46666431 | 4.635727807 |
| 10-Apr-25 03:00:00 | 101.8388392 | 4.630592695 |
| 10-Apr-25 04:00:00 | 78.97049005 | 4.637458586 |
| 10-Apr-25 05:00:00 | 81.66239777 | 4.630131988 |
| 10-Apr-25 06:00:00 | 85.75734584 | 4.628590086 |
| 10-Apr-25 07:00:00 | 75.3318204  | 4.629517318 |
| 10-Apr-25 08:00:00 | 86.45777724 | 4.631196466 |
| 10-Apr-25 09:00:00 | 77.92430278 | 4.635365346 |
| 10-Apr-25 10:00:00 | 66.41318734 | 4.75453174  |
| 10-Apr-25 11:00:00 | 66.66057641 | 4.934143502 |
| 10-Apr-25 12:00:00 | 74.89196132 | 5.672264092 |
| 10-Apr-25 13:00:00 | 86.67716599 | 7.631042755 |
| 10-Apr-25 14:00:00 | 79.04699605 | 4.723713434 |
| 10-Apr-25 15:00:00 | 41.9985004  | 4.727747429 |
| 10-Apr-25 16:00:00 | 72.01955344 | 4.719945303 |
| 10-Apr-25 17:00:00 | 80.67516645 | 4.60847591  |
| 10-Apr-25 18:00:00 | 89.17069181 | 4.472381677 |
| 10-Apr-25 19:00:00 | 81.60407668 | 4.435834238 |
| 10-Apr-25 20:00:00 | 77.36652629 | 4.435573796 |
| 10-Apr-25 21:00:00 | 80.08282817 | 4.47675608  |
| 10-Apr-25 22:00:00 | 74.67065345 | 4.762037166 |
| 10-Apr-25 23:00:00 | 80.79240001 | 4.436615249 |
| 11-Apr-25 00:00:00 | 79.20977249 | 4.439557874 |
| 11-Apr-25 01:00:00 | 84.48469467 | 4.343593862 |
| 11-Apr-25 02:00:00 | 92.91034656 | 4.245882318 |
| 11-Apr-25 03:00:00 | 88.03957621 | 4.406493585 |
| 11-Apr-25 04:00:00 | 72.1513789  | 4.389921785 |
| 11-Apr-25 05:00:00 | 100.2559415 | 4.332023825 |
| 11-Apr-25 06:00:00 | 75.61957105 | 4.213440418 |
| 11-Apr-25 07:00:00 | 84.68429859 | 4.160500054 |
| 11-Apr-25 08:00:00 | 95.25603649 | 4.309956735 |
| 11-Apr-25 09:00:00 | 56.83614111 | 4.318854807 |
| 11-Apr-25 10:00:00 | 56.19932079 | 4.232365949 |
| 11-Apr-25 11:00:00 | 70.51866393 | 4.117538614 |
| 11-Apr-25 12:00:00 | 71.75775369 | 3.829577523 |
| 11-Apr-25 13:00:00 | 75.9915994  | 3.659868606 |
| 11-Apr-25 14:00:00 | 85.95638123 | 3.645617293 |
| 11-Apr-25 15:00:00 | 81.53671195 | 3.470416661 |
| 11-Apr-25 16:00:00 | 86.59795652 | 3.608724063 |
| 11-Apr-25 17:00:00 | 77.71690941 | 3.742279516 |
| 11-Apr-25 18:00:00 | 88.1405002  | 3.898574856 |
| 11-Apr-25 19:00:00 | 84.70469102 | 3.865467855 |
| 11-Apr-25 20:00:00 | 93.45744505 | 3.671877739 |
| 11-Apr-25 21:00:00 | 67.85546061 | 3.688637859 |
| 11-Apr-25 22:00:00 | 81.2834115  | 3.714128523 |
| 11-Apr-25 23:00:00 | 107.1074382 | 3.583403234 |

|          |           |                    |           |                                     |             |                                     |            |                    |                 |             |  |
|----------|-----------|--------------------|-----------|-------------------------------------|-------------|-------------------------------------|------------|--------------------|-----------------|-------------|--|
|          |           | 4/7/2025           |           |                                     |             |                                     |            |                    |                 |             |  |
|          |           | 4/13/2025          |           |                                     |             |                                     |            |                    |                 |             |  |
|          |           | Schedule G.5.3.C.i |           | ALCF Rate per type recorded on site |             | ALCF Rate per type recorded on site |            |                    |                 |             |  |
| Birthday | Date/Time | ALCF Firing Rate   | % Plastic | % Wood                              | Plastic TPH | Wood TPH                            | Row Labels | Sum of Plastic TPH | Sum of Wood TPH |             |  |
|          | 45754.00  | 07-Apr-25 00:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       | 45754              | 8.879636128     | 0           |  |
|          | 45754.00  | 07-Apr-25 01:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       | 45755              | 53.40803944     | 17.80267981 |  |
|          | 45754.00  | 07-Apr-25 02:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       | 45756              | 98.52373457     | 9.849157428 |  |
|          | 45754.00  | 07-Apr-25 03:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       | 45757              | 112.4983209     | 0           |  |
|          | 45754.00  | 07-Apr-25 04:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       | 45758              | 119.9618171     | 0           |  |
|          | 45754.00  | 07-Apr-25 05:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       | Grand Total        | 393.271548      | 27.65183724 |  |
|          | 45754.00  | 07-Apr-25 06:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 07:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 08:00:00 | 1.47      | 100%                                | 0%          | 1.47                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 09:00:00 | 2.00      | 100%                                | 0%          | 2.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 10:00:00 | 2.00      | 100%                                | 0%          | 2.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 11:00:00 | 2.00      | 100%                                | 0%          | 2.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 12:00:00 | 1.41      | 100%                                | 0%          | 1.41                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 13:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 14:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 15:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 16:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 17:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 18:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 19:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 20:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 21:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 22:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45754.00  | 07-Apr-25 23:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 00:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 01:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 02:00:00 | 0.00      | 0%                                  | 0%          | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 03:00:00 | 1.56      | 75%                                 | 25%         | 1.17                                | 0.39       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 04:00:00 | 3.84      | 75%                                 | 25%         | 2.88                                | 0.96       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 05:00:00 | 4.00      | 75%                                 | 25%         | 3.00                                | 1.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 06:00:00 | 4.00      | 75%                                 | 25%         | 3.00                                | 1.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 07:00:00 | 3.37      | 75%                                 | 25%         | 2.53                                | 0.84       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 08:00:00 | 2.46      | 75%                                 | 25%         | 1.84                                | 0.61       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 09:00:00 | 4.00      | 75%                                 | 25%         | 3.00                                | 1.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 10:00:00 | 4.00      | 75%                                 | 25%         | 3.00                                | 1.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 11:00:00 | 4.00      | 75%                                 | 25%         | 3.00                                | 1.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 12:00:00 | 4.00      | 75%                                 | 25%         | 3.00                                | 1.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 13:00:00 | 3.85      | 75%                                 | 25%         | 2.89                                | 0.96       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 14:00:00 | 4.00      | 75%                                 | 25%         | 3.00                                | 1.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 15:00:00 | 0.30      | 75%                                 | 25%         | 0.23                                | 0.08       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 16:00:00 | 0.00      | 75%                                 | 25%         | 0.00                                | 0.00       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 17:00:00 | 3.79      | 75%                                 | 25%         | 2.84                                | 0.95       |                    |                 |             |  |
|          | 45755.00  | 08-Apr-25 18:00:00 | 4.00      | 75%                                 | 25%         | 3.00                                | 1.00       |                    |                 |             |  |

|          |                    |      |      |     |      |      |
|----------|--------------------|------|------|-----|------|------|
| 45755.00 | 08-Apr-25 19:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45755.00 | 08-Apr-25 20:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45755.00 | 08-Apr-25 21:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45755.00 | 08-Apr-25 22:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45755.00 | 08-Apr-25 23:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 00:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 01:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 02:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 03:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 04:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 05:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 06:00:00 | 3.62 | 75%  | 25% | 2.71 | 0.90 |
| 45756.00 | 09-Apr-25 07:00:00 | 3.76 | 75%  | 25% | 2.82 | 0.94 |
| 45756.00 | 09-Apr-25 08:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 09:00:00 | 4.00 | 75%  | 25% | 3.00 | 1.00 |
| 45756.00 | 09-Apr-25 10:00:00 | 4.29 | 100% | 0%  | 4.29 | 0.00 |
| 45756.00 | 09-Apr-25 11:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45756.00 | 09-Apr-25 12:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45756.00 | 09-Apr-25 13:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45756.00 | 09-Apr-25 14:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45756.00 | 09-Apr-25 15:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45756.00 | 09-Apr-25 16:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45756.00 | 09-Apr-25 17:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45756.00 | 09-Apr-25 18:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45756.00 | 09-Apr-25 19:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45756.00 | 09-Apr-25 20:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45756.00 | 09-Apr-25 21:00:00 | 4.62 | 100% | 0%  | 4.62 | 0.00 |
| 45756.00 | 09-Apr-25 22:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45756.00 | 09-Apr-25 23:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 00:00:00 | 3.67 | 100% | 0%  | 3.67 | 0.00 |
| 45757.00 | 10-Apr-25 01:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 02:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 03:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 04:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 05:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 06:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 07:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 08:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45757.00 | 10-Apr-25 09:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45757.00 | 10-Apr-25 10:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45757.00 | 10-Apr-25 11:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 12:00:00 | 3.82 | 100% | 0%  | 3.82 | 0.00 |
| 45757.00 | 10-Apr-25 13:00:00 | 0.55 | 100% | 0%  | 0.55 | 0.00 |
| 45757.00 | 10-Apr-25 14:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 15:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 16:00:00 | 5.01 | 100% | 0%  | 5.01 | 0.00 |
| 45757.00 | 10-Apr-25 17:00:00 | 5.00 | 100% | 0%  | 5.00 | 0.00 |

|          |                    |      |      |    |      |      |
|----------|--------------------|------|------|----|------|------|
| 45757.00 | 10-Apr-25 18:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 19:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 20:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45757.00 | 10-Apr-25 21:00:00 | 5.01 | 100% | 0% | 5.01 | 0.00 |
| 45757.00 | 10-Apr-25 22:00:00 | 4.37 | 100% | 0% | 4.37 | 0.00 |
| 45757.00 | 10-Apr-25 23:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 00:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 01:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 02:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 03:00:00 | 4.86 | 100% | 0% | 4.86 | 0.00 |
| 45758.00 | 11-Apr-25 04:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 05:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 06:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 07:00:00 | 5.01 | 100% | 0% | 5.01 | 0.00 |
| 45758.00 | 11-Apr-25 08:00:00 | 5.01 | 100% | 0% | 5.01 | 0.00 |
| 45758.00 | 11-Apr-25 09:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 10:00:00 | 5.01 | 100% | 0% | 5.01 | 0.00 |
| 45758.00 | 11-Apr-25 11:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 12:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 13:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 14:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 15:00:00 | 5.01 | 100% | 0% | 5.01 | 0.00 |
| 45758.00 | 11-Apr-25 16:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 17:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 18:00:00 | 5.01 | 100% | 0% | 5.01 | 0.00 |
| 45758.00 | 11-Apr-25 19:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 20:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 21:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 22:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |
| 45758.00 | 11-Apr-25 23:00:00 | 5.00 | 100% | 0% | 5.00 | 0.00 |

4/7/2025  
4/12/2025  
Schedule G.5.3.C.iv

Fuel Adjunct Material  
Industrial Byproduct Material

|           | n/a not used | Total Limestone | Crushed Clay | Total Sandstone | Total Silica Residue | Total Silica | Alumina, Low Alkali | Total Noval / FCC | Total Iron | Total Sand | Total Recycled Iron | Sand Filter Cake | Total Bottom Ash | Shale   | Total Alumina Soil | Total Raw Clay | Total Flyash | Total Raw Mill Material | Total Kiln Feed |
|-----------|--------------|-----------------|--------------|-----------------|----------------------|--------------|---------------------|-------------------|------------|------------|---------------------|------------------|------------------|---------|--------------------|----------------|--------------|-------------------------|-----------------|
| 4/7/2025  | n/a not used | 2475.135        | 132.218      | 186.674         | 0                    | 0            | 0                   | 0                 | 40.151     | 0          | 0                   | 0                | 82.707           | 583.329 | 40.736             | 0              | 0            | 3540.95                 | 2978.408        |
| 4/8/2025  | n/a not used | 1773.527        | 96.18        | 157.776         | 0                    | 0            | 0                   | 0                 | 31.888     | 0          | 0                   | 0                | 82.424           | 446.315 | 40.597             | 0              | 0            | 2628.707                | 2878.319        |
| 4/9/2025  | n/a not used | 2616.853        | 143.662      | 227.884         | 0                    | 8.327        | 0                   | 0                 | 47.225     | 0          | 0                   | 0                | 122.563          | 658.871 | 60.367             | 0              | 0            | 3885.752                | 3068.822        |
| 4/10/2025 | n/a not used | 1517.718        | 81.604       | 101.583         | 0                    | 19.672       | 0                   | 0                 | 25.982     | 0          | 0                   | 0                | 47.411           | 346.395 | 23.352             | 0              | 28.714       | 2192.431                | 3073.889        |
| 4/11/2025 | n/a not used | 3571.494        | 197.262      | 276.01          | 0                    | 0            | 97.621              | 0                 | 61.025     | 0          | 0                   | 0                | 97.621           | 867.796 | 0                  | 0              | 158.674      | 5327.503                | 3118.966        |

| Birthday | date/time          | RM Feed  | Kiln Feed |             |                |                  |
|----------|--------------------|----------|-----------|-------------|----------------|------------------|
| 45754.00 | 07-Apr-25 00:00:00 | 1.246209 | 122       | Row Labels  | Sum of RM Feed | Sum of Kiln Feed |
| 45754.00 | 07-Apr-25 01:00:00 | 1.29324  | 122       | 45754       | 3641.491675    | 2825.949089      |
| 45754.00 | 07-Apr-25 02:00:00 | 1.177613 | 119.7067  | 45755       | 2826.54527     | 2828.004927      |
| 45754.00 | 07-Apr-25 03:00:00 | 1.209324 | 118       | 45756       | 4283.59435     | 2901.915064      |
| 45754.00 | 07-Apr-25 04:00:00 | 94.80814 | 120.17    | 45757       | 2222.142718    | 3016.633609      |
| 45754.00 | 07-Apr-25 05:00:00 | 219.2264 | 120.5505  | 45758       | 5331.798475    | 2992.11778       |
| 45754.00 | 07-Apr-25 06:00:00 | 221.7993 | 121.4946  | Grand Total | 18305.57249    | 14564.62047      |
| 45754.00 | 07-Apr-25 07:00:00 | 222.3423 | 125.2509  |             |                |                  |
| 45754.00 | 07-Apr-25 08:00:00 | 222.5209 | 123.3263  |             |                |                  |
| 45754.00 | 07-Apr-25 09:00:00 | 217.2729 | 122.0667  |             |                |                  |
| 45754.00 | 07-Apr-25 10:00:00 | 222.0829 | 119.6214  |             |                |                  |
| 45754.00 | 07-Apr-25 11:00:00 | 221.5862 | 117.9441  |             |                |                  |
| 45754.00 | 07-Apr-25 12:00:00 | 221.6207 | 119.3791  |             |                |                  |
| 45754.00 | 07-Apr-25 13:00:00 | 221.6071 | 117.7519  |             |                |                  |
| 45754.00 | 07-Apr-25 14:00:00 | 221.4474 | 107.2668  |             |                |                  |
| 45754.00 | 07-Apr-25 15:00:00 | 221.4112 | 102.3736  |             |                |                  |
| 45754.00 | 07-Apr-25 16:00:00 | 221.4015 | 103.6983  |             |                |                  |
| 45754.00 | 07-Apr-25 17:00:00 | 221.381  | 114.2462  |             |                |                  |
| 45754.00 | 07-Apr-25 18:00:00 | 221.036  | 119.647   |             |                |                  |
| 45754.00 | 07-Apr-25 19:00:00 | 221.0417 | 114.8978  |             |                |                  |
| 45754.00 | 07-Apr-25 20:00:00 | 220.7852 | 109.4008  |             |                |                  |
| 45754.00 | 07-Apr-25 21:00:00 | 1.091559 | 117.8669  |             |                |                  |
| 45754.00 | 07-Apr-25 22:00:00 | 1.054435 | 123.8699  |             |                |                  |
| 45754.00 | 07-Apr-25 23:00:00 | 1.048291 | 123.4194  |             |                |                  |
| 45755.00 | 08-Apr-25 00:00:00 | 1.043804 | 124.8785  |             |                |                  |
| 45755.00 | 08-Apr-25 01:00:00 | 2.74527  | 126.3312  |             |                |                  |
| 45755.00 | 08-Apr-25 02:00:00 | 1.064227 | 129.1348  |             |                |                  |
| 45755.00 | 08-Apr-25 03:00:00 | 1.133366 | 121.613   |             |                |                  |
| 45755.00 | 08-Apr-25 04:00:00 | 9.192325 | 124.5661  |             |                |                  |
| 45755.00 | 08-Apr-25 05:00:00 | 224.9044 | 126.4368  |             |                |                  |
| 45755.00 | 08-Apr-25 06:00:00 | 219.8656 | 109.9107  |             |                |                  |
| 45755.00 | 08-Apr-25 07:00:00 | 216.4045 | 113.5058  |             |                |                  |
| 45755.00 | 08-Apr-25 08:00:00 | 210.4051 | 112.941   |             |                |                  |
| 45755.00 | 08-Apr-25 09:00:00 | 210.0672 | 114.4092  |             |                |                  |

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|----------|--------------------|----------|----------|
| 45755.00 | 08-Apr-25 10:00:00 | 209.4995 | 116.7139 |
| 45755.00 | 08-Apr-25 11:00:00 | 209.5542 | 115.4473 |
| 45755.00 | 08-Apr-25 12:00:00 | 207.6425 | 113.2755 |
| 45755.00 | 08-Apr-25 13:00:00 | 178.2459 | 114.7121 |
| 45755.00 | 08-Apr-25 14:00:00 | 0.499541 | 112.31   |
| 45755.00 | 08-Apr-25 15:00:00 | 12.23557 | 111.8536 |
| 45755.00 | 08-Apr-25 16:00:00 | 0.403126 | 111.3664 |
| 45755.00 | 08-Apr-25 17:00:00 | 0.344374 | 118.138  |
| 45755.00 | 08-Apr-25 18:00:00 | 0.297069 | 124.7543 |
| 45755.00 | 08-Apr-25 19:00:00 | 0.298642 | 125.1321 |
| 45755.00 | 08-Apr-25 20:00:00 | 204.5642 | 119.5359 |
| 45755.00 | 08-Apr-25 21:00:00 | 234.4447 | 112.6681 |
| 45755.00 | 08-Apr-25 22:00:00 | 235.8383 | 117.2439 |
| 45755.00 | 08-Apr-25 23:00:00 | 235.8519 | 111.1266 |
| 45756.00 | 09-Apr-25 00:00:00 | 235.6156 | 126.8098 |
| 45756.00 | 09-Apr-25 01:00:00 | 235.7693 | 122.1574 |
| 45756.00 | 09-Apr-25 02:00:00 | 234.3265 | 124.6133 |
| 45756.00 | 09-Apr-25 03:00:00 | 235.8369 | 114.4088 |
| 45756.00 | 09-Apr-25 04:00:00 | 235.8648 | 117.32   |
| 45756.00 | 09-Apr-25 05:00:00 | 235.8133 | 117.0717 |
| 45756.00 | 09-Apr-25 06:00:00 | 235.7725 | 114.9092 |
| 45756.00 | 09-Apr-25 07:00:00 | 235.4523 | 110.0067 |
| 45756.00 | 09-Apr-25 08:00:00 | 235.3576 | 110.834  |
| 45756.00 | 09-Apr-25 09:00:00 | 235.0311 | 115      |
| 45756.00 | 09-Apr-25 10:00:00 | 234.8642 | 115.0128 |
| 45756.00 | 09-Apr-25 11:00:00 | 234.1303 | 117.3543 |
| 45756.00 | 09-Apr-25 12:00:00 | 234.5808 | 118.8864 |
| 45756.00 | 09-Apr-25 13:00:00 | 234.7581 | 122.4374 |
| 45756.00 | 09-Apr-25 14:00:00 | 234.8384 | 120.145  |
| 45756.00 | 09-Apr-25 15:00:00 | 177.1886 | 122.3944 |
| 45756.00 | 09-Apr-25 16:00:00 | -0.12253 | 125      |
| 45756.00 | 09-Apr-25 17:00:00 | -0.12198 | 126.0828 |
| 45756.00 | 09-Apr-25 18:00:00 | -0.12142 | 129.647  |
| 45756.00 | 09-Apr-25 19:00:00 | -0.12087 | 123.3589 |
| 45756.00 | 09-Apr-25 20:00:00 | -0.12031 | 127.6337 |
| 45756.00 | 09-Apr-25 21:00:00 | 114.8094 | 128.6169 |
| 45756.00 | 09-Apr-25 22:00:00 | 240.2459 | 125.2319 |
| 45756.00 | 09-Apr-25 23:00:00 | 223.9457 | 126.9827 |
| 45757.00 | 10-Apr-25 00:00:00 | 223.1766 | 124.7194 |
| 45757.00 | 10-Apr-25 01:00:00 | 222.8609 | 120.42   |
| 45757.00 | 10-Apr-25 02:00:00 | 222.1001 | 123.0332 |
| 45757.00 | 10-Apr-25 03:00:00 | 216.8907 | 121.3959 |
| 45757.00 | 10-Apr-25 04:00:00 | 221.0289 | 127.2312 |
| 45757.00 | 10-Apr-25 05:00:00 | 1.663358 | 128      |
| 45757.00 | 10-Apr-25 06:00:00 | 1.04762  | 124.7218 |
| 45757.00 | 10-Apr-25 07:00:00 | 0.716659 | 125      |
| 45757.00 | 10-Apr-25 08:00:00 | 0.330497 | 125.4116 |
| 45757.00 | 10-Apr-25 09:00:00 | 0.268481 | 126.6958 |
| 45757.00 | 10-Apr-25 10:00:00 | 0.427941 | 126.5869 |
| 45757.00 | 10-Apr-25 11:00:00 | 0.406224 | 125.854  |
| 45757.00 | 10-Apr-25 12:00:00 | 0.439887 | 129.814  |
| 45757.00 | 10-Apr-25 13:00:00 | 0.518246 | 126.0436 |
| 45757.00 | 10-Apr-25 14:00:00 | 0.394802 | 112.8368 |

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|----------|--------------------|----------|----------|
| 45757.00 | 10-Apr-25 15:00:00 | 9.593995 | 119.2823 |
| 45757.00 | 10-Apr-25 16:00:00 | 0.342459 | 124.0282 |
| 45757.00 | 10-Apr-25 17:00:00 | 0.219328 | 129.6803 |
| 45757.00 | 10-Apr-25 18:00:00 | 0.298317 | 131      |
| 45757.00 | 10-Apr-25 19:00:00 | 205.1309 | 131      |
| 45757.00 | 10-Apr-25 20:00:00 | 224.7036 | 131      |
| 45757.00 | 10-Apr-25 21:00:00 | 223.8795 | 130.9567 |
| 45757.00 | 10-Apr-25 22:00:00 | 222.8117 | 123.922  |
| 45757.00 | 10-Apr-25 23:00:00 | 222.892  | 128      |
| 45758.00 | 11-Apr-25 00:00:00 | 223.0775 | 122.5084 |
| 45758.00 | 11-Apr-25 01:00:00 | 222.6804 | 126.5483 |
| 45758.00 | 11-Apr-25 02:00:00 | 222.9229 | 118.79   |
| 45758.00 | 11-Apr-25 03:00:00 | 222.7593 | 120.2359 |
| 45758.00 | 11-Apr-25 04:00:00 | 222.7254 | 124.844  |
| 45758.00 | 11-Apr-25 05:00:00 | 222.4964 | 132      |
| 45758.00 | 11-Apr-25 06:00:00 | 222.5462 | 132      |
| 45758.00 | 11-Apr-25 07:00:00 | 222.2979 | 132      |
| 45758.00 | 11-Apr-25 08:00:00 | 222.2039 | 121.1218 |
| 45758.00 | 11-Apr-25 09:00:00 | 222.4269 | 125.0032 |
| 45758.00 | 11-Apr-25 10:00:00 | 222.507  | 126      |
| 45758.00 | 11-Apr-25 11:00:00 | 222.1396 | 126      |
| 45758.00 | 11-Apr-25 12:00:00 | 221.7511 | 126.7105 |
| 45758.00 | 11-Apr-25 13:00:00 | 221.9639 | 128.4041 |
| 45758.00 | 11-Apr-25 14:00:00 | 221.9412 | 130.3908 |
| 45758.00 | 11-Apr-25 15:00:00 | 221.856  | 130.9278 |
| 45758.00 | 11-Apr-25 16:00:00 | 221.8086 | 127.6548 |
| 45758.00 | 11-Apr-25 17:00:00 | 221.8602 | 126.6217 |
| 45758.00 | 11-Apr-25 18:00:00 | 221.6254 | 121.8596 |
| 45758.00 | 11-Apr-25 19:00:00 | 221.6787 | 124.3586 |
| 45758.00 | 11-Apr-25 20:00:00 | 221.5708 | 115.905  |
| 45758.00 | 11-Apr-25 21:00:00 | 221.9821 | 118      |
| 45758.00 | 11-Apr-25 22:00:00 | 221.0198 | 125.9341 |
| 45758.00 | 11-Apr-25 23:00:00 | 221.9573 | 108.299  |

| ECA 6394-D78PR2 10.1.a.i CEM data for Nox, Opacity, and SO2                                                         |       |             |   |            |             |
|---------------------------------------------------------------------------------------------------------------------|-------|-------------|---|------------|-------------|
| The CEM report can be generated using the DAS System which generates values used for regulatory compliance testing. |       |             |   |            |             |
| 1-hour report for the period from 4/7/2025 12:00:00 AM to 4/11/2025 11:59:59 PM                                     |       |             |   |            |             |
| Base Interval: 1-hour                                                                                               |       |             |   |            |             |
| Day                                                                                                                 | Time  | NOx (F)ppmv |   | Opacity(%) | SO2 (F)ppmv |
| 7                                                                                                                   | 0:00  | 304         | O | 7.21       | 175.8       |
|                                                                                                                     | 1:00  | 254         | O | 7.87       | 210.2       |
|                                                                                                                     | 2:00  | 223         | O | 7.97       | 236.1       |
|                                                                                                                     | 3:00  | 266         | O | 8.19       | 211.3       |
|                                                                                                                     | 4:00  | 329         | O | 8.17       | 241.6       |
|                                                                                                                     | 5:00  | 262         | M | 7.15       | 300         |
|                                                                                                                     | 6:00  | 270         | O | 7.22       | 314.3       |
|                                                                                                                     | 7:00  | 202         | C | 7.13       | 271.2       |
|                                                                                                                     | 8:00  | 232         | C | 6.99       | 350 U       |
|                                                                                                                     | 9:00  | 228         |   | 6.09       | 293.6       |
|                                                                                                                     | 10:00 | 151         |   | 6.41       | 263.1       |
|                                                                                                                     | 11:00 | 191         |   | 5.2        | 302.5       |
|                                                                                                                     | 12:00 | 241         |   | 4.51       | 323.1       |
|                                                                                                                     | 13:00 | 138         |   | 4.1        | 191.1       |
|                                                                                                                     | 14:00 | 41          |   | 2.74       | 17          |
|                                                                                                                     | 15:00 | 135         |   | 8.15       | 138.3       |
|                                                                                                                     | 16:00 | 329         |   | 10.52      | 202.4       |
|                                                                                                                     | 17:00 | 574         |   | 11.93      | 205.5       |
|                                                                                                                     | 18:00 | 423         |   | 11.66      | 190.3       |
|                                                                                                                     | 19:00 | 210         |   | 11.46      | 192.2       |
|                                                                                                                     | 20:00 | 239         |   | 12.58      | 216.2       |
|                                                                                                                     | 21:00 | 470         |   | 12.48      | 260.9       |
|                                                                                                                     | 22:00 | 395         |   | 10.19      | 209         |
|                                                                                                                     | 23:00 | 265         |   | 10.83      | 226.4       |
| 8                                                                                                                   | 0:00  | 234         |   | 10.99      | 275         |
|                                                                                                                     | 1:00  | 194         |   | 8.65       | 268.1       |
|                                                                                                                     | 2:00  | 233         |   | 9.59       | 288.5       |
|                                                                                                                     | 3:00  | 190         |   | 9.21       | 305.6       |
|                                                                                                                     | 4:00  | 259         |   | 7.19       | 253.5       |
|                                                                                                                     | 5:00  | 115         |   | 7.46       | 335.1       |
|                                                                                                                     | 6:00  | 94          |   | 2.88       | 94.7        |
|                                                                                                                     | 7:00  | 270         |   | 3.47       | 248.3       |
|                                                                                                                     | 8:00  | 162         |   | 3.78       | 253.7       |
|                                                                                                                     | 9:00  | 281         | W | 3.6        | 263.4 W     |
|                                                                                                                     | 10:00 | 306         | W | 3.15       | 273.1 W     |
|                                                                                                                     | 11:00 | 235         | W | 2.8        | 257.6 W     |
|                                                                                                                     | 12:00 | 269         | W | 3.56       | 219.1 W     |
|                                                                                                                     | 13:00 | 209         | W | 3.1        | 165.4 W     |
|                                                                                                                     | 14:00 | 213         | W | 3.99       | 175.9 W     |
|                                                                                                                     | 15:00 | 255         | W | 4.37       | 107.9 W     |
|                                                                                                                     | 16:00 | 321         | W | 5.13       | 125.6 W     |
|                                                                                                                     | 17:00 | 388         | W | 4.43       | 203.6 W     |
|                                                                                                                     | 18:00 | 332         | W | 3.81       | 218.3 W     |
|                                                                                                                     | 19:00 | 172         | W | 4.14       | 236.5 W     |
|                                                                                                                     | 20:00 | 57          | W | 3.81       | 324.5 W     |
| 9                                                                                                                   | 0:00  | 255         | W | 3.74       | 330.5 W     |
|                                                                                                                     | 1:00  | 97          | W | 3.23       | 113.3 W     |
|                                                                                                                     | 2:00  | 277         | W | 4.04       | 135.7 W     |
|                                                                                                                     | 3:00  | 200         | W | 3.79       | 139.5 W     |
|                                                                                                                     | 4:00  | 258         | W | 3.98       | 139.9 W     |
|                                                                                                                     | 5:00  | 114         | W | 4.52       | 169.1 W     |
|                                                                                                                     | 6:00  | 236         | W | 4.2        | 126.8 W     |
|                                                                                                                     | 7:00  | 117         | W | 4.48       | 129.8 W     |
|                                                                                                                     | 8:00  | 328         | W | 4.86       | 107.6 W     |
|                                                                                                                     | 9:00  | 348         | W | 4.59       | 136.6 W     |
|                                                                                                                     | 10:00 | 317         | W | 4.25       | 165.4 W     |
|                                                                                                                     | 11:00 | 176         | W | 3.77       | 230.4 W     |
|                                                                                                                     | 12:00 | 179         | W | 3.68       | 256.4 W     |
|                                                                                                                     | 13:00 | 232         | W | 3.34       | 327.3 W     |
|                                                                                                                     | 14:00 | 130         | W | 3.18       | 301.8 W     |
|                                                                                                                     | 15:00 | 256         | W | 3.35       | 240.6 W     |
|                                                                                                                     | 16:00 | 411         | W | 3.85       | 197.1 W     |
|                                                                                                                     | 17:00 | 350         | W | 3.94       | 197.8 W     |
|                                                                                                                     | 18:00 | 226         | W | 4.64       | 228.7 W     |
|                                                                                                                     | 19:00 | 196         | W | 5.1        | 231.1 W     |
|                                                                                                                     | 20:00 | 212         | W | 5.17       | 316.2 W     |

|        |        |       |       |       |         |  |
|--------|--------|-------|-------|-------|---------|--|
|        | 9      | 21:00 | 215 W | 4.34  | 314.6 W |  |
|        | 9      | 22:00 | 83 W  | 3.13  | 326 W   |  |
|        | 9      | 23:00 | 135 W | 3.1   | 292.8 W |  |
|        | 10     | 0:00  | 156 W | 3.42  | 305.7 W |  |
|        | 10     | 1:00  | 164 W | 3.17  | 231.2 W |  |
|        | 10     | 2:00  | 197 W | 3.01  | 334 W   |  |
|        | 10     | 3:00  | 92 W  | 3.15  | 295.8 W |  |
|        | 10     | 4:00  | 159 W | 3.06  | 333.9 W |  |
|        | 10     | 5:00  | 138 W | 4.11  | 317.7 W |  |
|        | 10     | 6:00  | 125 W | 5.26  | 215.9 W |  |
|        | 10     | 7:00  | 296 W | 5.18  | 226.2 W |  |
|        | 10     | 8:00  | 208 W | 5.34  | 239.1 W |  |
|        | 10     | 9:00  | 164 W | 5.44  | 240.2 W |  |
|        | 10     | 10:00 | 198   | 5.45  | 243.9   |  |
|        | 10     | 11:00 | 280   | 5.86  | 212.4   |  |
|        | 10     | 12:00 | 289   | 5.31  | 218.4   |  |
|        | 10     | 13:00 | 275   | 5.6   | 140     |  |
|        | 10     | 14:00 | 319   | 5.15  | 170.1   |  |
|        | 10     | 15:00 | 535   | 4.93  | 167.6   |  |
|        | 10     | 16:00 | 699   | 4.24  | 167.2   |  |
|        | 10     | 17:00 | 634   | 4.12  | 156.9   |  |
|        | 10     | 18:00 | 590   | 4.31  | 156.1   |  |
|        | 10     | 19:00 | 378   | 3.67  | 227.4   |  |
|        | 10     | 20:00 | 315   | 3.4   | 266.1   |  |
|        | 10     | 21:00 | 197   | 3.29  | 327.3   |  |
|        | 10     | 22:00 | 172   | 3.29  | 302.9   |  |
|        | 10     | 23:00 | 150   | 3.38  | 328.2   |  |
|        | 11     | 0:00  | 160   | 4.14  | 314.3   |  |
|        | 11     | 1:00  | 204   | 4.05  | 315.9   |  |
|        | 11     | 2:00  | 99    | 4.27  | 308.9   |  |
|        | 11     | 3:00  | 102   | 3.72  | 318.9   |  |
|        | 11     | 4:00  | 268   | 3.96  | 250.4   |  |
|        | 11     | 5:00  | 272   | 3.25  | 327.8   |  |
|        | 11     | 6:00  | 312   | 3.32  | 290.9   |  |
|        | 11     | 7:00  | 351   | 3.23  | 304.5   |  |
|        | 11     | 8:00  | 111   | 3.04  | 314.2   |  |
|        | 11     | 9:00  | 211   | 3.06  | 350 U   |  |
|        | 11     | 10:00 | 261   | 2.9   | 264.2   |  |
|        | 11     | 11:00 | 234   | 2.91  | 337     |  |
|        | 11     | 12:00 | 261   | 2.76  | 314.3   |  |
|        | 11     | 13:00 | 341   | 2.79  | 270.3   |  |
|        | 11     | 14:00 | 359   | 3.08  | 302.7   |  |
|        | 11     | 15:00 | 342   | 3.09  | 233.1   |  |
|        | 11     | 16:00 | 180   | 3.39  | 243.6   |  |
|        | 11     | 17:00 | 278   | 3.26  | 194.7   |  |
|        | 11     | 18:00 | 350   | 3.3   | 158.1   |  |
|        | 11     | 19:00 | 365   | 3.36  | 143.8   |  |
|        | 11     | 20:00 | 382   | 3.56  | 119.3   |  |
|        | 11     | 21:00 | 372   | 3.4   | 151.2   |  |
|        | 11     | 22:00 | 460   | 3.26  | 187.1   |  |
|        | 11     | 23:00 | 319   | 3.4   | 208.4   |  |
| Avg.   | Avg.   | 250   |       | 4.99  | 235.4   |  |
| Max.   | Max.   | 699   |       | 12.58 | 350     |  |
| Min.   | Min.   | 7     |       | 2.26  | 17      |  |
| #Valid | #Valid | 111   |       | 120   | 120     |  |

| ECA 6394-D78PR2 10.1.a.i Oxygen in the Tower |                   |                   |
|----------------------------------------------|-------------------|-------------------|
| Date                                         | Stage 1 O2 - East | Stage 1 O2 - West |
| 07-Apr-25 00:00:00                           | 6.513296416       | 5.87563529        |
| 07-Apr-25 01:00:00                           | 6.492292122       | 5.88609228        |
| 07-Apr-25 02:00:00                           | 6.706485283       | 5.331944326       |
| 07-Apr-25 03:00:00                           | 6.721462281       | 5.15279969        |
| 07-Apr-25 04:00:00                           | 6.779279772       | 4.952744105       |
| 07-Apr-25 05:00:00                           | 6.232419665       | 4.453943779       |
| 07-Apr-25 06:00:00                           | 6.032830433       | 4.492798134       |
| 07-Apr-25 07:00:00                           | 6.11243006        | 4.145850089       |
| 07-Apr-25 08:00:00                           | 6.046811827       | 3.836330864       |
| 07-Apr-25 09:00:00                           | 6.341275471       | 3.930502282       |
| 07-Apr-25 10:00:00                           | 6.297538128       | 4.052672231       |
| 07-Apr-25 11:00:00                           | 6.539523349       | 4.205653991       |
| 07-Apr-25 12:00:00                           | 6.518709316       | 4.188600663       |
| 07-Apr-25 13:00:00                           | 6.886351027       | 4.881122048       |
| 07-Apr-25 14:00:00                           | 6.474661886       | 4.583456069       |
| 07-Apr-25 15:00:00                           | 7.405984842       | 4.820769787       |
| 07-Apr-25 16:00:00                           | 6.962004064       | 4.549982598       |
| 07-Apr-25 17:00:00                           | 7.073746622       | 4.758881928       |
| 07-Apr-25 18:00:00                           | 6.00979656        | 5.136976041       |
| 07-Apr-25 19:00:00                           | 6.345107605       | 4.899795846       |
| 07-Apr-25 20:00:00                           | 7.310041619       | 4.898036825       |
| 07-Apr-25 21:00:00                           | 7.861724965       | 5.173648448       |
| 07-Apr-25 22:00:00                           | 7.217756846       | 4.613032033       |
| 07-Apr-25 23:00:00                           | 6.802225416       | 4.257237665       |
| 08-Apr-25 00:00:00                           | 6.74176218        | 4.242703761       |
| 08-Apr-25 01:00:00                           | 6.431474089       | 4.051596618       |
| 08-Apr-25 02:00:00                           | 6.487177059       | 4.244518128       |
| 08-Apr-25 03:00:00                           | 6.432823866       | 4.700502371       |
| 08-Apr-25 04:00:00                           | 6.415226023       | 4.329600901       |
| 08-Apr-25 05:00:00                           | 5.758381855       | 4.155760807       |
| 08-Apr-25 06:00:00                           | 6.17967168        | 4.812827613       |
| 08-Apr-25 07:00:00                           | 7.160351133       | 4.741300201       |
| 08-Apr-25 08:00:00                           | 7.88781007        | 4.889095287       |
| 08-Apr-25 09:00:00                           | 7.727587928       | 4.75710097        |
| 08-Apr-25 10:00:00                           | 7.347418551       | 4.249803904       |
| 08-Apr-25 11:00:00                           | 7.901702583       | 4.380593405       |
| 08-Apr-25 12:00:00                           | 8.420602659       | 4.580616421       |
| 08-Apr-25 13:00:00                           | 8.670983755       | 5.048865197       |
| 08-Apr-25 14:00:00                           | 8.424119693       | 5.167540166       |
| 08-Apr-25 15:00:00                           | 8.674021303       | 6.065971746       |
| 08-Apr-25 16:00:00                           | 8.348277548       | 5.862280167       |
| 08-Apr-25 17:00:00                           | 7.217997797       | 4.634557402       |
| 08-Apr-25 18:00:00                           | 7.125867132       | 4.781252978       |
| 08-Apr-25 19:00:00                           | 6.983402835       | 4.887175943       |
| 08-Apr-25 20:00:00                           | 5.663949589       | 4.444081012       |
| 08-Apr-25 21:00:00                           | 4.76144746        | 3.826899299       |
| 08-Apr-25 22:00:00                           | 4.394651243       | 3.76883599        |
| 08-Apr-25 23:00:00                           | 5.651097227       | 4.098061696       |
| 09-Apr-25 00:00:00                           | 5.4623746         | 3.935007392       |
| 09-Apr-25 01:00:00                           | 5.410981697       | 4.51146703        |
| 09-Apr-25 02:00:00                           | 7.039586959       | 5.104332495       |
| 09-Apr-25 03:00:00                           | 7.306107427       | 5.013490372       |
| 09-Apr-25 04:00:00                           | 7.784661662       | 5.046990919       |
| 09-Apr-25 05:00:00                           | 7.730881255       | 4.96365584        |
| 09-Apr-25 06:00:00                           | 7.947778925       | 5.74284804        |
| 09-Apr-25 07:00:00                           | 7.996793247       | 5.873940429       |
| 09-Apr-25 08:00:00                           | 8.0857863         | 5.721320148       |
| 09-Apr-25 09:00:00                           | 7.919093374       | 5.612408231       |
| 09-Apr-25 10:00:00                           | 7.599442031       | 5.617260142       |
| 09-Apr-25 11:00:00                           | 6.697209514       | 4.94828578        |
| 09-Apr-25 12:00:00                           | 6.085657426       | 4.356842086       |
| 09-Apr-25 13:00:00                           | 5.575889821       | 4.146294747       |
| 09-Apr-25 14:00:00                           | 5.286495062       | 3.978547193       |
| 09-Apr-25 15:00:00                           | 6.093947225       | 4.896180768       |
| 09-Apr-25 16:00:00                           | 7.063726338       | 5.803200801       |
| 09-Apr-25 17:00:00                           | 7.267181582       | 5.711694499       |
| 09-Apr-25 18:00:00                           | 7.13834175        | 5.653780389       |
| 09-Apr-25 19:00:00                           | 6.305265006       | 4.999667173       |
| 09-Apr-25 20:00:00                           | 6.135414258       | 4.087282996       |
| 09-Apr-25 21:00:00                           | 6.393904587       | 4.208538148       |
| 09-Apr-25 22:00:00                           | 5.856220745       | 4.283064588       |
| 09-Apr-25 23:00:00                           | 6.138263546       | 4.537858904       |
| 10-Apr-25 00:00:00                           | 6.572725697       | 5.207460487       |
| 10-Apr-25 01:00:00                           | 5.618204069       | 3.952083781       |

[illegible]

| ECA6394-D78PR2 10.1.a.ii Carbon Monoxide in the Tower (ppm) |                 |                 |
|-------------------------------------------------------------|-----------------|-----------------|
| Date/Time                                                   | CO Stage 1 East | CO Stage 1 West |
| 07-Apr-25 00:00:00                                          | 1739.665667     | 2926.79603      |
| 07-Apr-25 01:00:00                                          | 1740.309507     | 2926.509302     |
| 07-Apr-25 02:00:00                                          | 1702.686267     | 3418.381477     |
| 07-Apr-25 03:00:00                                          | 1677.076815     | 3438.23417      |
| 07-Apr-25 04:00:00                                          | 1664.396919     | 3370.43736      |
| 07-Apr-25 05:00:00                                          | 1741.312432     | 3864.151501     |
| 07-Apr-25 06:00:00                                          | 1767.723526     | 3861.18463      |
| 07-Apr-25 07:00:00                                          | 1893.008301     | 4179.476838     |
| 07-Apr-25 08:00:00                                          | 1952.695814     | 4572.480259     |
| 07-Apr-25 09:00:00                                          | 2031.249435     | 4244.420035     |
| 07-Apr-25 10:00:00                                          | 2101.965032     | 4592.092342     |
| 07-Apr-25 11:00:00                                          | 1851.344402     | 3998.301431     |
| 07-Apr-25 12:00:00                                          | 1872.201942     | 3936.607725     |
| 07-Apr-25 13:00:00                                          | 4007.945985     | 5931.611668     |
| 07-Apr-25 14:00:00                                          | 6625.520619     | 8548.97086      |
| 07-Apr-25 15:00:00                                          | 1843.662076     | 3508.784704     |
| 07-Apr-25 16:00:00                                          | 1725.23382      | 2831.447279     |
| 07-Apr-25 17:00:00                                          | 1673.272349     | 2704.484229     |
| 07-Apr-25 18:00:00                                          | 1646.822425     | 2998.662205     |
| 07-Apr-25 19:00:00                                          | 1790.763567     | 2897.513839     |
| 07-Apr-25 20:00:00                                          | 1817.615786     | 3816.485943     |
| 07-Apr-25 21:00:00                                          | 1634.141237     | 3348.951022     |
| 07-Apr-25 22:00:00                                          | 2216.972963     | 4367.138935     |
| 07-Apr-25 23:00:00                                          | 2236.215624     | 4982.552573     |
| 08-Apr-25 00:00:00                                          | 2204.786939     | 5095.115718     |
| 08-Apr-25 01:00:00                                          | 2800.083301     | 5488.240738     |
| 08-Apr-25 02:00:00                                          | 2902.983683     | 5281.12097      |
| 08-Apr-25 03:00:00                                          | 2662.458354     | 5118.587449     |
| 08-Apr-25 04:00:00                                          | 2130.247107     | 4401.426041     |
| 08-Apr-25 05:00:00                                          | 4108.161116     | 6078.302813     |
| 08-Apr-25 06:00:00                                          | 5539.815534     | 5834.81336      |
| 08-Apr-25 07:00:00                                          | 1780.298117     | 3636.369626     |
| 08-Apr-25 08:00:00                                          | 1724.285509     | 3800.018995     |
| 08-Apr-25 09:00:00                                          | 1564.677208     | 3311.463638     |
| 08-Apr-25 10:00:00                                          | 1600.616989     | 3769.175761     |
| 08-Apr-25 11:00:00                                          | 1461.610342     | 3612.602688     |
| 08-Apr-25 12:00:00                                          | 1330.835884     | 3096.109578     |
| 08-Apr-25 13:00:00                                          | 1536.248845     | 3255.381867     |
| 08-Apr-25 14:00:00                                          | 1528.463753     | 3010.580558     |
| 08-Apr-25 15:00:00                                          | 1651.814916     | 2912.92844      |
| 08-Apr-25 16:00:00                                          | 1582.051342     | 2867.921268     |
| 08-Apr-25 17:00:00                                          | 1680.08813      | 3209.51514      |
| 08-Apr-25 18:00:00                                          | 1827.382485     | 3695.284613     |
| 08-Apr-25 19:00:00                                          | 2206.088974     | 4574.150661     |
| 08-Apr-25 20:00:00                                          | 4690.438345     | 6743.254076     |
| 08-Apr-25 21:00:00                                          | 5352.095144     | 7375.691653     |
| 08-Apr-25 22:00:00                                          | 6770.746343     | 7993.923016     |
| 08-Apr-25 23:00:00                                          | 2658.83718      | 4159.04581      |
| 09-Apr-25 00:00:00                                          | 2288.937016     | 4528.400675     |
| 09-Apr-25 01:00:00                                          | 3931.409771     | 5749.02855      |
| 09-Apr-25 02:00:00                                          | 1520.400954     | 2962.43645      |
| 09-Apr-25 03:00:00                                          | 1510.066218     | 3495.191332     |
| 09-Apr-25 04:00:00                                          | 1466.699103     | 2952.435992     |
| 09-Apr-25 05:00:00                                          | 1576.758402     | 4192.273715     |
| 09-Apr-25 06:00:00                                          | 1514.470223     | 2889.644888     |
| 09-Apr-25 07:00:00                                          | 1540.731627     | 3597.008721     |
| 09-Apr-25 08:00:00                                          | 1366.222485     | 2573.479704     |
| 09-Apr-25 09:00:00                                          | 1405.360253     | 2578.560477     |
| 09-Apr-25 10:00:00                                          | 1518.559868     | 2696.892327     |
| 09-Apr-25 11:00:00                                          | 2008.47353      | 4210.408001     |
| 09-Apr-25 12:00:00                                          | 2188.180155     | 4788.359462     |
| 09-Apr-25 13:00:00                                          | 2173.715251     | 4911.568735     |
| 09-Apr-25 14:00:00                                          | 2339.933737     | 5105.635973     |
| 09-Apr-25 15:00:00                                          | 1751.099731     | 3833.518468     |
| 09-Apr-25 16:00:00                                          | 1456.930225     | 2832.240598     |
| 09-Apr-25 17:00:00                                          | 1483.526799     | 3190.540382     |
| 09-Apr-25 18:00:00                                          | 1595.075145     | 3753.293616     |
| 09-Apr-25 19:00:00                                          | 1821.755376     | 4396.758082     |
| 09-Apr-25 20:00:00                                          | 2032.568233     | 4940.950674     |
| 09-Apr-25 21:00:00                                          | 2226.736146     | 5268.992425     |
| 09-Apr-25 22:00:00                                          | 3689.247492     | 6507.129991     |
| 09-Apr-25 23:00:00                                          | 2312.219452     | 5389.41108      |
| 10-Apr-25 00:00:00                                          | 2386.43422      | 4649.811045     |
| 10-Apr-25 01:00:00                                          | 3455.687599     | 5325.7109       |

|                    |             |             |
|--------------------|-------------|-------------|
| 10-Apr-25 02:00:00 | 2250.806875 | 4672.259961 |
| 10-Apr-25 03:00:00 | 2936.972035 | 5638.979001 |
| 10-Apr-25 04:00:00 | 2164.26169  | 4960.117504 |
| 10-Apr-25 05:00:00 | 2063.743895 | 4885.590637 |
| 10-Apr-25 06:00:00 | 2041.1312   | 4881.886525 |
| 10-Apr-25 07:00:00 | 1802.62411  | 3809.831599 |
| 10-Apr-25 08:00:00 | 1924.429067 | 4155.509544 |
| 10-Apr-25 09:00:00 | 2144.756213 | 4765.852651 |
| 10-Apr-25 10:00:00 | 2208.290778 | 4671.27162  |
| 10-Apr-25 11:00:00 | 1897.404256 | 4042.004695 |
| 10-Apr-25 12:00:00 | 1893.81073  | 4143.903652 |
| 10-Apr-25 13:00:00 | 1977.484369 | 4062.840705 |
| 10-Apr-25 14:00:00 | 1812.321245 | 3715.821118 |
| 10-Apr-25 15:00:00 | 1455.089911 | 2970.399075 |
| 10-Apr-25 16:00:00 | 1415.112334 | 3191.103875 |
| 10-Apr-25 17:00:00 | 1521.739905 | 3459.700006 |
| 10-Apr-25 18:00:00 | 1560.784825 | 3174.181876 |
| 10-Apr-25 19:00:00 | 1862.937987 | 4236.039145 |
| 10-Apr-25 20:00:00 | 1951.471587 | 4665.571076 |
| 10-Apr-25 21:00:00 | 2453.482233 | 5267.098746 |
| 10-Apr-25 22:00:00 | 2538.289213 | 5095.255949 |
| 10-Apr-25 23:00:00 | 2731.760837 | 5530.145155 |
| 11-Apr-25 00:00:00 | 2865.529937 | 5190.529939 |
| 11-Apr-25 01:00:00 | 2396.504928 | 5199.694062 |
| 11-Apr-25 02:00:00 | 2507.585056 | 5742.044929 |
| 11-Apr-25 03:00:00 | 2762.865147 | 5899.320113 |
| 11-Apr-25 04:00:00 | 1932.82781  | 4836.487409 |
| 11-Apr-25 05:00:00 | 2073.715436 | 5041.579969 |
| 11-Apr-25 06:00:00 | 1964.214562 | 4502.928109 |
| 11-Apr-25 07:00:00 | 1750.213742 | 3858.959368 |
| 11-Apr-25 08:00:00 | 2406.961519 | 5058.147222 |
| 11-Apr-25 09:00:00 | 2042.363511 | 4552.206811 |
| 11-Apr-25 10:00:00 | 2027.874876 | 4374.643744 |
| 11-Apr-25 11:00:00 | 2259.84297  | 4811.417585 |
| 11-Apr-25 12:00:00 | 2240.123593 | 4866.526217 |
| 11-Apr-25 13:00:00 | 1990.075234 | 4341.177259 |
| 11-Apr-25 14:00:00 | 1620.561316 | 3819.340395 |
| 11-Apr-25 15:00:00 | 1588.435442 | 3270.887005 |
| 11-Apr-25 16:00:00 | 1712.180603 | 4499.367037 |
| 11-Apr-25 17:00:00 | 1666.758097 | 3705.589102 |
| 11-Apr-25 18:00:00 | 1573.118033 | 2419.026309 |
| 11-Apr-25 19:00:00 | 1527.202447 | 2972.624584 |
| 11-Apr-25 20:00:00 | 1480.196631 | 2628.569162 |
| 11-Apr-25 21:00:00 | 1569.670083 | 3034.073763 |
| 11-Apr-25 22:00:00 | 1597.790251 | 3109.277361 |
| 11-Apr-25 23:00:00 | 1916.337703 | 3844.006118 |

| ECA6394-D78PR2 10.1.a.iii Temperature in the Process |             |                                            |
|------------------------------------------------------|-------------|--------------------------------------------|
| date                                                 | Riser Temp  | Burner Temp                                |
| 07-Apr-25 00:00:00                                   | 821.0831859 | 1312.489512                                |
| 07-Apr-25 01:00:00                                   | 821.5678636 | 1323.382454                                |
| 07-Apr-25 02:00:00                                   | 824.1378034 | 1315.23093                                 |
| 07-Apr-25 03:00:00                                   | 824.1411969 | 1282.886516                                |
| 07-Apr-25 04:00:00                                   | 825.9384406 | 1312.298129                                |
| 07-Apr-25 05:00:00                                   | 827.8331798 | 1381.842395                                |
| 07-Apr-25 06:00:00                                   | 827.6532585 | 1371.967479                                |
| 07-Apr-25 07:00:00                                   | 827.9966535 | 1349.731888                                |
| 07-Apr-25 08:00:00                                   | 827.7123448 | 1329.800376                                |
| 07-Apr-25 09:00:00                                   | 827.746922  | [-11057] Not Enough Values For Calculation |
| 07-Apr-25 10:00:00                                   | 826.8555175 | [-11057] Not Enough Values For Calculation |
| 07-Apr-25 11:00:00                                   | 826.93557   | [-11057] Not Enough Values For Calculation |
| 07-Apr-25 12:00:00                                   | 828.6974825 | 1242.280853                                |
| 07-Apr-25 13:00:00                                   | 829.4510407 | 1266.374237                                |
| 07-Apr-25 14:00:00                                   | 830.9053924 | 1172.125031                                |
| 07-Apr-25 15:00:00                                   | 822.1626569 | 1201.142492                                |
| 07-Apr-25 16:00:00                                   | 824.2833028 | 1209.608721                                |
| 07-Apr-25 17:00:00                                   | 826.4361681 | 1284.285258                                |
| 07-Apr-25 18:00:00                                   | 827.3193359 | 1284.240802                                |
| 07-Apr-25 19:00:00                                   | 828.3756765 | 1249.590138                                |
| 07-Apr-25 20:00:00                                   | 827.5322289 | 1205.422957                                |
| 07-Apr-25 21:00:00                                   | 827.106171  | 1234.817973                                |
| 07-Apr-25 22:00:00                                   | 831.3951595 | 1266.91631                                 |
| 07-Apr-25 23:00:00                                   | 831.3216793 | 1249.194068                                |
| 08-Apr-25 00:00:00                                   | 833.3978182 | 1251.536486                                |
| 08-Apr-25 01:00:00                                   | 834.6707104 | 1246.353791                                |
| 08-Apr-25 02:00:00                                   | 833.8921439 | 1198.157262                                |
| 08-Apr-25 03:00:00                                   | 832.9385239 | 1205.931251                                |
| 08-Apr-25 04:00:00                                   | 831.152535  | 1226.393481                                |
| 08-Apr-25 05:00:00                                   | 838.7276577 | 1238.600572                                |
| 08-Apr-25 06:00:00                                   | 834.6581759 | 1051.250518                                |
| 08-Apr-25 07:00:00                                   | 827.2159065 | 1196.096992                                |
| 08-Apr-25 08:00:00                                   | 826.7859742 | 1148.122396                                |
| 08-Apr-25 09:00:00                                   | 829.0249357 | 1120.547163                                |
| 08-Apr-25 10:00:00                                   | 831.047475  | 1082.373303                                |
| 08-Apr-25 11:00:00                                   | 829.9841544 | 1267.731816                                |
| 08-Apr-25 12:00:00                                   | 823.193939  | 1255.525728                                |
| 08-Apr-25 13:00:00                                   | 824.3717624 | 1228.546432                                |
| 08-Apr-25 14:00:00                                   | 825.9743603 | 1175.8279                                  |
| 08-Apr-25 15:00:00                                   | 819.2756795 | 1204.82957                                 |
| 08-Apr-25 16:00:00                                   | 821.8099935 | 1212.483178                                |
| 08-Apr-25 17:00:00                                   | 825.9097321 | 1219.481117                                |
| 08-Apr-25 18:00:00                                   | 829.273278  | 1275.244357                                |
| 08-Apr-25 19:00:00                                   | 830.0387551 | 1226.806116                                |
| 08-Apr-25 20:00:00                                   | 838.5298886 | 1249.348091                                |
| 08-Apr-25 21:00:00                                   | 843.8646671 | 1249.182098                                |
| 08-Apr-25 22:00:00                                   | 842.6821754 | 1313.396345                                |
| 08-Apr-25 23:00:00                                   | 832.5188221 | 1313.455231                                |
| 09-Apr-25 00:00:00                                   | 835.5209257 | 1280.244934                                |
| 09-Apr-25 01:00:00                                   | 840.652542  | 1061.311039                                |
| 09-Apr-25 02:00:00                                   | 827.9802397 | 938.6296872                                |
| 09-Apr-25 03:00:00                                   | 828.1036646 | 996.6225038                                |
| 09-Apr-25 04:00:00                                   | 827.2216898 | 1145.457465                                |
| 09-Apr-25 05:00:00                                   | 829.2332599 | 1165.430413                                |
| 09-Apr-25 06:00:00                                   | 825.9893806 | 1158.060066                                |
| 09-Apr-25 07:00:00                                   | 823.3096911 | 1119.603265                                |
| 09-Apr-25 08:00:00                                   | 820.7943318 | 1085.556622                                |
| 09-Apr-25 09:00:00                                   | 824.9693305 | 1210.377873                                |
| 09-Apr-25 10:00:00                                   | 825.1475257 | 1233.376762                                |
| 09-Apr-25 11:00:00                                   | 826.8122537 | 1212.805719                                |
| 09-Apr-25 12:00:00                                   | 828.182049  | 1196.171244                                |
| 09-Apr-25 13:00:00                                   | 831.5404287 | 1264.569973                                |
| 09-Apr-25 14:00:00                                   | 835.4811731 | 1253.066132                                |
| 09-Apr-25 15:00:00                                   | 829.7905154 | 1195.530097                                |
| 09-Apr-25 16:00:00                                   | 822.9233219 | 1227.649321                                |
| 09-Apr-25 17:00:00                                   | 824.6532213 | 1225.527322                                |
| 09-Apr-25 18:00:00                                   | 826.6270815 | 1189.177124                                |
| 09-Apr-25 19:00:00                                   | 826.4608042 | 1135.632828                                |
| 09-Apr-25 20:00:00                                   | 832.3213111 | 1186.149312                                |
| 09-Apr-25 21:00:00                                   | 831.5063917 | 1217.336079                                |
| 09-Apr-25 22:00:00                                   | 836.544976  | 1201.854                                   |
| 09-Apr-25 23:00:00                                   | 833.665069  | 1210.97954                                 |
| 10-Apr-25 00:00:00                                   | 831.2438983 | 1213.905537                                |
| 10-Apr-25 01:00:00                                   | 832.1784812 | 1222.009159                                |

|                    |             |             |
|--------------------|-------------|-------------|
| 10-Apr-25 02:00:00 | 832.9741769 | 1236.178334 |
| 10-Apr-25 03:00:00 | 838.2221645 | 1138.803592 |
| 10-Apr-25 04:00:00 | 834.5309572 | 1179.257478 |
| 10-Apr-25 05:00:00 | 833.0511285 | 1176.46068  |
| 10-Apr-25 06:00:00 | 829.9639895 | 1098.159453 |
| 10-Apr-25 07:00:00 | 826.0590453 | 1163.815253 |
| 10-Apr-25 08:00:00 | 828.3536633 | 1193.607623 |
| 10-Apr-25 09:00:00 | 830.4650425 | 1158.384368 |
| 10-Apr-25 10:00:00 | 829.4725993 | 1147.844557 |
| 10-Apr-25 11:00:00 | 827.673422  | 1161.056694 |
| 10-Apr-25 12:00:00 | 830.0396455 | 1179.88302  |
| 10-Apr-25 13:00:00 | 829.0889837 | 1236.24646  |
| 10-Apr-25 14:00:00 | 824.4280528 | 1040.441916 |
| 10-Apr-25 15:00:00 | 823.7978305 | 1248.744093 |
| 10-Apr-25 16:00:00 | 823.6446008 | 1297.774495 |
| 10-Apr-25 17:00:00 | 821.2698147 | 1317.101025 |
| 10-Apr-25 18:00:00 | 819.1075277 | 1278.65329  |
| 10-Apr-25 19:00:00 | 820.3135451 | 1279.306774 |
| 10-Apr-25 20:00:00 | 822.4250797 | 1284.058576 |
| 10-Apr-25 21:00:00 | 824.9112229 | 1251.492419 |
| 10-Apr-25 22:00:00 | 820.6163415 | 1219.601728 |
| 10-Apr-25 23:00:00 | 817.5552979 | 1200.698461 |
| 11-Apr-25 00:00:00 | 812.5188793 | 1211.453598 |
| 11-Apr-25 01:00:00 | 816.1629396 | 1228.653019 |
| 11-Apr-25 02:00:00 | 816.3403681 | 1187.957132 |
| 11-Apr-25 03:00:00 | 816.5561013 | 1161.288882 |
| 11-Apr-25 04:00:00 | 794.5681084 | 1034.193902 |
| 11-Apr-25 05:00:00 | 806.0386624 | 1232.454421 |
| 11-Apr-25 06:00:00 | 816.7682002 | 1233.676311 |
| 11-Apr-25 07:00:00 | 812.1635137 | 1229.87787  |
| 11-Apr-25 08:00:00 | 819.0505658 | 1109.357946 |
| 11-Apr-25 09:00:00 | 805.7592367 | 1104.976031 |
| 11-Apr-25 10:00:00 | 798.8557052 | 1210.970366 |
| 11-Apr-25 11:00:00 | 799.3838538 | 1205.764448 |
| 11-Apr-25 12:00:00 | 799.1387747 | 1238.322706 |
| 11-Apr-25 13:00:00 | 800.575682  | 1255.114374 |
| 11-Apr-25 14:00:00 | 801.232993  | 1112.154115 |
| 11-Apr-25 15:00:00 | 796.9208316 | 1223.643996 |
| 11-Apr-25 16:00:00 | 795.1793491 | 1200.498184 |
| 11-Apr-25 17:00:00 | 793.5527435 | 1236.345777 |
| 11-Apr-25 18:00:00 | 790.8061886 | 1237.379571 |
| 11-Apr-25 19:00:00 | 787.6322781 | 1254.210642 |
| 11-Apr-25 20:00:00 | 773.676485  | 1202.981602 |
| 11-Apr-25 21:00:00 | 763.9325126 | 1264.844348 |
| 11-Apr-25 22:00:00 | 765.2556519 | 1321.164154 |
| 11-Apr-25 23:00:00 | 770.2115365 | 1133.687029 |

| ECA 6394-D78PR2 10.1.a.iv Presure in the Process - Stage 1 |                       |                      |         |
|------------------------------------------------------------|-----------------------|----------------------|---------|
| Date/Time                                                  | Pressure - Stage 1 Ea | Pressure - Stage 1 W | kiln    |
| 07-Apr-25 00:00:00                                         | -374.9919697          | -343.7313243         | Running |
| 07-Apr-25 01:00:00                                         | -374.5441649          | -340.0964397         | Running |
| 07-Apr-25 02:00:00                                         | -376.867212           | -336.3203169         | Running |
| 07-Apr-25 03:00:00                                         | -375.8174145          | -334.8880213         | Running |
| 07-Apr-25 04:00:00                                         | -376.5321785          | -323.3272705         | Running |
| 07-Apr-25 05:00:00                                         | -355.863698           | -306.9956243         | Running |
| 07-Apr-25 06:00:00                                         | -360.4190448          | -314.0022453         | Running |
| 07-Apr-25 07:00:00                                         | -370.9413353          | -316.8780317         | Running |
| 07-Apr-25 08:00:00                                         | -359.0474125          | -310.8918923         | Running |
| 07-Apr-25 09:00:00                                         | -364.5490429          | -315.0587012         | Running |
| 07-Apr-25 10:00:00                                         | -362.9885036          | -315.4720982         | Running |
| 07-Apr-25 11:00:00                                         | -357.8746733          | -315.3002521         | Running |
| 07-Apr-25 12:00:00                                         | -357.4402122          | -319.9858227         | Running |
| 07-Apr-25 13:00:00                                         | -358.8295908          | -305.3106969         | Running |
| 07-Apr-25 14:00:00                                         | -344.359199           | -275.3716056         | Running |
| 07-Apr-25 15:00:00                                         | -325.1699018          | -259.8714622         | Running |
| 07-Apr-25 16:00:00                                         | -328.0551933          | -266.7534838         | Running |
| 07-Apr-25 17:00:00                                         | -342.5748022          | -281.5504086         | Running |
| 07-Apr-25 18:00:00                                         | -352.8628655          | -289.3199549         | Running |
| 07-Apr-25 19:00:00                                         | -347.2115131          | -278.479745          | Running |
| 07-Apr-25 20:00:00                                         | -341.6187258          | -273.9197944         | Running |
| 07-Apr-25 21:00:00                                         | -376.7551212          | -311.1178659         | Running |
| 07-Apr-25 22:00:00                                         | -377.020618           | -306.0201321         | Running |
| 07-Apr-25 23:00:00                                         | -375.7994684          | -305.3484807         | Running |
| 08-Apr-25 00:00:00                                         | -381.9242585          | -307.3993758         | Running |
| 08-Apr-25 01:00:00                                         | -383.7051552          | -308.2731774         | Running |
| 08-Apr-25 02:00:00                                         | -386.6071968          | -311.1896554         | Running |
| 08-Apr-25 03:00:00                                         | -369.7898245          | -293.3349095         | Running |
| 08-Apr-25 04:00:00                                         | -377.2303274          | -303.3828266         | Running |
| 08-Apr-25 05:00:00                                         | -352.5659993          | -278.4100698         | Running |
| 08-Apr-25 06:00:00                                         | -324.46998            | -258.6952759         | Running |
| 08-Apr-25 07:00:00                                         | -332.7582458          | -266.0626314         | Running |
| 08-Apr-25 08:00:00                                         | -343.7077019          | -272.6473128         | Running |
| 08-Apr-25 09:00:00                                         | -344.316179           | -273.8418868         | Running |
| 08-Apr-25 10:00:00                                         | -343.2372456          | -273.5344558         | Running |
| 08-Apr-25 11:00:00                                         | -346.7582469          | -274.0845382         | Running |
| 08-Apr-25 12:00:00                                         | -355.4467679          | -278.4899945         | Running |
| 08-Apr-25 13:00:00                                         | -370.785115           | -289.6732012         | Running |
| 08-Apr-25 14:00:00                                         | -383.9546405          | -306.3917423         | Running |
| 08-Apr-25 15:00:00                                         | -382.2135076          | -305.1831254         | Running |
| 08-Apr-25 16:00:00                                         | -384.1293896          | -305.1287752         | Running |
| 08-Apr-25 17:00:00                                         | -387.4711337          | -303.4979672         | Running |
| 08-Apr-25 18:00:00                                         | -402.9576259          | -311.4519511         | Running |
| 08-Apr-25 19:00:00                                         | -402.5981576          | -310.2497316         | Running |
| 08-Apr-25 20:00:00                                         | -358.5580793          | -278.3726262         | Running |
| 08-Apr-25 21:00:00                                         | -340.978523           | -261.522504          | Running |
| 08-Apr-25 22:00:00                                         | -337.7341181          | -263.2216709         | Running |
| 08-Apr-25 23:00:00                                         | -342.8819703          | -265.6442378         | Running |
| 09-Apr-25 00:00:00                                         | -344.6125424          | -265.9470226         | Running |
| 09-Apr-25 01:00:00                                         | -346.4079387          | -268.2159765         | Running |
| 09-Apr-25 02:00:00                                         | -347.9502727          | -276.0755944         | Running |
| 09-Apr-25 03:00:00                                         | -341.1222174          | -266.3600845         | Running |
| 09-Apr-25 04:00:00                                         | -346.5957619          | -272.1917076         | Running |
| 09-Apr-25 05:00:00                                         | -345.5269984          | -270.3636954         | Running |
| 09-Apr-25 06:00:00                                         | -346.2688777          | -273.7808883         | Running |
| 09-Apr-25 07:00:00                                         | -343.2013916          | -266.7927671         | Running |
| 09-Apr-25 08:00:00                                         | -342.1762894          | -267.4070381         | Running |
| 09-Apr-25 09:00:00                                         | -346.2643277          | -270.9424681         | Running |
| 09-Apr-25 10:00:00                                         | -344.3150229          | -270.68972           | Running |
| 09-Apr-25 11:00:00                                         | -343.4873556          | -271.1229519         | Running |
| 09-Apr-25 12:00:00                                         | -344.3216674          | -274.3220203         | Running |
| 09-Apr-25 13:00:00                                         | -341.1873964          | -277.4600142         | Running |
| 09-Apr-25 14:00:00                                         | -345.1243734          | -274.3656557         | Running |
| 09-Apr-25 15:00:00                                         | -359.4229614          | -288.8133712         | Running |
| 09-Apr-25 16:00:00                                         | -384.3385746          | -322.1688028         | Running |
| 09-Apr-25 17:00:00                                         | -387.1858245          | -320.2988958         | Running |
| 09-Apr-25 18:00:00                                         | -394.7580658          | -321.406955          | Running |
| 09-Apr-25 19:00:00                                         | -384.8998735          | -309.8681997         | Running |
| 09-Apr-25 20:00:00                                         | -381.6329626          | -310.0752987         | Running |
| 09-Apr-25 21:00:00                                         | -375.8355007          | -301.390183          | Running |
| 09-Apr-25 22:00:00                                         | -365.1673354          | -288.8333355         | Running |
| 09-Apr-25 23:00:00                                         | -374.0282162          | -296.9477064         | Running |
| 10-Apr-25 00:00:00                                         | -376.7500017          | -300.4179298         | Running |
| 10-Apr-25 01:00:00                                         | -371.3224389          | -296.2888995         | Running |

|                    |              |              |         |
|--------------------|--------------|--------------|---------|
| 10-Apr-25 02:00:00 | -367.2613005 | -293.2851481 | Running |
| 10-Apr-25 03:00:00 | -369.4043847 | -293.4736775 | Running |
| 10-Apr-25 04:00:00 | -374.8857738 | -295.0059446 | Running |
| 10-Apr-25 05:00:00 | -392.4789525 | -308.9345476 | Running |
| 10-Apr-25 06:00:00 | -383.0915809 | -304.8271996 | Running |
| 10-Apr-25 07:00:00 | -386.0581747 | -309.2991326 | Running |
| 10-Apr-25 08:00:00 | -386.744682  | -308.4064526 | Running |
| 10-Apr-25 09:00:00 | -385.288516  | -306.4819551 | Running |
| 10-Apr-25 10:00:00 | -390.844472  | -312.2261055 | Running |
| 10-Apr-25 11:00:00 | -396.0281848 | -322.0694071 | Running |
| 10-Apr-25 12:00:00 | -395.9078301 | -319.7675134 | Running |
| 10-Apr-25 13:00:00 | -376.6470711 | -305.2861189 | Running |
| 10-Apr-25 14:00:00 | -369.1045018 | -292.0759878 | Running |
| 10-Apr-25 15:00:00 | -375.5191246 | -301.964909  | Running |
| 10-Apr-25 16:00:00 | -377.4932195 | -302.6912089 | Running |
| 10-Apr-25 17:00:00 | -383.0608776 | -305.0233483 | Running |
| 10-Apr-25 18:00:00 | -374.4459974 | -303.9354657 | Running |
| 10-Apr-25 19:00:00 | -356.697733  | -285.508281  | Running |
| 10-Apr-25 20:00:00 | -358.4527925 | -287.0194277 | Running |
| 10-Apr-25 21:00:00 | -354.9644666 | -288.058238  | Running |
| 10-Apr-25 22:00:00 | -351.1604767 | -286.3230563 | Running |
| 10-Apr-25 23:00:00 | -360.3653018 | -292.6134399 | Running |
| 11-Apr-25 00:00:00 | -358.7106608 | -287.7920765 | Running |
| 11-Apr-25 01:00:00 | -368.6846993 | -289.6314216 | Running |
| 11-Apr-25 02:00:00 | -369.8262859 | -278.8635051 | Running |
| 11-Apr-25 03:00:00 | -372.5955077 | -282.6120564 | Running |
| 11-Apr-25 04:00:00 | -373.9709492 | -297.0734667 | Running |
| 11-Apr-25 05:00:00 | -390.4101304 | -303.7891917 | Running |
| 11-Apr-25 06:00:00 | -388.916006  | -308.1742278 | Running |
| 11-Apr-25 07:00:00 | -398.4254618 | -322.2943034 | Running |
| 11-Apr-25 08:00:00 | -382.2319238 | -314.9917359 | Running |
| 11-Apr-25 09:00:00 | -400.0955028 | -346.968618  | Running |
| 11-Apr-25 10:00:00 | -398.0841363 | -345.5739512 | Running |
| 11-Apr-25 11:00:00 | -401.4755941 | -345.5540022 | Running |
| 11-Apr-25 12:00:00 | -405.4929563 | -354.3844569 | Running |
| 11-Apr-25 13:00:00 | -415.4840097 | -362.8010683 | Running |
| 11-Apr-25 14:00:00 | -423.1342709 | -371.717859  | Running |
| 11-Apr-25 15:00:00 | -413.9324611 | -366.5231063 | Running |
| 11-Apr-25 16:00:00 | -406.0831485 | -358.7803977 | Running |
| 11-Apr-25 17:00:00 | -417.2176779 | -372.5664769 | Running |
| 11-Apr-25 18:00:00 | -415.3626154 | -370.7902191 | Running |
| 11-Apr-25 19:00:00 | -415.6816332 | -371.1068914 | Running |
| 11-Apr-25 20:00:00 | -401.4460094 | -349.4628423 | Running |
| 11-Apr-25 21:00:00 | -405.379211  | -353.3288838 | Running |
| 11-Apr-25 22:00:00 | -412.4556221 | -356.5095174 | Running |
| 11-Apr-25 23:00:00 | -383.2951012 | -334.4037454 | Running |

| ECA 6394-D78PR2 10.1.a.iv Presure in the Process - Kiln and Raw Mill |                   |                      |                     |         |          |
|----------------------------------------------------------------------|-------------------|----------------------|---------------------|---------|----------|
| Date                                                                 | Presesure - Riser | Pressure - Kiln Hood | Pressure - Raw Mill | Kiln    | Raw Mill |
| 07-Apr-25 00:00:00                                                   | -0.853686604      | -3.039303515         | -9.992819842        | Running | Stopped  |
| 07-Apr-25 01:00:00                                                   | -19.64185085      | -3.133968756         | -4.733417765        | Running | Stopped  |
| 07-Apr-25 02:00:00                                                   | -18.63118557      | -3.053464932         | 8.296457214         | Running | Stopped  |
| 07-Apr-25 03:00:00                                                   | -17.98955292      | -3.078865711         | -5.168908119        | Running | Stopped  |
| 07-Apr-25 04:00:00                                                   | -16.78600883      | -2.889751811         | -6.810084165        | Running | Stopped  |
| 07-Apr-25 05:00:00                                                   | -16.64031791      | -3.102270804         | -14.77663618        | Running | Running  |
| 07-Apr-25 06:00:00                                                   | -16.37745744      | -3.052882356         | -13.01807679        | Running | Running  |
| 07-Apr-25 07:00:00                                                   | -16.86072996      | -3.091920329         | -16.90179847        | Running | Running  |
| 07-Apr-25 08:00:00                                                   | -20.28246388      | -2.894390446         | -14.0804999         | Running | Running  |
| 07-Apr-25 09:00:00                                                   | -21.0863877       | -2.73032165          | -20.91575255        | Running | Running  |
| 07-Apr-25 10:00:00                                                   | -20.01221902      | -3.049858543         | -19.93895185        | Running | Running  |
| 07-Apr-25 11:00:00                                                   | -19.68252937      | -3.056960239         | -18.59832808        | Running | Running  |
| 07-Apr-25 12:00:00                                                   | -21.62343526      | -3.0808589           | -20.30840289        | Running | Running  |
| 07-Apr-25 13:00:00                                                   | -22.7433494       | -2.761806392         | -18.10143352        | Running | Running  |
| 07-Apr-25 14:00:00                                                   | -23.96848805      | -3.355301302         | -28.71671057        | Running | Running  |
| 07-Apr-25 15:00:00                                                   | -24.80478856      | -3.164454236         | -43.77594748        | Running | Running  |
| 07-Apr-25 16:00:00                                                   | -23.43601437      | -3.196428488         | -20.74836831        | Running | Running  |
| 07-Apr-25 17:00:00                                                   | -22.5185596       | -3.026865347         | -0.86342421         | Running | Running  |
| 07-Apr-25 18:00:00                                                   | -25.03482768      | -3.013039986         | -6.797623816        | Running | Running  |
| 07-Apr-25 19:00:00                                                   | -25.26407481      | -3.082337676         | -5.242067973        | Running | Running  |
| 07-Apr-25 20:00:00                                                   | -18.14601489      | -3.140163379         | -31.4898692         | Running | Running  |
| 07-Apr-25 21:00:00                                                   | -20.73303989      | -3.072572608         | -51.06038134        | Running | Stopped  |
| 07-Apr-25 22:00:00                                                   | -25.93676077      | -2.988576242         | -17.13836022        | Running | Stopped  |
| 07-Apr-25 23:00:00                                                   | -27.79925399      | -3.058654063         | -5.737114906        | Running | Stopped  |
| 08-Apr-25 00:00:00                                                   | -15.6922455       | -3.165017585         | -4.592148812        | Running | Stopped  |
| 08-Apr-25 01:00:00                                                   | -18.25789989      | -3.003773364         | -3.712956342        | Running | Stopped  |
| 08-Apr-25 02:00:00                                                   | -24.01873855      | -3.053232869         | 4.768367038         | Running | Stopped  |
| 08-Apr-25 03:00:00                                                   | -24.09218694      | -3.198328483         | 16.80992966         | Running | Stopped  |
| 08-Apr-25 04:00:00                                                   | -21.87185569      | -2.872353118         | -12.38192298        | Running | Stopped  |
| 08-Apr-25 05:00:00                                                   | -21.04121322      | -2.962909559         | -5.413310885        | Running | Running  |
| 08-Apr-25 06:00:00                                                   | -10.79355293      | -3.234481486         | -40.7148787         | Running | Running  |
| 08-Apr-25 07:00:00                                                   | -2.819381645      | -2.931246742         | -30.1905326         | Running | Running  |
| 08-Apr-25 08:00:00                                                   | -4.092907713      | -3.058595354         | -18.4758285         | Running | Running  |
| 08-Apr-25 09:00:00                                                   | -5.131505289      | -3.000696303         | -24.29313442        | Running | Running  |
| 08-Apr-25 10:00:00                                                   | -5.73007795       | -2.954852407         | -13.58426382        | Running | Running  |
| 08-Apr-25 11:00:00                                                   | -6.383298152      | -3.1318052           | -19.44916905        | Running | Running  |
| 08-Apr-25 12:00:00                                                   | -7.245429942      | -2.995282926         | -42.70186731        | Running | Running  |
| 08-Apr-25 13:00:00                                                   | -19.88090489      | -2.935656138         | -56.32153291        | Running | Running  |
| 08-Apr-25 14:00:00                                                   | -32.01711582      | -3.214480021         | -16.12651256        | Running | Stopped  |
| 08-Apr-25 15:00:00                                                   | -34.93003318      | -3.062907488         | -3.031547945        | Running | Stopped  |
| 08-Apr-25 16:00:00                                                   | -32.55257926      | -3.095053834         | -3.676407326        | Running | Stopped  |
| 08-Apr-25 17:00:00                                                   | -34.14296851      | -2.961347721         | -6.087052626        | Running | Stopped  |
| 08-Apr-25 18:00:00                                                   | -37.06204645      | -2.994092375         | -8.771911744        | Running | Stopped  |
| 08-Apr-25 19:00:00                                                   | -41.25108742      | -3.002099143         | -7.491252009        | Running | Stopped  |
| 08-Apr-25 20:00:00                                                   | -37.13566681      | -3.022717343         | -15.86454156        | Running | Stopped  |
| 08-Apr-25 21:00:00                                                   | -29.59838301      | -3.1746056           | -26.007928          | Running | Running  |
| 08-Apr-25 22:00:00                                                   | -17.41396793      | -2.998555112         | -38.81933016        | Running | Running  |
| 08-Apr-25 23:00:00                                                   | -7.459731724      | -3.299894226         | -15.57377224        | Running | Running  |
| 09-Apr-25 00:00:00                                                   | -1.159954634      | -2.82829553          | -9.484265598        | Running | Running  |
| 09-Apr-25 01:00:00                                                   | -15.54858901      | -2.588628538         | -34.16117331        | Running | Running  |
| 09-Apr-25 02:00:00                                                   | -19.70676388      | -2.987413119         | -40.08578878        | Running | Running  |
| 09-Apr-25 03:00:00                                                   | -20.90763196      | -3.058284227         | -39.0413506         | Running | Running  |
| 09-Apr-25 04:00:00                                                   | -21.57404807      | -2.961844001         | -42.76480603        | Running | Running  |
| 09-Apr-25 05:00:00                                                   | -24.09336112      | -3.126837014         | -38.487851          | Running | Running  |
| 09-Apr-25 06:00:00                                                   | -23.54361412      | -3.12713021          | -45.60762341        | Running | Running  |
| 09-Apr-25 07:00:00                                                   | -26.31118194      | -3.014704069         | -42.76291988        | Running | Running  |
| 09-Apr-25 08:00:00                                                   | -25.40603989      | -3.080879876         | -42.53709412        | Running | Running  |
| 09-Apr-25 09:00:00                                                   | -25.52936134      | -2.995195245         | -42.09495027        | Running | Running  |
| 09-Apr-25 10:00:00                                                   | -13.65383377      | -2.978724125         | -37.43409716        | Running | Running  |
| 09-Apr-25 11:00:00                                                   | -4.089402173      | -3.140782714         | -37.55647206        | Running | Running  |
| 09-Apr-25 12:00:00                                                   | -4.414155733      | -3.016769603         | -39.08826405        | Running | Running  |
| 09-Apr-25 13:00:00                                                   | -14.66996113      | -2.959400482         | -35.8924495         | Running | Running  |
| 09-Apr-25 14:00:00                                                   | -19.91655098      | -3.332796785         | -23.77925146        | Running | Running  |
| 09-Apr-25 15:00:00                                                   | -21.11855512      | -2.951564359         | -35.00096632        | Running | Running  |
| 09-Apr-25 16:00:00                                                   | -24.43755401      | -3.022465805         | -24.17240723        | Running | Stopped  |
| 09-Apr-25 17:00:00                                                   | -25.00328954      | -2.956575045         | -15.94556023        | Running | Stopped  |
| 09-Apr-25 18:00:00                                                   | -25.90702         | -2.984349246         | -6.983486577        | Running | Stopped  |
| 09-Apr-25 19:00:00                                                   | -26.38972013      | -3.010500482         | -6.722835083        | Running | Stopped  |
| 09-Apr-25 20:00:00                                                   | -23.10397913      | -3.009063641         | 2.192825741         | Running | Stopped  |
| 09-Apr-25 21:00:00                                                   | -20.45877611      | -3.142544924         | 8.866710001         | Running | Stopped  |
| 09-Apr-25 22:00:00                                                   | -11.64962949      | -3.051658429         | -23.13012559        | Running | Running  |
| 09-Apr-25 23:00:00                                                   | -0.582933711      | -3.037546217         | -21.00404057        | Running | Running  |
| 10-Apr-25 00:00:00                                                   | -0.019310844      | -3.216285617         | -19.50300909        | Running | Running  |
| 10-Apr-25 01:00:00                                                   | -0.252081816      | -3.063306218         | -22.48929027        | Running | Running  |

|                    |              |              |              |         |         |
|--------------------|--------------|--------------|--------------|---------|---------|
| 10-Apr-25 02:00:00 | -3.903253983 | -2.874128626 | -15.92661809 | Running | Running |
| 10-Apr-25 03:00:00 | -16.98442637 | -3.046807156 | -12.14977837 | Running | Running |
| 10-Apr-25 04:00:00 | -16.67243325 | -2.923857734 | -10.54758996 | Running | Running |
| 10-Apr-25 05:00:00 | -19.14490376 | -3.057322119 | -43.2730039  | Running | Running |
| 10-Apr-25 06:00:00 | -17.75079119 | -3.120318085 | -0.122101752 | Running | Stopped |
| 10-Apr-25 07:00:00 | -16.32619307 | -3.018111712 | -11.26084659 | Running | Stopped |
| 10-Apr-25 08:00:00 | -21.02686842 | -3.070652036 | -8.945290338 | Running | Stopped |
| 10-Apr-25 09:00:00 | -22.3712265  | -3.068599377 | -6.916419289 | Running | Stopped |
| 10-Apr-25 10:00:00 | -22.33267188 | -3.039923604 | -0.55884464  | Running | Stopped |
| 10-Apr-25 11:00:00 | -21.99339247 | -3.032331823 | -17.02397236 | Running | Stopped |
| 10-Apr-25 12:00:00 | -20.70127745 | -3.055797602 | -24.25112025 | Running | Stopped |
| 10-Apr-25 13:00:00 | -14.67191326 | -2.992273777 | -37.18129773 | Running | Stopped |
| 10-Apr-25 14:00:00 | -16.78277162 | -3.216533051 | -30.26492136 | Running | Stopped |
| 10-Apr-25 15:00:00 | -10.12791992 | -2.999247119 | -6.420541261 | Running | Stopped |
| 10-Apr-25 16:00:00 | -0.949706355 | -2.924252826 | -12.21679772 | Running | Stopped |
| 10-Apr-25 17:00:00 | 0.039371505  | -2.916689387 | -9.499391747 | Running | Stopped |
| 10-Apr-25 18:00:00 | 0.033825365  | -3.069123568 | -8.936432088 | Running | Stopped |
| 10-Apr-25 19:00:00 | 0.028279226  | -3.03231683  | -30.28134768 | Running | Stopped |
| 10-Apr-25 20:00:00 | 0.022733086  | -3.04946312  | -37.08609169 | Running | Running |
| 10-Apr-25 21:00:00 | 0.017186946  | -2.907682244 | -35.18222682 | Running | Running |
| 10-Apr-25 22:00:00 | 0.011640806  | -3.15831497  | -40.39479144 | Running | Running |
| 10-Apr-25 23:00:00 | 0.006094667  | -3.021830755 | -38.98434951 | Running | Running |
| 11-Apr-25 00:00:00 | -0.023765361 | -2.949251763 | -36.79718807 | Running | Running |
| 11-Apr-25 01:00:00 | -0.321228104 | -2.976310441 | -42.33211395 | Running | Running |
| 11-Apr-25 02:00:00 | -9.304276289 | -3.089717406 | -28.50195918 | Running | Running |
| 11-Apr-25 03:00:00 | -6.900517282 | -2.951586683 | -39.55010916 | Running | Running |
| 11-Apr-25 04:00:00 | -3.178763831 | -3.16395819  | -43.51864074 | Running | Running |
| 11-Apr-25 05:00:00 | -0.298104037 | -2.977855891 | -35.60501706 | Running | Running |
| 11-Apr-25 06:00:00 | -0.367536178 | -3.149076548 | -30.62940758 | Running | Running |
| 11-Apr-25 07:00:00 | -4.398991326 | -2.86552393  | -40.93760146 | Running | Running |
| 11-Apr-25 08:00:00 | -12.90133524 | -3.080538159 | -32.01205094 | Running | Running |
| 11-Apr-25 09:00:00 | -3.57963548  | -2.964127537 | -38.52058823 | Running | Running |
| 11-Apr-25 10:00:00 | -14.60506096 | -3.103234173 | -38.06868683 | Running | Running |
| 11-Apr-25 11:00:00 | -14.18557302 | -3.047295085 | -33.83433169 | Running | Running |
| 11-Apr-25 12:00:00 | -9.157821861 | -3.128750709 | -10.99057872 | Running | Running |
| 11-Apr-25 13:00:00 | -8.277790251 | -3.147431703 | -21.99895518 | Running | Running |
| 11-Apr-25 14:00:00 | -18.2813773  | -3.067252285 | -24.27377701 | Running | Running |
| 11-Apr-25 15:00:00 | -5.606309132 | -3.074218661 | -54.64025241 | Running | Running |
| 11-Apr-25 16:00:00 | -11.00661783 | -3.106075532 | -55.00274053 | Running | Running |
| 11-Apr-25 17:00:00 | -23.82572156 | -3.050681493 | -52.38727188 | Running | Running |
| 11-Apr-25 18:00:00 | -6.08053956  | -3.078468732 | -50.55173001 | Running | Running |
| 11-Apr-25 19:00:00 | -23.5092389  | -3.073957777 | -57.37834136 | Running | Running |
| 11-Apr-25 20:00:00 | -25.0358985  | -3.077835023 | -39.60494835 | Running | Running |
| 11-Apr-25 21:00:00 | -24.33602327 | -2.974637965 | -41.74603399 | Running | Running |
| 11-Apr-25 22:00:00 | -17.02259542 | -2.807297096 | -44.9459965  | Running | Running |
| 11-Apr-25 23:00:00 | -14.20530096 | -3.20796783  | -53.45363579 | Running | Running |

4/7/2025

4/12/2025

\*wasn't running; have plans to backfill once the analyzer is back online

| Birthday   | date               | thc | kiln running |
|------------|--------------------|-----|--------------|
| 45754.0000 | 07-Apr-25 00:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 01:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 02:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 03:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 04:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 05:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 06:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 07:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 08:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 09:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 10:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 11:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 12:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 13:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 14:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 15:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 16:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 17:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 18:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 19:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 20:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 21:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 22:00:00 |     | 0 Running    |
| 45754.0000 | 07-Apr-25 23:00:00 |     | 0 Running    |
| 45755.0000 | 08-Apr-25 00:00:00 |     | 0 Running    |
| 45755.0000 | 08-Apr-25 01:00:00 |     | 0 Running    |
| 45755.0000 | 08-Apr-25 02:00:00 |     | 0 Running    |
| 45755.0000 | 08-Apr-25 03:00:00 |     | 0 Running    |
| 45755.0000 | 08-Apr-25 04:00:00 |     | 0 Running    |
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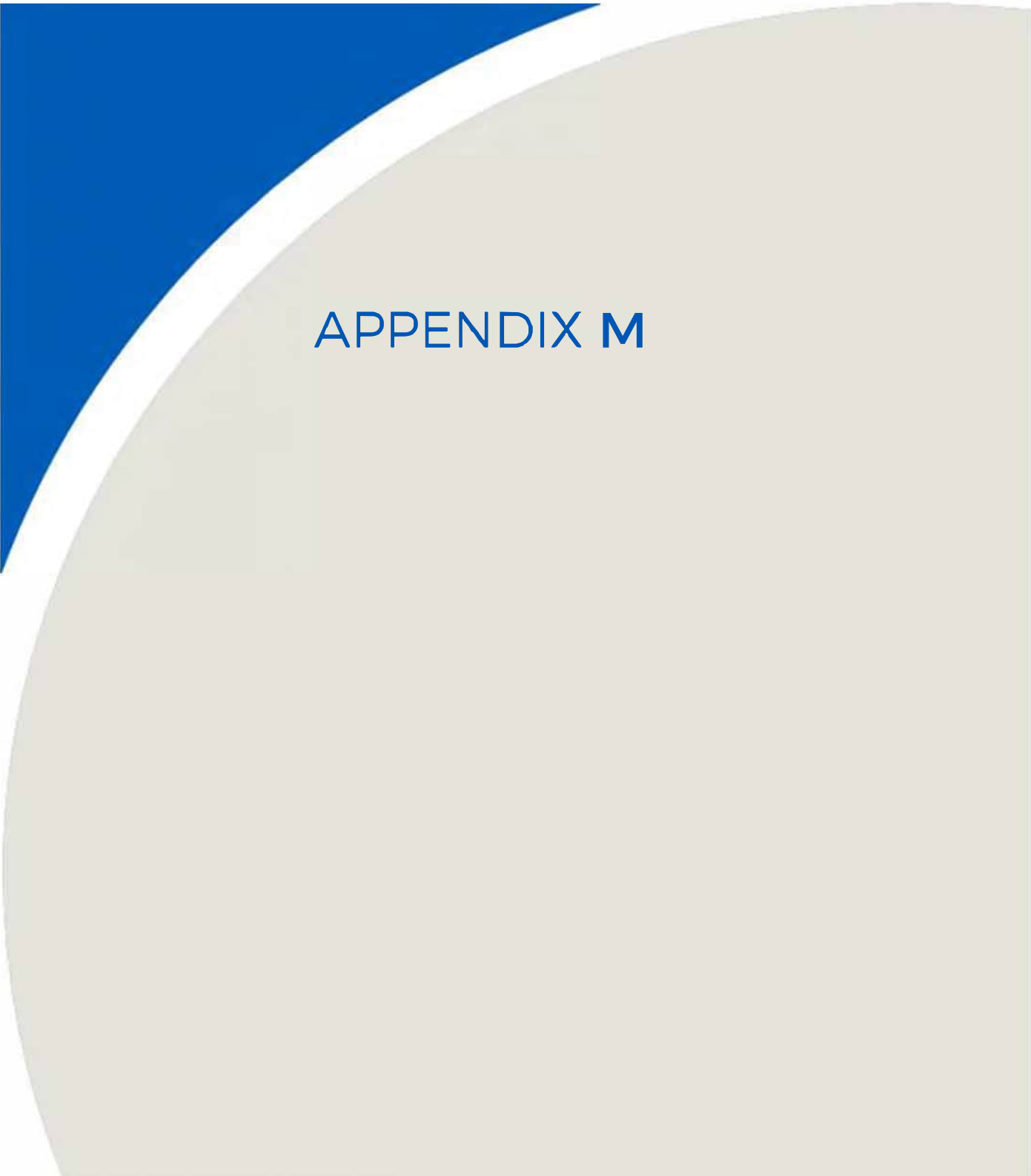
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A large decorative graphic on the left side of the page. It features a blue triangular shape at the top left, a white curved line separating it from a large light beige circular area, and a thin white curved line separating the beige area from the rest of the page.

## APPENDIX M

## List of Participants

| Individuals     | Role                  | Company                       | Contact Information                                                                      |
|-----------------|-----------------------|-------------------------------|------------------------------------------------------------------------------------------|
| Karri Legarrie  | Project Management    | RWDI                          | <a href="mailto:karri.legarrie@rwdi.com">karri.legarrie@rwdi.com</a>                     |
| Adam Tran, QSTI | Stack Sampling        | RWDI                          | <a href="mailto:adam.tran@rwdi.com">adam.tran@rwdi.com</a>                               |
| Sydney Meunier  | Stack Sampling        | RWDI                          | <a href="mailto:sydney.meunier@rwdi.com">sydney.meunier@rwdi.com</a>                     |
| Matthew Bradley | Stack Sampling        | RWDI                          | <a href="mailto:matthew.bradley@rwdi.com">matthew.bradley@rwdi.com</a>                   |
| Preet Bhamrah   | Stack Sampling        | RWDI                          | <a href="mailto:preet.bhamrah@rwdi.com">preet.bhamrah@rwdi.com</a>                       |
| Kara Pelissero  | Environmental Manager | SMC St Marys                  | <a href="mailto:kara.pelissero@vcimentos.com">kara.pelissero@vcimentos.com</a>           |
| Robert Chin     | Lab Analysis          | ALS Environmental Laboratory  | <a href="mailto:robert.chin@alsglobal.com">robert.chin@alsglobal.com</a>                 |
| Courtney Adkins | Lab Analysis (VOST)   | Eurofins Knoxville Laboratory | <a href="mailto:Courtney.Adkins@et.eurofinsus.com">Courtney.Adkins@et.eurofinsus.com</a> |



# Source Evaluation Society

**P. O. Box 12124  
Research Triangle Park  
North Carolina 27709**

January 2, 2024

Adam Tran  
RWDI Air Inc.  
509-1098 Paisley Rd  
Guelph ON N1K 0E3  
CANADA

Subject: Qualified Source Tester Certificate No. 2024-1168

**Qualification Notice - Manual Gas Volume Measurements and Isokinetic  
Particulate Sampling Methods** (exam date: 11/14/24)

Dear Mr Tran:

It is my pleasure to inform you that you have satisfied the requirements of the Source Evaluation Society Qualified Source Test Individual program for group exam(s) listed above. As a member of the successful candidates in this SES program, you should be proud of this distinction within the source emissions testing community. I am confident that you will continue to uphold the standards of technical excellence and ethical conduct embodied in the SES mission statement.

The enclosed Qualification Notice(s) and SES identification card are your permanent record of this achievement. This status is valid for the period shown on the Qualification Notices.

Congratulations on your achievement and I wish you continued success in your future endeavors.

Sincerely yours,

Peter R. Westlin  
SES QSTI/QSTO Review Committee Chairman

cc: J. Wade Bice, SES QSTI/QSTO Review Board Member  
Glenn England, SES QSTI/QSTO Review Board Member  
Karen D. Kajiya-Mills, SES QSTI/QSTO Review Board Member  
Theresa M. Lowe, SES QSTI/QSTO Review Committee Administrator  
Tommy Lotz, Jr., SES QSTI/QSTO Review Board Member  
Bruce C. Randall, SES QSTI/QSTO Review Board Member  
J. Wade Bice, SES QSTI/QSTO Review Board Member  
Tina Sanderson, SES QSTI/QSTO Review Board Member



# Source Evaluation Society

**P. O. Box 12124  
Research Triangle Park  
North Carolina 27709**

An idea was introduced at the 2006 SSSAAP conference to list those individuals who have received their QSTI qualification approvals on the SES web site. The SES Board of Directors determined that individuals would have to approve in writing before making public such information. The QSTI Committee would like your permission to post the information shown below on the SES web site for public view. This information will be provided on the website as a link to an Excel spreadsheet. Your information will be listed as below or with any changes you indicate:

|                     |                          |                     |                                           |
|---------------------|--------------------------|---------------------|-------------------------------------------|
| Name                | Adam Tran                |                     |                                           |
| Company             | RWDI Air Inc.            |                     |                                           |
| City/State/Zip:     | Guelph ON CANADA N1K 0E3 |                     |                                           |
| Contact Info.:      | adam.tran@rwdi.com       |                     |                                           |
| Passed:             | Group 1                  | Exam Date: 11/14/24 | Valid From - To: 11/14/2024 to 11/13/2029 |
| QSTI Certificate #: | 2024-1168                |                     |                                           |

You may view the current spreadsheet format at the SES website at [www.sesnews.org](http://www.sesnews.org). If you agree to your name and information being posted, please sign below and email to Theresa Lowe at [qstiprogram@gmail.com](mailto:qstiprogram@gmail.com). Also, if you wish to have your contact information listed other than your email address, please note any changes above (e.g., an address, telephone or a cell phone number, etc.). Any further changes or additions will need to be made in writing and emailed to Theresa Lowe at [qstiprogram@gmail.com](mailto:qstiprogram@gmail.com).

Thank you,

Theresa Lowe  
SES QSTI/QSTO Review Committee Administrator

*I give the SES QSTI/QSTO Review Committee approval to have my name and information as outlined above to be posted on the SES web site. Any changes have been noted above. This approval extends to any future exams for which I receive a QSTI or QSTO Qualification Approval(s).*

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

DO YOU APPROVE SES RELEASING INFORMATION, UPON REQUEST, ABOUT WHETHER YOU HAVE PASSED A METHOD GROUP EXAM? (The information released will be if you passed an exam and the date of the exam. This information is in support of ASTM D-7036-D.) YES ☐ NO ☐ IF YOU AGREE, PLEASE SIGN BELOW.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# SOURCE EVALUATION SOCIETY



## Qualified Source Testing Individual

LET IT BE KNOWN THAT

**ADAM TRAN**

HAS SUCCESSFULLY PASSED A COMPREHENSIVE EXAMINATION AND SATISFIED  
EXPERIENCE REQUIREMENTS IN ACCORDANCE WITH THE GUIDELINES  
ISSUED BY THE SES QUALIFIED SOURCE TEST INDIVIDUAL REVIEW BOARD FOR

**MANUAL GAS VOLUME MEASUREMENTS AND ISOKINETIC PARTICULATE  
SAMPLING METHODS**

ISSUED THIS 14<sup>TH</sup> DAY OF NOVEMBER 2024 AND EFFECTIVE UNTIL NOVEMBER 13<sup>TH</sup>, 2029

Peter R. Westlin, QSTI/QSTO Review Board

Tommy Lotz, QSTI/QSTO Review Board

Tina Sanderson, QSTI/QSTO Review Board

J. Wade Bice, QSTI/QSTO Review Board

Karen D. Kajiya-Mills, QSTI/QSTO Review Board

Bruce Randall QSTI/QSTO Review Board

CERTIFICATE  
NO.  
2024-1168

