

MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

April 17, 2025

To Whom It May Concern:

Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of April. Laboratory analysis indicates that the estimated TO Control Efficiency is calculated as 1 – (348/4944) resulting in an efficiency of approximately 93%.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at johnpaolo.quinto@mann-hummel.com.

Sincerely,

John Paolo Quinto, REHS

**HSE Specialist** 

| Run Time (Hours)  Operating Temp.  Operational Status  Operations (if any)  10  1,406  Operational  12  1,406  Operational  None  8  1,405  Operational  None  80  1,406  Operational  None  80  1,406  Operational  None  80  1,406  Operational  None  | 12-Mar 11 1,406 Operational None N/A | 13-Mar 20 1,406 Operational None N/A |    | 16-Mar 79 | None 79 | 9.5 1,406 Operational None 12 1,406 Operational None | 9.5 1,406 Operational None  12 1,406 Operational None  20 1,407 Operational None | 9.5 1,406 Operational None  12 1,406 Operational None  20 1,407 Operational None  20 1,406 Operational None | 9.5 1,406 Operational None 12 1,406 Operational None 20 1,407 Operational None 20 1,406 Operational None 19 1,406 Operational None | 9.5 1,406 Operational None 12 1,406 Operational None 20 1,407 Operational None 20 1,406 Operational None 19 1,406 Operational None | 9.5 1,406 Operational None 12 1,406 Operational None 20 1,407 Operational None 20 1,406 Operational None 19 1,406 Operational None 19 1,406 Operational None | 9.5 1,406 Operational None 12 1,406 Operational None 20 1,407 Operational None 20 1,406 Operational None 19 1,406 Operational None 19 1,406 Operational None 10 1,406 Operational None | 9.5 1,406 Operational None 12 1,406 Operational None 20 1,407 Operational None 20 1,406 Operational None 19 1,406 Operational None 11 1,406 Operational None 20 1,407 Operational None | 9.5 1,406 Operational None 12 1,406 Operational None 20 1,407 Operational None 20 1,406 Operational None 19 1,406 Operational None 19 1,406 Operational None 20 1,406 Operational None 20 1,407 Operational None 20 1,407 Operational None |
|--|--------------------------------------|--------------------------------------|----|-----------|---------|--|--|---|--|--|--|--|--|--|
| Deviations (if any)   Cause of Deviations (if any)   Cause o |                                      |                                      | 79 |           |         |  |  |   |  |  | 80.5   | 80.5   | 80.5   | 80.5   |
| viation  | N/A None                             |                                      |    |           |         |  |  |   |  |  |  |  |  |  |
| Setup Setup  |                                      |                                      |    |           | Setup   | Setup  | Setup  | Setup   | Setup  | Setup  | Setup  | Setup  | Setup  | Setup  |

| Setup; Nothing Scheduled To Rur | None | N/A | None | Operational | 640   | 0  | 31-Mar |
|---------------------------------|------|-----|------|-------------|-------|----|--------|
|                                 |      |     | 82   |             |       |    | 30-Mar |
|                                 |      |     |      |             |       |    | 29-Mar |
|                                 | None | N/A | None | Operational | 1,406 | 19 | 28-Mar |
|                                 |      |     |      |             |       |    |        |



**CLIENT** 

: Geosyntec Consultants

PROJECT NAME

: Mann + Hammel

PROJECT NUMBER

: SB1250

AAC PROJECT NO.

: 250843 Rev.1

REPORT DATE

: 04/17/2025

On April 2, 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters and one (1) Tedlar Bag for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID               | Lab No.      | Return Pressure (mmHg) |
|-------------------------|--------------|------------------------|
| Inlet-1-20250402        | 250843-73635 | 588.5                  |
| Outlet-1-20250402       | 250843-73636 | 592.7                  |
| Scrubber-Inlet-4 2 2025 | 250843-73637 | -                      |

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

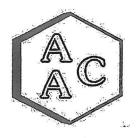
If you have any questions or require further explanation of data results, please contact the undersigned.

udha Parpiar, Ph/C

Technical Director

This report consists of 4 pages.

Amended Report 250843 Rev 1 supersedes Original Report 250843. The amended report was issued on 04/17/2025. Per Client request, sample "Scrubber-Inlet-4\_2\_2025" was not reported.



### LABORATORY ANALYSIS REPORT

**CLIENT:** Geosyntec Consultants

PROJECT NO.: 250843 Rev. 1

MATRIX : Air UNITS : ppmV **SAMPLING DATE: 04/02/2025** 

RECEIVING DATE: 04/02/2025

ANALYSIS DATE: 04/03/2025 REPORT DATE: 04/17/2025

### C<sub>1</sub> to C<sub>6</sub>+Hydrocarbons by EPA 18 Modified

| Client ID                    | Inlet-1-2  | 20250402              |             |        | -20250402             |             |                 |
|------------------------------|--|-----------------------|-------------|--------|-----------------------|-------------|-----------------|
| AAC ID                       | 250843   | 3-73635               | SRL         | 25084  | 13-73636              | SRL         | Reporting Limit |
| Canister Dil. Fac.           | 1  | .5                    | (RL x DF's) |        | 1.8                   | (RL x DF's) |                 |
| Analyte                      | Result   | Analysis Dil.<br>Fac. | (READI S)   | Result | Analysis Dil.<br>Fac. | (READI 5)   | (/              |
| Methane                      | 3.3  | 1 .                   | 0.8         | 8.6    | 1                     | 0.8         | 0.5             |
| C <sub>2</sub> (as Ethane)   | <srl< td=""><td>1</td><td>0.8</td><td>33.7</td><td>1</td><td>0.8</td><td>0.5</td></srl<> | 1                     | 0.8         | 33.7   | 1                     | 0.8         | 0.5             |
| C <sub>3</sub> (as Propane)  | <srl< td=""><td>1</td><td>0.8</td><td>26.1</td><td>1</td><td>0.8</td><td>0.5</td></srl<> | 1                     | 0.8         | 26.1   | 1                     | 0.8         | 0.5             |
| C <sub>4</sub> (as Butane)   | <srl< td=""><td>1</td><td>0.8</td><td>27.3</td><td>1</td><td>0.8</td><td>0.5</td></srl<> | 1                     | 0.8         | 27.3   | 1                     | 0.8         | 0.5             |
| C <sub>5</sub> (as Pentane)  | <srl< td=""><td>1</td><td>0.8</td><td>12.6</td><td>1</td><td>0.8</td><td>0.5</td></srl<> | 1                     | 0.8         | 12.6   | 1                     | 0.8         | 0.5             |
| C <sub>6</sub> (as Hexane)   | <srl< td=""><td>1</td><td>0.8</td><td>5.7</td><td>1</td><td>0.8</td><td>0.5</td></srl<>  | 1                     | 0.8         | 5.7    | 1                     | 0.8         | 0.5             |
| C <sub>6</sub> + (as Hexane) | 840  | 1                     | 0.8         | 11.3   | 1                     | 0.8         | 0.5             |
| THC (as Methane)             | 4947   | 1                     | 0.8         | 424    | 1                     | 0.8         | 0.5             |
| TNMHC (as Methane)           | 4944   | 1                     | 0.8         | 416    | 1                     | 0.8         | 0.5             |
| TNMNEHC (as Methane)         | 4944   | 1                     | 0.8         | . 348  | 1                     | 0.8         | 0.5             |

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

THC - Total Hydrocarbons Reported as Methane

TNMHC - Total Non-Methane Hydrocarbons Reported as Methane

TNMNEHC - Total Non-Methane Non-Ethane Hydrocarbons Reported as Methane



### Quality Control/Quality Assurance Report

Date Analyzed: 04/03/2025 Analyst

: SS

Units

: ppmv

Instrument ID : FID#6

Calb Date

: 11/18/2024

Reporting Limit: 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

| AAC ID Analyte |      | Ethane | Propane | Butane | Pentane | Нехапе |
|----------------|------|--------|---------|--------|---------|--------|
| Spike Conc     | 99.7 | 98.2   | 100.0   | . 99.8 | 99.9    | 100.1  |
| CCV Result     | 98.2 | 96.5   | 99.2    | 100.2  | 100.5   | 102.4  |
| % Rec *        | 98.5 | 98.2   | 99.2    | 100.4  | 100.6   | 102.4  |

II - Method Blank - EPA 18 Mod

| AAC ID Analyte   | Methane | Efhane |    | Bufane | Pentane | Hexane |
|------------------|---------|--------|----|--------|---------|--------|
| MB Concentration | ND .    | ND     | ND | ND     | ND      | ND     |

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

| AAC ID Analyte        | Methane | Ethane | Propane | Butane  | Pentane | Hexane |
|-----------------------|---------|--------|---------|---------|---------|--------|
| Sample Conc           |         | 0.0    | 0.0     | 0.0     | 0.0     | 0.0    |
| Spike Conc            | 99.7    | 98.2   | 100.0   | 99.8    | 99.9    | 100.1  |
| LCS Result            | 108.7   | 106.4  | 110.7   | . 110.9 | 110.8   | 112.4  |
| Standards LCSD Result | 105.5   | 102.5  | 105.9   | 106.7   | 106.8   | 107.8  |
|                       | 109.1   | 108.3  | 110.8   | 111.2   | 111.0   | 112.3  |
| LCSD % Rec **         | 105.9   | 104.3  | 106.0   | 106.9   | 106.9   | 107.7  |
| % RPD ***             | 3.0     | 3.8    | 4.4     | 3.9     | 3.7     | 4.2    |

IV -Sample & Sample Duplicate - EPA 18 Mod

| AAC ID Analyte          | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|-------------------------|---------|--------|---------|--------|---------|--------|
| Sample                  | 0.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| 242803-67210 Sample Dup | 0.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
|                         | 0.0     | 0.0    | 0,0     | 0.0    | 0.0     | 0.0    |
| % RPD ***               | 0.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |

V - Matrix Spike & Duplicate- EPA 18 Mod

| AAC ID       | Analyte            | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------------|--------------------|---------|--------|---------|--------|---------|--------|
|              | Sample Conc        | 0.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
|              | ····Spike Conc ··· |         | 49.1   | 50.0    | 49.9   | 49.9    | 50.0   |
|              |                    |         | 49.2   | 50.7    | 51.0   | 51.3    | 51.9   |
| 242803-67210 | ::: MSD Result ::  | 51.8    | 50.0   | 52.1    | 52.2   | 52.3    | 53.6   |
|              | MS % Rec **        | 103.3   | 100.2  | 101.4   | 102.2  | 102.7   | 103.6  |
|              | MSD % Rec **:      | 104.0   | 101.8  | 104.3   | 104.7  | 104.7   | 107.1  |
|              | % RPD ***          | 0.7     | 1.5    | 2.9     | 2.4    | 1.8     | 3.3    |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| AAC:ID Analyte | Methane | Efhane | Propane | Butane | Pentane | Hexane |
|----------------|---------|--------|---------|--------|---------|--------|
| Spike Conc     | 99.7    | 98.2   | 100.0   | 99.8   | 99.9    | 100.1  |
| CCV Result     | 99.0    | 96.6   | 100.3   | 100.5  | 100.8   | 102.0  |
| % Rec *        |         | 98.4   | 100.3   | 100.7  | 100.9   | 101.9  |

<sup>\*</sup> Must be 85-115%

Page 3

<sup>\*\*</sup> Must be 75-125%

<sup>\*\*\*</sup> Must be < 25%

ND = Not Detected

<sup>&</sup>lt;RL = less than Reporting Limit

# CHAIN OF CUSTODY AND ANALYSIS REQUEST - Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

| Atmospheric Analysis and Consulting · Phone: 805-650-1642 · Email: info@aaclab.com · 2225 Sperry Ave, Ventu | g · Phone: 805          | -650-1642 · E    | mail: info@      | aaclab.com •       | 2225 Speri | y Ave, Ven | tura, CA 93003     |                        | AAC Project No.: | **                                   |
|---|-------------------------|------------------|------------------|--------------------|------------|------------|--------------------|------------------------|------------------|--------------------------------------|
| Client/Company Name   | <b>Project Name</b>     | ,,,              |                  |                    |            | Anal       | Analysis Requested |                        | Send Report To   | Send Report To (Name/Email/Address)  |
| GCOSUNTEL CONSULTING  | MANN +                  | oer timmings     | MEL              |                    | 8.         |            |                    |                        | MATHEM TUNN ?    | (C) IAM 2                            |
| MART DWNN   | 58125W                  | Ü                |                  |                    | D          |            |                    |                        | 64.0             | SKOSYMTYC, COM                       |
| Turnaround Time   | Sampler Name            | ē                |                  |                    | 10         |            |                    |                        | Send Invoice To  | Send Invoice To (Name/Email/Address) |
|   | Print: LEAH WACKAGLOFF. | I WG             | とすることも           | <u> </u>           | E'TI       |            |                    |                        |                  | 9                                    |
| ☐ Rush 72 h 🕦 Normal  | Signature:              | 3                |                  | ,                  | W          |            |                    |                        | PO Number        |                                      |
|   |                         | 9                |                  |                    | A          |            |                    |                        | LAB              | LAB USE ONLY                         |
| Client Sample Name  | Sample ID               | Sampling<br>Date | Sampling<br>Time | Container Type/Qty | EPI        |            |                    | : N N                  | (II de 1         | Sample Received                      |
| MUET-1-20250402   | VEN-600 4/2/25          |                  | oxol-opol        |                    | χ          | 73635      |                    |                        |                  | □FedEx                               |
| OUR 55-1-202504 002   | 000278 412125 000-1030  | મારાજ            | DE01-020         |                    | X          | 73636      |                    |                        |                  | □ UPS                                |
| SCRUBBER-INIET-4_2-2425   | BAG                     | 4/2/25           | 4191             |                    | Χ̈́        | 73637      |                    |                        |                  | □Other.                              |
|   |                         |                  |                  |                    |            |            |                    |                        |                  | Temperature                          |
|   |                         |                  |                  |                    |            |            |                    |                        |                  | Thormomator C                        |
|   |                         |                  |                  |                    |            |            |                    |                        |                  | 1D                                   |
|   |                         |                  |                  |                    |            |            |                    |                        |                  | Initials                             |
|   |                         |                  |                  |                    |            |            |                    |                        |                  | Returned Egmt                        |
|   |                         |                  |                  |                    |            |            |                    |                        |                  | Total cans:                          |
|   |                         |                  |                  |                    |            |            |                    |                        |                  | Unused cans:                         |
|   |                         |                  |                  |                    |            |            |                    |                        |                  | Flow Controllers:                    |
|   |                         |                  |                  |                    |            |            | KI.                |                        |                  |                                      |
| Client Notes/Special Instructions:  | ×                       |                  |                  |                    |            |            | EDD?               | LAB USE ONLY<br>Notes: |                  |                                      |
|   |                         |                  |                  |                    |            |            | □ No               |                        |                  |                                      |
| Relinquished By   |                         | Date             | Received By      | The same of        | 7          |            |                    |                        |                  |                                      |
| Signature: XXX  |                         | Time 150         | Signature:       |                    |            |            | TIME 7/2/25        |                        |                  |                                      |
| Relinquished By   |                         | Date             | Received By      |                    |            |            | Date               |                        | . ·              |                                      |
| Signature:  |                         | Time             | Signature:       |                    | 8          |            | Time               |                        |                  |                                      |

AAC COC Rev 3

plo- 2x cons Issued 02/04/2021



MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

May 20, 2025

To Whom It May Concern:

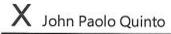
Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of April. Laboratory analysis indicates that the estimated TO Control Efficiency is calculated as 1- (348/4944) resulting in an efficiency of approximately 91%.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at <a href="mailto:johnpaolo.quinto@mann-hummel.com">johnpaolo.quinto@mann-hummel.com</a>.

Sincerely,

5/20/2025



John Paolo Quinto

Signed by: JohnPaolo.Quinto

| T W TH F Saturday Sunday M | 1-Apr<br>2-Apr<br>3-Apr<br>3-Apr<br>5-Apr<br>5-Apr<br>7-Apr | 20 (hours) 20 (hours) 20 20 20 20 20 20 | Rune Ilme (Hours) Operating Temp.  20 (hours) 1,406  20 1,406  20 1407  20 1408  0 696 | Status (Operational Operational Operational Operational Operational Operational Operational Operational Operational | erational onal onal onal onal onal onal onal | erational, Deviations (if any) onal None onal None onal None onal None onal None | tional, Deviat |
|----------------------------|---|---|--|---|--|--|----------------|
|                            | 8-Apr   | 5                                       | 1425   | Operational   |  | None   | 8 8 8 8 8      |
| TH ::                      | 10-Apr  | 20                                      | 1,406  | Operational   |  | None   | None N/A       |
| F                          | 11-Apr  | 7                                       | 1,406  | Operational   |  | None   |                |
| Saturday                   | 12-Apr  |   |  |   |  |  |                |
| Sunday                     | 13-Apr  |   |  |   |  |  |                |
| M                          | 14-Apr  | 0                                       | 686  | Operational   |  | None   | None N/A       |
| 1999                       | 15-Apr  | 20                                      | 1,406  | Operational   |  | None   |                |
| W                          | 16-Apr  | 19                                      | 1,407  | Operational   |  | None   |                |
| Ŧ                          | 17-Apr  | 20                                      | 1,406  | Operational   |  | None   | 2002           |
|                            | 18-Apr  | 0                                       | 670  | Operational   |  | None   |                |
| Saturday                   | 19-Apr  |   |  |   |  |  |                |
| Sunday                     | . 20-Apr  | ,                                       |  |   |  |  |                |
| M                          | 21-Apr  | 10                                      | 1,406  | Operational   |  | None   | None N/A       |
|                            | 22-Apr  | 18                                      | 1,406  | Operational   |  | None   | None N/A       |
| W                          | 23-Apr  | 20                                      | 1,406  | Operational   |  | None   | None N/A       |
| I                          | 24-Apr  | 16                                      | 1,406  | Operational   |  | None   | None N/A       |
| 1                          | 25-Apr  | 19                                      | 1,407  | Operational   |  | None   |                |
| Saturday                   | 26-Apr  |   |  |   |  |  |                |
| Sunday                     | 27-Apr  |   |  |   |  |  |                |
| M                          | 28-Apr  | 0                                       | 668  | Operational   |  | None   | None N/A       |
|                            | 29-Apr  | 6                                       | 1,407  | Operational   |  | None   | None N/A       |
| W                          | 30-Apr  | 13                                      | 1,406  | Operational   |  | None   | None           |



CLIENT

: Geosyntec Consultants

PROJECT NAME

Mann+Hummel

PROJECT NUMBER

SB1250

AAC PROJECT NO.

: 251075

REPORT DATE

: 05/07/2025

On April 30, 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID         | Lab No.      | Return Pressure (mmHg) |
|-------------------|--------------|------------------------|
| Inlet-1-20250430  | 251075-74687 | 638.4                  |
| Outlet-1-20250430 | 251075-74688 | 643.4                  |

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sudha Parmar/Ph.I Fechnical Director

This report consists of 4 pages

# LABORATORY ANALYSIS REPORT

CLIENT: Geosyntec Consultants

PROJECT NO.: 251075 MATRIX: Air

UNITS: ppmV

SAMPLING DATE: 04/30/2025 RECEIVING DATE: 04/30/2025

ANALYSIS DATE: 05/06/2025 REPORT DATE: 05/07/2025

### C1 to C6+ Hydrocarbons by EPA 18 Modified

| Client ID                    | Inlet-1-  | Inlet-1-20250430      |             | Outlet-1  | Jutlet-1-20250430     |             |                 |
|------------------------------|---|-----------------------|-------------|---|-----------------------|-------------|-----------------|
| AACID                        | 25107   | 251075-74687          | CDI         | 25107   | 251075-74688          | em r        |                 |
| Canister Dil. Fac.           |   | 1.4                   | DIA.        |   | 1.4                   | DAG.        | Keporting Limit |
| Analyte                      | Result  | Analysis Dil.<br>Fac. | (KL X DF S) | Result  | Analysis Dil.<br>Fac. | (RL x DF's) | (RL)            |
| Methane                      | 2.6   | · I                   | 0.7         | 7.8   | 1                     | 0.7         | 0.5             |
| C <sub>2</sub> (as Ethane)   | <srl< td=""><td>1</td><td>0.7</td><td>28.9</td><td>1</td><td>0.7</td><td>0.5</td></srl<>    | 1                     | 0.7         | 28.9  | 1                     | 0.7         | 0.5             |
| C <sub>3</sub> (as Propane)  | - SRL .   | 1                     | 0:7         | 25.2  | 1                     | 0.7         | 0.5             |
| C <sub>4</sub> (as Butane)   | <srl< td=""><td>ı</td><td>0.7</td><td>22.6</td><td>1</td><td>0.7</td><td>0.5</td></srl<>    | ı                     | 0.7         | 22.6  | 1                     | 0.7         | 0.5             |
| C <sub>5</sub> (as Pentane)  | <srl .<="" td=""><td>1</td><td>0.7</td><td>9.7</td><td>1</td><td>0.7</td><td>0.5</td></srl> | 1                     | 0.7         | 9.7   | 1                     | 0.7         | 0.5             |
| C <sub>6</sub> (as Hexane)   | <srl< td=""><td>1</td><td>0.7</td><td>3.3</td><td>1</td><td>0.7</td><td>0.5</td></srl<>     | 1                     | 0.7         | 3.3   | 1                     | 0.7         | 0.5             |
| C <sub>6</sub> + (as Hexane) | 429   | 1                     | 0.7         | <srl< td=""><td>1</td><td>0.7</td><td>0.5</td></srl<> | 1                     | 0.7         | 0.5             |
| THC (as Methane)             | 2409  | 1                     | 0.7         | 287   | 1                     | 0.7         | 0.5             |
| TNMHC (as Methane)           | 2406  | 1                     | 0.7         | 279   | 1                     | 0.7         | 0.5             |
| TNMNEHC (as Methane)         | 2406  | 1                     | 0.7         | 223   | 1                     | 0.7         | 0.5             |

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

THC - Total Hydrocarbons Reported as Methane

TNMHC - Total Non-Methane Hydrocarbons Reported as Methane

TNIMNEHC - Total Non-Methane Non-Ethane Hydrocarbons Reported as Methane





### Quality Control/Quality Assurance Report

Date Analyzed

: 05/06/2025

Analyst

: DG

Units

: ppmv

Instrument ID

: FID #3

Calb Date

: 11/09/24

Reporting Limit: 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

| AAC ID Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------|---------|--------|---------|--------|---------|--------|
| Spike Conc     | 99.7    | 98.2   | 100.0   | - 99,6 | 99.9    | 100.1  |
| CCV Result     | 86.0    | 84.4   | 86,4    | 86.3   | 86.7    | 87.6   |
| % Rec *        | 86.3    | 86.0   | 86.5    | 86.6   | 86.8    | 87.5   |

II - Method Blank - EPA 18 Mod

| SEEAACIDESE SEEAnalytesses | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------------------|---------|--------|---------|--------|---------|--------|
| MB. Concentration          | ND      | ND     | ND      | ND     | ND      | ND     |

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

| AAC ID Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------|---------|--------|---------|--------|---------|--------|
| Sample Conc    | 0.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| Spike Cone     | 99.7    | 98.2   | 100.0   | 99.6   | 99.9    | 100.1  |
| LCS Result     | 86.3    | 86,5   | 89.1    | 89.0   | 89.7    | 93.3   |
| LCSD Result    | 91.0    | 89.9   | 92.1    | 92.9   | 94.7    | 100.7  |
| LCS % Rec **   | 86.6    | 88.1   | 89.1    | 89.4   | 89.8    | 93.3   |
| LCSD % Rec **  | 91.3    | 91.5   | 92.1    | 93.3   | 94.8    | 100.6  |
| % RPD ***      | 5.2     | 3.8    | 3.4     | 4.3    | 5.4     | 7.6    |

IV -Sample & Sample Duplicate - EPA 18 Mod

| AAC ID Analyte          | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|-------------------------|---------|--------|---------|--------|---------|--------|
| Sample                  | 3.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| 250961-74175 Sample Dup | 3.1     | 0,0    | 0.0     | 0.0    | 0.0     | 0.0    |
| Mean                    | 3.1     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| % RPD ***               | 3.0     | . 0.0  | . 0.0   | 0.0    | 0.0     | 0.0    |

V - Matrix Spike & Duplicate- EPA 18 Mod

| AAC ID       | Analyte       | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------------|---------------|---------|--------|---------|--------|---------|--------|
|              | : Sample Conc | 1.5     | 0.0    | 0.0     | 0,0    | 0.0     | 0.0    |
|              | Spike Conc    | 49.8    | 49.1   | 50.0    | 49.8   | 49.9    | 50.0   |
|              | MS Result     | 48.4    | 46,4   | 47.4    | 48.1   | 49,2    | 52.8   |
| 250961-74175 | MSD Result    | 50.8    | 48.2   | 49.0    | 49.3   | 49.7    | 53.2   |
|              | M5 % Rec **   | 94.1    | 94.5   | 94.9    | 96.5   | 98.5    | 105.6  |
|              | MSD % Rec **  | 98.9    | 98.1   | 98.1    | 99.0   | 99.5    | 106.3  |
|              | % RPD ***     | 5.0     | 3.7    | 3.4     | 2.5    | 1.0     | 0.7    |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| Comment of the control of the contro | Vermication - ETA | TO IATOR | AND THE RESIDENCE OF THE PARTY |        |         |        |
|--|-------------------|----------|---|--------|---------|--------|
| AACID Analyte  | Methane           | Ethane   | Propane   | Butane | Pentane | Hexane |
| Spike Cone   | 99.7              | 98.2     | 100.0   | 99.6   | 99.9    | 100.1  |
| GCV Result   | 92.4              | 85.8     | 88.8  | 89.7   | 90.2    | 92.8   |
| % Rec *  | 92.7              | 87.3     | 88.8  | 90.0   | 90.3    | 92.8   |

<sup>\*</sup> Must be 85-115%

Page 3

<sup>\*\*</sup> Must be 75-125%

<sup>\*\*\*</sup> Must be < 25%

ND = Not Detected

<sup>&</sup>lt;RL = less than Reporting Limit

### 251075

CHAIN OF CUSTODY AND ANALYSIS REQUEST -- Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

|                                       |                  | <b>TO</b>      | Time          |            |                    | Signature:       | Time          |                             | Signature:  |
|---------------------------------------|------------------|----------------|---------------|------------|--------------------|------------------|---------------|-----------------------------|---|
|                                       |                  |                |               |            | ,                  | Print:           |               |                             | Print:  |
|                                       |                  | E .            | Date          |            | N /                | Received By      | Date          |                             | Relinquished By   |
|                                       |                  | Time 1339      | Time          |            | 1                  | Signature:       | Time /33      | (76.19.                     | m (1)   |
|                                       |                  | ) A            | Date          | 14         | 2                  | Received By      | Date          | 5                           | Relinquished By   |
|                                       |                  |                |               | \          |                    |                  |               |                             |   |
|                                       |                  |                | . □No         | \          |                    |                  |               |                             |   |
|                                       | Notes:           |                | □Yes          |            |                    |                  |               |                             |   |
|                                       | LAB USE ONLY     | 2800           | EDD?          |            |                    |                  |               | 1                           | Client Notes/Special Instructions:  |
|                                       |                  | •              | ,             |            |                    |                  |               |                             |   |
| Flow Controllers:                     |                  |                |               |            |                    |                  |               |                             |   |
| Unused cans:                          |                  |                |               |            |                    |                  |               | ,                           |   |
| Total cans:                           |                  |                |               |            |                    |                  |               |                             |   |
| Returned Eqmt                         |                  |                |               |            | \<br>\<br>\        |                  |               |                             |   |
| IIII(Idis                             |                  | 1              | -             |            |                    |                  |               |                             |   |
| hitisle                               |                  |                |               |            |                    | *                |               |                             |   |
| D                                     |                  | 1              |               |            |                    |                  |               |                             |   |
| Thermometer                           |                  |                |               |            |                    |                  |               |                             |   |
| i i                                   |                  |                |               |            |                    |                  |               |                             |   |
| Temperature                           |                  |                |               |            |                    |                  |               |                             |   |
| □Other                                |                  |                |               |            |                    |                  |               |                             |   |
| Courier                               |                  |                | 88926         | X          |                    | 1201-1231        | 4/20/2X       | 00 1721 4/2012 1201-1231    | 02h02-1-20220120  |
|                                       |                  |                | 14681         | )          |                    | 1671 147         | W.Jach        | 1671 -1671 18 Jack 1971 100 | 2000 - 1 - 00 CS W 9 50   |
| Thanky                                |                  |                | 1             | (          |                    | 17:01-1777       | الدوليا       | とういる                        | ていらて いっつかってらいっか   |
| Sample Received                       | Lab ID           |                |               | EP         | Container Type/Qty | Sampling<br>Time | Sampling Date | Sample ID                   | Client Sample Name  |
| LAB USE ONLY                          | MA.              |                | E1184         | A          |                    |                  |               |                             |   |
|                                       | PO Number        |                |               | ~          |                    |                  | محر           | Signature:                  |   |
|                                       |                  |                |               | \E1        | 0                  | Selve            | Sh Mich       | Print: Leah Muchaeloff      | ☐ Rush 24 h ☐ Same Day  |
| Send Invoice To (Name/Email/Address)  | Send Invoice To  |                |               | F-1        |                    |                  | ne            | Sampler Name                | lurnaround lime   |
| MODY TRAINISOSY                       | CHEDSHAT         |                |               | 00         |                    |                  |               | 381250                      | Mart Dunn   |
| MATTHEW, DUNN O                       | MATTHEM          |                |               | 18         |                    | Ś                |               | Project Number              | Project Manager Name  |
| Scilla report to (Name/Email/Address) | Selle inchest in | - dans         |               |            | ¥.                 | 4                | Lunard        | NAKEN.                      | GEOSINKE CONSULTANT   |
| The state of                          | Sond Bonort To   | vsis Requested | Analysis      |            |                    |                  | ē             | Project Name                | Client/Company Name   |
| ).                                    | AAC Project No.: | a, CA 93003    | y Ave, Ventur | 2225 Sperr | @aaclab.com        | Email: info      | 5-650-1642    | ng · Phone: 80              | Atmospheric Analysis and Consulting · Phone: 805-650-1642 · Email: info@aaclab.com · 2225 Sperry Ave, Ventura, CA 93003 |

AAC COC Rev 3 00-25

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Issued 02/04/2021



MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

June 16, 2025

To Whom It May Concern:

Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of May. Laboratory analysis indicates that the estimated TO Control Efficiency is calculated as 1- (348/4944) resulting in an efficiency of approximately 80.7%.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at <a href="mailto:johnpaolo.quinto@mann-hummel.com">johnpaolo.quinto@mann-hummel.com</a>.

Sincerely,

6/16/2025



John Paolo Quinto

Signed by: JohnPaolo.Quinto

|          |        |          | Ihermal   | Oxidizer      | Operant    | duzei Operation Hacking Chart |         |                                 |
|----------|--------|----------|-----------|---------------|------------|-------------------------------|---------|---------------------------------|
|          |        | Run Time | Operating | Status        | Deviations | Cause of                      | Repair  |                                 |
| Day      | Date   | (Hours)  | Temp.     | (Operational, | (if any)   | Deviation                     | Actions | Comments                        |
| TH       | 1-May  | 10       | 1,406     | Operational   | None       | N/A                           | None    |                                 |
| Н        | 2-May  | 20       | 1,407     | Operational   | None       | N/A                           | None    |                                 |
| Saturday | 3-May  |          |           |               |            |                               |         |                                 |
| Sunday   | 4-May  |          |           |               |            |                               |         |                                 |
| Σ        | 5-May  | 15       | 1,406     | Operational   | None       | N/A                           | None    |                                 |
| _        | 6-May  | 21       | 1,407     | Operational   | None       | N/A                           | None    |                                 |
| M        | 7-May  | 0        | 825       | Operational   | None       | N/A                           | None    | Nothing scheduled to run        |
| TH       | 8-May  | 0        | 810       | Operational   | None       | N/A                           | None    | Nothing scheduled to run        |
| L        | 9-May  | 0        | 908       | Operational   | None       | N/A                           | None    | Nothing scheduled to run        |
| Saturday | 10-May |          |           |               |            |                               |         | ,                               |
| Sunday   | 11-May |          |           |               |            |                               |         |                                 |
| Σ        | 12-May | 0        | 765       | Operational   | None       | N/A                           | None    | Setup. Nothing scheduled to run |
| T        | 13-May | 4        | 1,406     | Operational   | None       | N/A                           | None    | R&D Department Trial Run        |
| ×        | 14-May | 0        | 826       | Operational   | None       | N/A                           | None    | Nothing scheduled to run        |
| TH       | 15-May | 0        | 790       | Operational   | None       | N/A                           | None    | Nothing scheduled to run        |
| F        | 16-May | 20       | 1,406     | Operational   | None       | N/A                           | None    |                                 |
| Saturday | 17-May |          |           |               |            |                               |         |                                 |
| Sunday   | 18-May |          |           |               |            |                               |         |                                 |
| Σ        | 19-May | 15       | 1,406     | Operational   | None       | N/A                           | None    |                                 |
| Ļ        | 20-May | 21       | 1,407     | Operational   | None       | N/A                           | None    |                                 |
| M        | 21-May | 20       | 1,407     | Operational   | None       | N/A                           | None    |                                 |
| TH       | 22-May | 19       | 1,407     | Operational   | None       | N/A                           | None    |                                 |
| F        | 23-May | 8        | 1,408     | Operational   | None       | N/A                           | None    |                                 |
| Saturday | 24-May |          |           |               |            |                               |         |                                 |
| Sunday   | 25-May |          |           |               |            |                               |         |                                 |
| M        | 26-May | 0        | 0         | Operational   | None       | N/A                           | None    | Setup. Nothing scheduled to run |
|          | 27-May | 8        | 1,407     | Operational   | None       | N/A                           | None    |                                 |
| M        | 28-May | 20.5     | 1,406     | Operational   | None       | N/A                           | None    |                                 |
| TH       | 29-May | 20       | 1,406     | Operational   | None       | N/A                           | None    |                                 |
| Ь        | 30-May | 17       | 1,407     | Operational   | None       | N/A                           | None    |                                 |
| Saturday | 31-May |          |           |               |            |                               |         |                                 |

June 16, 2025

To:

John Paolo Quinto, Mann-Hummel FMS

From:

Matt Dunn, Geosyntec Consultants, Inc.

Subject:

Sampling Results for monthly ROC destruction efficiency of oxidizer

Variance 04R from Santa Barbara County Air Pollution Control District

On Thursday May 29, Geosyntec came to your facility and obtained process gas samples of influent and effluent streams of the thermal oxidizer (TO) to quantify the approximate control efficiency for reactive organic compounds (ROCs) leaving the ACM-VI casting process. This monitoring is part of the monthly monitoring to meet the requirements of the Variance obtained from the Santa Barbara County Air Pollution Control District (SBCAPCD).

Method: We contracted with Atmospheric Analysis and Consulting (AAC) to obtain two Summa cannisters and used the cannisters to gather a process gas sample in and out of the TO. We used the 30-minute flow controllers for sampling and conducted the process samples simultaneously between 10:15 am and 10:45 am. Stainless steel tubing was used to convey the sample from the hot effluent and conventional Teflon tubing used to the inlet process side. Beginning and ending pressures of the cannisters were recorded. It was reported to Geosyntec the ACM-VI casting process was continuous during the day and the sampling period. A graphic of the sampling is presented in Figure 1.

The summa cannisters were returned to AAC on May 30<sup>th</sup>. Method 18 was performed on the two samples and results provided to Geosyntec on normal ten-day turnaround on June 16<sup>th</sup>

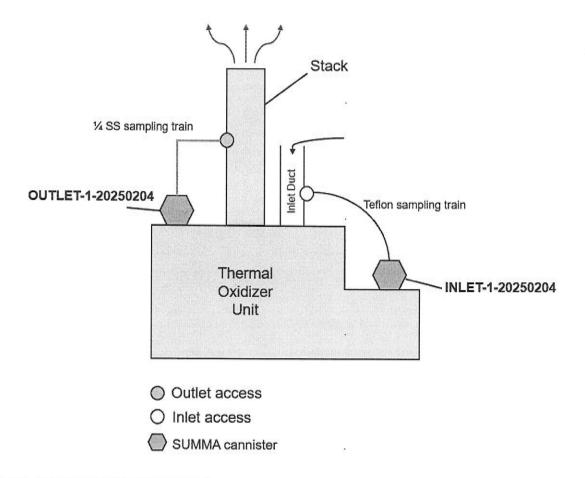


Figure 1 Sampling Configuration

Results: Attachment A to this memo provides the analytical results of the samples quantified by AAC. The results show a significant degree of destruction by the TO. Vapor concentrations of incoming non-methane, non-ethane hydrocarbons (aka reactive organic compounds or ROC) were quantified at 2,047 parts per million (ppm) as methane. The effluent concentrations of non-methane, non-ethane hydrocarbons (30-minute average) were measured at 394 ppm as methane. These one-hour average concentrations are total (wet) and are not adjusted for water content. This sampling data shows the destruction efficiency is around 80.8%. These results are not directly related to results from an official source test method prescribed by the SBCAPCD permit but provides a good indication.

### ATTACHEMENT A

Test Report



CLIENT

: Geosyntec

PROJECT NAME

: Mann + Hummel

PROJECT NUMBER : SB1250

AAC PROJECT NO.

: 251350

REPORT DATE

: 06/12/2025

On May 30, 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID        | Lab No.      | Return Pressure (mmHg) |
|------------------|--------------|------------------------|
| TO-Inlet-250529  | 251350-75961 | 710.1                  |
| TO-Outlet-250529 | 251350-75962 | 536.5                  |

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Jechnical Ofre

This report consists of 4





# LABORATORY ANALYSIS REPORT

CLIENT: Geosyntec PROJECT NO: 251350

MATRIX: Air UNITS: ppmV

SAMPLING DATE: 05/29/2025 RECEIVING DATE: 05/30/2025 ANALYSIS DATE: 06/11/2025 REPORT DATE: 06/12/2025

 $C_1$  to  $C_6$  + Hydrocarbons by EPA 18 Modified

| 251350-75961  1.3 Result Analysis Dil. 2.5 1 SRL 1 2049 1 2047 1   | Client ID                   | Inl-OT   | TO-Inlet-250529       |             | TO-Out | TO-Outlet-250529      |             |                 |
|--|-----------------------------|--|-----------------------|-------------|--------|-----------------------|-------------|-----------------|
| 1.3   Result   Analysis Dil.   Result   Fac.   Analysis Dil.   Result   Fac.   1.0   Result   Fac.   1.3   Result   Fac.   1.5   1.0   1 | AACID                       | 25135  | 0-75961               | SPI         | 25135  | 0-75962               | SRI         | Renorting Limit |
| Result         Analysis Dil.         Result         Analysis Dil.           2.5         1         0.6         13.0         1           SRL         1         0.6         46.2         1           SRL         1         0.6         36.6         1           SRL         1         0.6         37.8         1           SRL         1         0.6         17.2         1           SRL         1         0.6         7.1         1           365         1         0.6         4.1         1           2049         1         0.6         484         1           2047         1         0.6         394         1   | Canister Dil. Fac.          |  | 1.3                   | (DI - DELA) |        | 1.7                   | or a new    | January (Id)    |
| 2.5     1     0.6     13.0     1 <srl< td="">     1     0.6     46.2     1       <srl< td="">     1     0.6     36.6     1       <srl< td="">     1     0.6     37.8     1       <srl< td="">     1     0.6     17.2     1       <srl< td="">     1     0.6     7.1     1       365     1     0.6     4.1     1       2049     1     0.6     484     1       2047     1     0.6     394     1</srl<></srl<></srl<></srl<></srl<>   | Analyte                     | Result   | Analysis Dil.<br>Fac. | (KL A DF 8) | Result | Analysis Dil.<br>Fac. | (KL & DF S) | (ma)            |
| SRL         1         0.6         46.2         1           SRL         1         0.6         36.6         1           SRL         1         0.6         37.8         1           SRL         1         0.6         17.2         1           SRL         1         0.6         7.1         1           365         1         0.6         4.1         1           2049         1         0.6         484         1           2047         1         0.6         394         1  | Methane                     | 2.5  | 1                     | 9.0         | 13.0   | 1                     | 8.0         | 0.5             |
| SRL         1         0.6         36.6         1           SRL         1         0.6         37.8         1           SRL         1         0.6         17.2         1           SRL         1         0.6         7.1         1           365         1         0.6         4.1         1           2049         1         0.6         484         1           2047         1         0.6         394         1   | C <sub>2</sub> (as Ethane)  | <\$RL  | 1                     | 9.0         | 46.2   | 1 -                   | 8.0         | 0.5             |
| SRL         1         0.6         37.8         1           SRL         1         0.6         17.2         1           SRL         1         0.6         7.1         1           365         1         0.6         4.1         1           2049         1         0.6         484         1           2047         1         0.6         394         1  | C <sub>3</sub> (as Propane) | <\$RL  | 1                     | . 9.0       | 36.6   | 1 .                   | 8.0         | 0.5             |
| SRL     1     0.6     17.2     1       SRL     1     0.6     7.1     1       365     1     0.6     4.1     1       2049     1     0.6     484     1       2047     1     0.6     394     1   | C4 (as Butane)              | <srl< td=""><td>Ţ</td><td>9.0</td><td>37.8</td><td>1</td><td>8.0</td><td>. 0.5</td></srl<> | Ţ                     | 9.0         | 37.8   | 1                     | 8.0         | . 0.5           |
| SRL         1         0.6         7.1         1           365         1         0.6         4.1         1           2049         1         0.6         484         1           2047         1         0.6         484         1           2047         1         0.6         394         1   | C <sub>5</sub> (as Pentane) | <srl< td=""><td>-</td><td>9.0</td><td>17.2</td><td>-</td><td>8.0</td><td>0.5</td></srl<>   | -                     | 9.0         | 17.2   | -                     | 8.0         | 0.5             |
| 365         1         0.6         4.1         1           2049         1         0.6         497         1           2047         1         0.6         484         1           2047         1         0.6         394         1   | C <sub>6</sub> (as Hexane)  | <\$RL  | 1                     | 9.0         | 7.1    | 1                     | 0.8         | 0.5             |
| 2049         1         0.6         497         1           2047         1         0.6         484         1           2047         1         0.6         394         1   | Co+ (as Hexane)             | 365  | 1                     | 9.0         | 4.1    |                       | 8.0         | 0.5             |
| 2047         1         0.6         484         1           2047         1         0.6         394         1  | THC (as Methane)            | 2049   | 1                     | 9.0         | 497    | 1                     | 8.0         | 0.5             |
| 2047 1 0.6 394 1   | TNMHC (as Methane)          | 2047   | 1                     | 9.0         | 484    | T                     | 8.0         | 0.5             |
|  | TNMNEHC (as Methane)        | 2047   | T                     | 9.0         | 394    | Ī                     | 8.0         | 0.5             |

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

THC - Total Hydrocarbons Reported as Methane

TNMHC - Total Non-Methane Hydrocarbons Reported as Methane

TNMNEHC - Total Non-Methane Non-Ethane Hydrocarbons Reported as Methane





### Quality Control/Quality Assurance Report

Date Analyzed : 06/11/2025

Analyst

: DG/RSF

Units : ppmv Instrument ID

Calb Date

: 11/09/24

Reporting Limit: 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

| AAC ID Analyt | e      | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|---------------|--------|---------|--------|---------|--------|---------|--------|
| Spike Co      | nc     | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
| CCV Result    | (1) (M | 83.3    | 93.8   | 95,9    | 99.3   | 108.4   | 116.8  |
| % Rec         | * 110  | 86.7    | 98.0   | 99.1    | 103.1  | 106.9   | 114.7  |

II - Method Blank - EPA 18 Mod

| AAC ID Analyte   | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|------------------|---------|--------|---------|--------|---------|--------|
| MB Concentration | ND      | ND     | ND      | ND     | ND      | ND     |

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

| AAC ID        | Analyte       | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|---------------|---------------|---------|--------|---------|--------|---------|--------|
|               | Sample Conc   | 0.0     | 0.0    | . 0.0   | 0.0    | 0.0     | 0.0    |
| The West Land | Spike Conc    | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
|               | LCS Result    | 90.2    | 89.6   | 90.3    | 92.3   | 95.0    | 100.0  |
| LCS           | LCSD Result   | 90.9    | 90.2   | 91.3    | 92.8   | 93.3    | 98.7   |
|               | LCS % Rec **  | 93.9    | 93.6   | 93.3    | 95.8   | 93.7    | 98.2   |
| And the state | LCSD % Rec ** | 94.5    | 94.2   | 94.3    | 96.4   | 91.9    | 96.9   |
| St            | % RPD ***     | 0.7     | 0.6    | 1.1     | 0.6    | 19      | 1.3    |

IV -Sample & Sample Duplicate - EPA 18 Mod

| AAC ID           | Analyte    | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|------------------|------------|---------|--------|---------|--------|---------|--------|
|                  | Sample     | 3.2     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| 250961-74178     | Sample Dup | 2.9     | 0,0    | 0,0     | 0.0    | 0.0     | 0.0    |
|                  | Mean       | 3.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| The of the state | % RPD ***  | 11.1    | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |

V - Matrix Spike & Duplicate- EPA 18 Mod

| AACID                | Analyte      | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------------|--------------|---------|--------|---------|--------|---------|--------|
|                      | Sample Conc  | 1.5     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
|                      | Spike Conc   | 48.1    | 47.9   | 48.4    | 48.2   | 50.7    | 50.9   |
|                      | MS Result    | 50.6    | 48.3   | 49.8    | 49.9   | 50.6    | 55.1   |
| 250961-74178         | MSD Result   | 50,4    | 48,0   | 49.5    | 50,8   | 51.9    | . 54.6 |
| The same of the same | MS % Rec **  | 102.2   | 101.0  | 103.0   | 103.7  | 99.7    | 108.2  |
|                      | MSD % Rec ** | 101.8   | 100.4  | 102.2   | 105.4  | 102.2   | 107.2  |
| 1.7年2月14年,1972年1月    | % RPD ***    | 0.4     | 0.6    | 0.8     | 1.7    | 2,5     | 0.9    |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| AAC ID             | Analyte    | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------------------|------------|---------|--------|---------|--------|---------|--------|
|                    | Spike Conc | 96,1    | 95.7   | 96.8    | 96,3   | 101.5   | 101.9  |
| CCV                | Result     | 89.0    | 87.7   | 89.2    | 91.1   | 92.3    | 96.7   |
| * Maritin 05 11504 | % Rec *    | 92.5    | 91.7   | 92.2    | 94.6   | 91.0    | 94.9   |

<sup>\*</sup> Must be 85-115%

Page 3

<sup>\*\*</sup> Must be 75-125%

<sup>\*\*\*</sup> Must be < 25%

ND = Not Detected

<sup>&</sup>lt;RL = less than Reporting Limit

### 251350



CHAIN OF CUSTODY AND ANALYSIS REQUEST - Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

| Atmospheric Analysis and Consulting · Phone: 805-650-1642 | ng · Phone: 805  |                        | Email: info@                           | <ul> <li>Email: info@aaclab.com · 2225 Sperry Ave, Ventura, CA 93003</li> </ul> | 2225 Sperr      | y Ave, Ven | tura, CA 930                       | 03           | AAC Project No.: | 0.:                                  |
|---|------------------|------------------------|--|---|-----------------|------------|------------------------------------|--------------|------------------|--------------------------------------|
| Client/Company Name                                       | Project Name     |                        |  |   |                 | Analy      | Analysis Requested                 | , p          | Send Report 1    | O (Name/Email/Address)               |
| Matt Dunk / Geosyphee                                     | Maun +           | Humme                  | _                                      |   |                 |            |                                    |              | Matt Down        | Matt Donn -                          |
| Matt Dun  | S61250           |                        |  |   |                 |            | •                                  |              | Matthew. Pu      | Matthews. Dunne gresynke.com         |
| Turnaround Time   | Sampler Name     | e                      |  |   | 8               | ji.        |                                    |              | Send Invoice T   | Send Invoice To (Name/Email/Address) |
|   | Print: Cameron   | won Blaul              | ارد                                    |   | 1 7             |            | 8                                  | *)           | SAR              |                                      |
| ☐ Rush 72 h 🕰 Normal                                      | Signature:       | 1                      | 2                                      |   | pout            |            |                                    | ,            | PO Number        | er<br>AR ISE ONLY                    |
| Client Sample Name  | Sample ID        | Sampling<br>Date       | Sampling                               | Container<br>Type/Qty   | sМ              | Vi         |                                    | 7.           | Lab ID           | Sample Received                      |
| TO-INVET-250529   | TO-INLEY         | 5/29/25/1015/1045      | 249/218                                |   | X               | 17656      |                                    |              |                  | ☐ FedEx                              |
| TO-0072ET-258529  | TC-OVILE 5/29/25 | 5/24/25                | 1015/1045                              |   | X               | 7596       |                                    |              |                  | — □UPS<br>□Comie                     |
|   |                  | 10                     | 1                                      |   | li li           |            | 1                                  | \            | \                | □other                               |
|   |                  |                        | /                                      |   |                 |            |                                    |              | 10 YEAR          | Temperature                          |
| 4)  | \                | /                      |  |   |                 | 20         |                                    | \            |                  | ي<br>-                               |
| 100   | 52               |                        |  |   |                 | 2          | 128                                | \            |                  | I nermometer<br>ID                   |
| 2/5   |                  |                        |  |   |                 | 2/5        | 1                                  |              |                  | Initials                             |
|   | \                |                        |  |   |                 |            |                                    |              |                  | Returned Eqmt                        |
|   |                  |                        |  |   |                 | /          |                                    |              |                  | Total cans:                          |
|   |                  |                        |  |   |                 |            |                                    |              |                  | Unused cans:                         |
| \   |                  |                        |  | \   |                 |            |                                    | 19           |                  | Flow Controllers:                    |
| \   | ,                |                        |  |   | /               |            |                                    |              |                  |                                      |
| Client Notes/Special Instructions:                        | FC# FCH49        | V7583                  | \$ FCISL                               | l   | collected slaw. |            | EDD?                               | LAB USE ONLY | 1965<br>1965     |                                      |
| TO-OUTLET CONA: DOMOS,                                    |                  | 25,                    | *                                      |   |                 |            | No No                              |              | kan i            | 4 2 2                                |
| Relinquished By Print: Cancon Blaul Signature:            |                  | Date 5/29/15 Time 1/60 | Received By<br>Print: Ma<br>Signature: | Man Da  | <u>s</u> )      |            | Date   15   15   15   Time     100 |              |                  |                                      |
| Relinquished By<br>Print:                                 |                  | Date                   | Received By<br>Print:                  | pour forceston  | الحمالهما       | 1          | S/30/r                             | 6:36         |                  |                                      |
| Signature:  |                  | lime                   | Signature:                             | 大きな   | 1               |            |                                    |              |                  |                                      |

Issued 02/04/2021

AAC COC Rev 3

Page of

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MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

July 14, 2025

To Whom It May Concern:

Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of June. Laboratory analysis indicates that the estimated TO Control Efficiency is calculated as 1- (348/4944) resulting in an efficiency of approximately 94.3 %.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at <a href="mailto:johnpaolo.quinto@mann-hummel.com">johnpaolo.quinto@mann-hummel.com</a>.

Sincerely,

John Paolo Quinto

John Paolo Quinto

|     |        |             | Therma    | nal Oxidiz                             | er Opera   | tion Trad | I Oxidizer Operation Tracking Chart | art                      |
|-----|--------|-------------|-----------|--|------------|-----------|-------------------------------------|--------------------------|
|     |        | Run<br>Time | Operating | Operational<br>Status<br>(Operational, | Deviations | Cause of  | Repair                              |                          |
| Day | Date   | (Hours)     | Temp.     | Shutdown)                              | (if any)   | Deviation | Actions                             | Comments                 |
| M   | 2-Jun  | 14          | 1.406     | Operational                            | None       | N/A       | None                                |                          |
|     | 3-Jun  |             | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| *   | 4-Jun  |             | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| 王   | 2-Jun  | 0           | 826       | 826 Operational                        | None       | N/A       | None                                | Nothing Scheduled To Run |
| Ш   | unf-9  | 0           | 796       | 796 Operational                        | None       | N/A       | None                                | Nothing Scheduled To Run |
| Sat | 7-Jun  |             |           |  |            |           |                                     |                          |
| Sun | 8-Jun  |             |           |  |            |           |                                     |                          |
| Σ   | unf-6  | 15          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| T   | 10-Jun | 20          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| M   | 11-Jun | 20          | 1407      | 1407 Operational                       | None       | N/A       | None                                |                          |
| TH  | 12-Jun | 20          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| F   | 13-Jun | 41          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| Sat | 14-Jun |             |           |  |            |           |                                     |                          |
| Sun | 15-Jun |             |           |  |            |           |                                     |                          |
| M   | 16-Jun | 15          | 1407      | 1407 Operational                       | None       | N/A       | None                                |                          |
|     | 17-Jun | . 20        | 1407      | 1407 Operational                       | None       | N/A       | None                                |                          |
| M   | 18-Jun | 20          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| TH  | 19-Jun |             | 289       | 687 Operational                        | None       | N/A       | None                                | Nothing Scheduled To Run |
| F   | 20-Jun | 2           | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| Sat | 21-Jun |             |           |  |            |           |                                     |                          |
| Sun | 22-Jun |             |           |  |            |           |                                     |                          |
| M   | 23-Jun | 10          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| T   | 24-Jun | 20          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| M   | 25-Jun | 20          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| TH  | 26-Jun | 6           | 1407      | 1407 Operational                       | None       | N/A       | None                                |                          |
| F   | 27-Jun | 19.5        | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |
| Sat | 28-Jun |             |           |  |            |           |                                     |                          |
| Sun | 29-Jun |             |           |  |            |           |                                     |                          |
| M   | 30-Jun | 15          | 1406      | 1406 Operational                       | None       | N/A       | None                                |                          |

To:

John Paolo Quinto, Mann-Hummel FMS

From:

Matt Dunn, Geosyntec Consultants, Inc.

Subject:

Sampling Results for monthly ROC destruction efficiency of oxidizer

Variance 04R from Santa Barbara County Air Pollution Control District

On Tuesday, June 24<sup>th</sup>, Geosyntec came to your facility and obtained process gas samples of influent and effluent streams of the thermal oxidizer (TO) to quantify the approximate control efficiency for reactive organic compounds (ROCs) leaving the ACM-VI casting process. This monitoring is part of the monthly monitoring to meet the requirements of the Variance obtained from the Santa Barbara County Air Pollution Control District (SBCAPCD).

Method: We contracted with Atmospheric Analysis and Consulting (AAC) to obtain two Summa cannisters and used the cannisters to gather a process gas sample in and out of the TO. We used the 30-minute flow controllers for sampling and conducted the process samples simultaneously between 2:50 pm and 3:20 pm. The outlet cannister did not fill as fast as the inlet. However, adequate volumes were collected for Method 18 analysis.

Stainless steel tubing was used to convey the sample from the hot effluent and conventional Teflon tubing used to the inlet process side. Beginning and ending pressures of the cannisters were recorded. It was reported to Geosyntec the ACM-VI casting process was continuous during the day and the sampling period. A graphic of the sampling configuration is presented in Figure 1.

The summa cannisters were returned to AAC on June24<sup>th</sup>. Method 18 analysis was performed on the two samples and results were provided to Geosyntec on a normal tenday turnaround on July 7<sup>th</sup>.

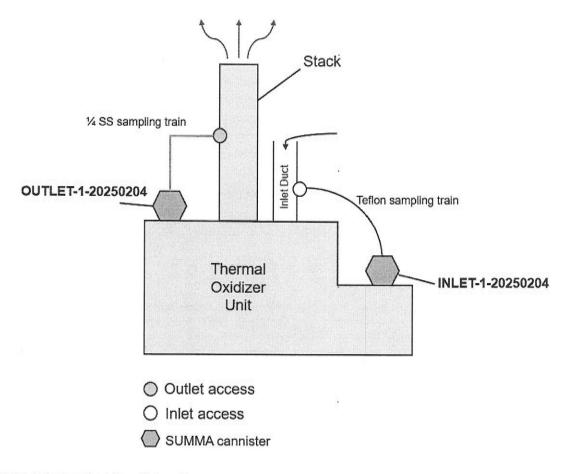


Figure 1 Sampling Configuration

Results: Attachment A to this memo provides the analytical results of the samples quantified by AAC. The results show a significant degree of destruction by the TO. Vapor concentrations of incoming non-methane, non-ethane hydrocarbons (aka reactive organic compounds or ROC) were quantified at 5,822 parts per million (ppm) as methane. The effluent concentrations of non-methane, non-ethane hydrocarbons (30-minute average) were measured at 331 ppm as methane. These one-hour average concentrations are total (wet) and are not adjusted for water content. This sampling data shows the destruction efficiency is around 94.3%. These results are not directly related to results from an official source test method prescribed by the SBCAPCD permit but provides a good indication.

### ATTACHEMENT A

Test Report



CLIENT

: Geosyntec Consultants

PROJECT NAME

: Mann+Hummel

PROJECT NUMBER

: SB1250

AAC PROJECT NO.

: 251567

REPORT DATE

: 07/07/2025

On June 25, 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID         | Lab No.      | Return Pressure (mmHg) |
|-------------------|--------------|------------------------|
| Inlet-1-20250624  | 251567-76977 | 616.5                  |
| Outlet-1-20250624 | 251567-76978 | 339.5                  |

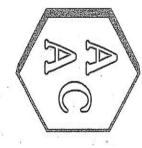
This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

0 0 0

This report consists of 4 pages.



# LABORATORY ANALYSIS REPORT

CLIENT: Geosyntec Consultants
PROJECT NO.: 251567
MATRIX: Air
UNITS: ppmV

SAMPLING DATE: 06/24/2025 RECEIVING DATE: 06/25/2025

ANALYSIS DATE: 07/03/2025 REPORT DATE: 07/07/2025

### C<sub>1</sub> to C<sub>6</sub>+Hydrocarbons by EPA 18 Modified

| Client ID                    | Inlet-1-   | Inlet-1-20250624      |             | Outlet-1- | Outlet-1-20250624     |             |                 |
|------------------------------|--|-----------------------|-------------|-----------|-----------------------|-------------|-----------------|
| AAC ID ·                     | 25156  | 251567-76977          | cpi.        | 25156     | 251567-76978          | 3           | :               |
| Canister Dil. Fac.           |  | 1.5                   | יומת - ות   | 2         | 2.7                   | JAC         | Keporting Limit |
| Analyte                      | Result   | Analysis Dil.<br>Fac. | (KL X DF S) | Result    | Analysis Dil.<br>Fac. | (KL X DF'S) | (KL)            |
| Methane                      | 11.9   | ı                     | 0.7         | 19.9      | 1                     | 1.3         | 0.5             |
| C2 (as Ethane)               | <srl< td=""><td>. 1</td><td>0.7</td><td>44.1</td><td>. 4</td><td>1.3</td><td>0.5</td></srl<> | . 1                   | 0.7         | 44.1      | . 4                   | 1.3         | 0.5             |
| C <sub>3</sub> (as Propane)  | <srl< td=""><td>1</td><td>0.7</td><td>30.7</td><td>1</td><td>1.3</td><td>0.5</td></srl<>     | 1                     | 0.7         | 30.7      | 1                     | 1.3         | 0.5             |
| C <sub>4</sub> (as Butane)   | <srl< td=""><td>1</td><td>0.7</td><td>30.3</td><td>1</td><td>1.3</td><td>0.5</td></srl<>     | 1                     | 0.7         | 30.3      | 1                     | 1.3         | 0.5             |
| C <sub>5</sub> (as Pentane)  | <srl< td=""><td>1</td><td>0.7</td><td>13.7</td><td>1</td><td>13</td><td>0.5</td></srl<>      | 1                     | 0.7         | 13.7      | 1                     | 13          | 0.5             |
| C <sub>6</sub> (as Hexane)   | <srl .<="" td=""><td>1</td><td>0.7</td><td>5.5</td><td>1</td><td>1.3</td><td>0.5</td></srl>  | 1                     | 0.7         | 5.5       | 1                     | 1.3         | 0.5             |
| C <sub>6</sub> + (as Hexane) | 989  | 1                     | 0.7         | 3.2       | jensk                 | 1.3         | 0.5             |
| THC (as Methane)             | 5834   | 1                     | 0.7         | 439       | 1                     | : 13        | 0.5             |
| TNMHC (as Methane)           | 5822   | 1                     | 0.7         | 419       | I                     | 1.3         | 0.5             |
| TNMNEHC (as Methane)         | 5822   | 1                     | 0.7         | 331       | 1                     | 1.3         | 0.5             |

THC - Total Hydrocarbons Reported as Methane

TNMHC - Total Non-Methane Hydrocarbons Reported as Methane

TNMNEHC - Total Non-Methane Non-Ethane Hydrocarbons Reported as Methane



Page 2



### Quality Control/Quality Assurance Report

Cal Verification Date: 07/03/2025

Analyst: NR Units: ppmv Instrument ID : FID#6

: FID#6

Initial Cal Date: 11/18/2024 Reporting Limit: 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

|                |         | 0.48   |         |        |         |        |
|----------------|---------|--------|---------|--------|---------|--------|
| AAC ID Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
| Spike Conc     | 96.1    | 95.7   | 96.8    | 96.3   | 96.9    | 101.9  |
| CCV Result     | 109,9   | 100.1  | 103,5   | 104.1  | 104.5   | 104.2  |
| % Rec *        | 114.3   | 104.6  | 107.0   | 108.1  | 107.8   | 102.3  |

II - Method Blank - EPA 18 Mod

| Analyte State Analyte Analyte State Analyte State Analyte An | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--|---------|--------|---------|--------|---------|--------|
| MB Concentration   | ND      | ND     | ND      | . ND   | ND      | . ND   |

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

| AAC ID                                       | Analyte       | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--|---------------|---------|--------|---------|--------|---------|--------|
|  | Sample Conc   | 0.0     | 0,0    | 0.0     | 0.0    | 0.0     | 0,0    |
|  | Spike Conc    | 96.1    | 95.7   | 96.8    | 96,3   | 96.9    | 101.9  |
| Lab Control LCS Result Standards LCSD Result | LCS Result    | 95.9    | 93.3   | 95.4    | 96.8   | 96.8    | 96.8   |
|  | LCSD Result   | 103,8   | 101.4  | 104.8   | 106.0  | 105.8   | 106.4  |
|  | LCS % Rec **  | 99.7    | 97.5   | 98.6    | 100.5  | 99.9    | 95.0   |
|  | LCSD % Rec ** | 108,0   | 105.9  | 108.3   | 110.0  | 109.2   | 104.4  |
|  | % RPD ***     | 8.0     | 8.3    | · 9.4   | 9.1    | 8.9 ·   | 9.4    |

IV -Sample & Sample Duplicate - EPA 18 Mod

| AAC ID Analyte          | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|-------------------------|---------|--------|---------|--------|---------|--------|
| Sample                  | 3.3     | 0.0    | 0,0     | 0.0    | 0.0     | 0,0    |
| 250961-74176 Sample Dup | 3.3     | 0.0    | 0.0     | 0,0    | 0.0     | 0.0    |
| Меап                    | 3.3     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| % RPD ***               | 1,6     | 0.0    | 0,0     | 0.0    | 0.0     | 0.0    |

V - Matrix Spike & Duplicate- EPA 18 Mod

| BESSEAAC ID SEES BESSAnalytesses | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------------------------|---------|--------|---------|--------|---------|--------|
| Sample Conc                      | 1.6     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| Spike Conc                       | 48.1    | 47,9   | 48,4    | 48.2   | 48.4    | 50.9   |
| MS Result                        | 52.1    | 48.6   | 50.8    | 50.9   | . 52.5  | 52.8   |
| 250961-74176 MSD Result          | 53,5    | 51.1   | 52.1    | 52.9   | 53.7    | 54.7   |
| MS % Rec **                      | 104.9   | 101.5  | 104.9   | 105.7  | 108.3   | 103.6  |
| MSD % Rec **                     | 107.8   | 106.7  | 107.7   | 109.8  | 110.9   | 107.5  |
| % RPD ***                        | 2.7     | 5.0    | 2.7     | 3.8    | 2.3     | 3.7    |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| BESSEAAGIDESSES SESSAnalytesses | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|---------------------------------|---------|--------|---------|--------|---------|--------|
| Spike Conc                      | . 96.1  | 95,7   | 96.8    | 96.3   | 96.9    | 101.9  |
| CCV Result                      | 100,3 . | 97.6   | 100.6   | 101.9  | 101.9   | 102.3  |
| % Rec *                         | 104.4   | 102.0  | 103.9   | 105.8  | 105.2   | 100.4  |

<sup>\*</sup> Must be 85-115%

Page 3

<sup>\*\*</sup> Must be 75-125%

<sup>\*\*\*</sup> Must be < 25%

ND = Not Detected

<sup>&</sup>lt;RL = less than Reporting Limit



ATMOSPHERIC ANALYSIS & CONSULTING, INC. 2225 Sperry Avenue
Ventura, California 93003
Phone (805) 650-1642
E-mail: info@aaclab.com

AAC Project No.

CHAIN OF CUSTODY/ ANALYSIS REQUEST FORM

|                               |            |                          |       |                           |                              |                     |                 | -               |                                    |
|-------------------------------|------------|--------------------------|-------|---------------------------|------------------------------|---------------------|-----------------|-----------------|------------------------------------|
| Print Name                    | 5.04       | Received by (signature): |       | Date/Time                 |                              | Print Name:         |                 | (Signaturė):    | Relinquished by (Signaturė):       |
| Print Name                    | ignature): | Received by (signature): | E     | Date/TimeS &              | Michaeld                     | Print Name:         | (M)             | (Signature):    | Leah Michael (2n)                  |
|                               |            |                          |       |                           |                              |                     |                 |                 |                                    |
| i.                            |            |                          |       |                           |                              |                     |                 |                 |                                    |
|                               |            |                          |       |                           |                              |                     |                 |                 |                                    |
|                               |            |                          |       |                           |                              |                     |                 |                 |                                    |
| Special Instructions/remarks: |            |                          |       |                           |                              |                     | 4               |                 |                                    |
| Specify)                      | 3          |                          |       |                           |                              |                     |                 |                 |                                    |
| 5 Day Normal                  |            |                          |       |                           |                              |                     |                 |                 |                                    |
| Turnaround Time 24-Hr 48-Hr   |            |                          |       |                           |                              |                     |                 |                 |                                    |
| P.O. #                        |            |                          |       |                           | 5                            |                     |                 | ,               |                                    |
| Attn:                         |            |                          |       |                           |                              | 1.0                 |                 |                 |                                    |
| ,                             |            |                          | ×     |                           | OUTLET -1-2025 0624          | 0                   | 1450-           | Palhala         | 86636                              |
| Send invoice to:              |            |                          | X     |                           | INLET-1-20250624             | I                   | 1520            | 6/24/25 1450-   | 76977                              |
| Phone#:                       |            |                          | EPA   | Type/No. of<br>Containers | Client Sample ID/Description | Sample<br>Type      | Time<br>Sampled | Date<br>Sampled |                                    |
|                               |            |                          | Me    |                           |                              | N. Y.               | 20              | Michae bell     | Lean M                             |
| Attn:                         |            |                          | th    |                           | ature                        | Sampler's Signature | ٩               | (Print Name     | Sampler's Name (Print Name)        |
| byoghnher com                 |            |                          | 81 bo |                           | 0                            | Project Number      |                 | Print Name)     | Project Mgr (Print Name)           |
| Martham Dunn a                | quested    | Analysis Requested       |       |                           | * Humpul                     | Project Name        | SIMENI          | Wand) ~         | Client Name (AROSHATEL LONSWITHITS |

260 -22 t 5M2 5,36.56



MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

August 15, 2025

To Whom It May Concern:

Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of July. Lower inlet readings were observed due to samples being collected while the machine was offline during that time. A resample has been scheduled to ensure accurate data for the month of July.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at johnpaolo.quinto@mann-hummel.com.

Sincerely,

John Paolo Quinto

John Paolo Quinto



CLIENT

: Geosyntec

PROJECT NAME

: Mann + Hummel

PROJECT NUMBER

: SB1250

AAC PROJECT NO.

: 251845

REPORT DATE

: 07/29/2025

On July 23, 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID        | Lab No.      | Return Pressure (mmHg) |
|------------------|--------------|------------------------|
| TO-INLET-250722  | 251845-78208 | - 612.5                |
| TO-OUTLET-250722 | 251845-78209 | 621.0                  |

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Technical Director

This report consists of 4 pages.





### LABORATORY ANALYSIS REPORT

CLIENT: Geosyntec
PROJECT NO.: 251845
MATRIX: Air
UNITS: ppmV

SAMPLING DATE: 07/22/2025 RECEIVING DATE: 07/23/2025 ANALYSIS DATE: 07/28/2025 REPORT DATE: 07/29/2025

C1-to C6+ Hydrocarbons by EPA 18 Modified

| Client ID                   | TO-INE | TO-INLET-250722       |             | TO-OUT | TO-OUTLET-250722      |             |                 |
|-----------------------------|--------|-----------------------|-------------|--------|-----------------------|-------------|-----------------|
| AACID                       | 2518   | 251845-78208          | CDI         | 25184  | 251845-78209          | cor         |                 |
| Canister Dil. Fac.          |        | 1.5                   | Conduct Top |        | 1.4                   | ON DEE      | Keporting Limit |
| Analyte                     | Result | Analysis Dil.<br>Fac. | (ALADES)    | Result | Analysis Dil.<br>Fac. | (KL x DF's) | (KL)            |
| Methane                     | 2.2    | 1                     | 1.0         | 9'9    | 1                     | 0.7         | 0.5             |
| C <sub>2</sub> (as Ethane)  | SRL    | 1                     | 0.7         | 12.7   | -                     | 0.7         | 0.5             |
| C <sub>3</sub> (as Propane) | SRL    |                       | 0.7         | 10.8   | 1                     | 0.7         | .50             |
| C4 (as Butane)              | SRL    | 1                     | 0.7         | 8.9    | 1                     | 0.7         | 0.5             |
| C <sub>5</sub> (as Pentane) | SRL    | 1                     | 0.7         | 3.6    | 1                     | 0.7         | 0.5             |
| C <sub>6</sub> (as Hexane)  | SRL    | - 1                   | 0.7         | SRL    | 1                     | 0.7         | 0.5             |
| Co+ (as Hexane)             | · SRL  | 1                     | . 0.7       | SRL    | 1                     | 0.7         | 0.5             |
| THC (as Methane)            | 2.2 )  | 1                     | 0.7         | 114    | -                     | 0.7         | 0.5             |
| TNMHC (as Methane)          | SRL    | -                     | 0.7         | . 107  | 1                     | 0.7         | 0.5             |
| TNMNRHC (se Methons)        | Ida    |                       | 200         | . 40   |                       |             |                 |

TNMHC - Total Non-Methane Hydrocarbons Reported as Methane THC - Total Hydrocarbons Reported as Methane

TNMINEHC - Total Non-Methane Non-Ethane Hydrocarbons Reported as Methane

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### Quality Control/Quality Assurance Report

Cal Verification Date: 07/28/2025

Analyst : DG/RSF

Units: ppmv

Instrument ID: FID #3

Initial Cal Date: 11/09/24 Reporting Limit: 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

| AACID | Analyte    | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|-------|------------|---------|--------|---------|--------|---------|--------|
|       | Spike Conc | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
| CCV   | Result     | 91.7    | 89.2   | 91.8    | 91.1   | 90.9    | 94.0   |
|       | % Rec *    | 95.4    | 93.2   | 94.9    | 94.6   | 89.6    | 92.3   |

II - Method Blank - EPA 18 Mod

| AAC ID Analyte   | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|------------------|---------|--------|---------|--------|---------|--------|
| MB Concentration | ND      | ND:    | ND      | ND     | ND      | · ND   |

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

| AAC ID               | Analyte      | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------------|--------------|---------|--------|---------|--------|---------|--------|
| 2011 PH 2011 PH 2011 | Sample Conc  | 0.0     | 0.0    | 0.0     | . 0.0  | 0.0     | 0.0    |
|                      | Spike Conc   | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
| 2090E1               | LCS Result   | 92.1    | 91.0   | 92.6    | 93.5   | 92.6    | 94.0   |
| LCS                  | LCSD Result  | 93.2    | 90.5   | 91.0    | 91.9   | 91.5    | 93.4   |
|                      | LCS % Rec *  | 95.8    | 95.1   | 95.7    | 97.1   | 91.3    | 92.3   |
| anti di Kalenda      | LCSD % Rec * | 96.9    | 94.6   | 94.1    | 95.4   | 90.2    | 91.7   |
|                      | % RPD ***    | 1.1     | 0.5    | 1.7     | 1.7    | 1.2     | 0.7    |

IV -Sample & Sample Duplicate - EPA 18 Mod

| AAC ID       | Analyte    | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------------|------------|---------|--------|---------|--------|---------|--------|
|              | Sample     | 3.4     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| 250961-74179 | Sample Dup | 3.2     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| 430901-74179 | Mean       | 3.3     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0 .  |
|              | % RPD ***  | 3.9     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |

V - Matrix Spike & Duplicate- EPA 18 Mod

| AAC ID                                 | Analyte      | Methane | Ethane | Propane | Butane  | Pentane | Hexane |
|--|--------------|---------|--------|---------|---------|---------|--------|
|  | Sample Conc  | 1.6     | 0,0    | 0.0     | 0:0     | 0.0     | 0.0    |
|  | Spike Conc   | 48.1    | 47.9   | 48.4    | 48.2    | 50.7    | 50.9   |
|  | MS Result    | 50.2    | 47.9   | 49.2    | 49.7    | 49.6    | 52.1   |
| 250961-74179                           | MSD Result   | 53.1    | 50.8   | 51.7    | 52.9    | 52.4    | 56.4   |
| 100 (100 (100 (100 (100 (100 (100 (100 | MS % Rec **  | 101.0   | 100.1  | 101.6   | 103.3   | 97.7    | 102.3  |
| of the second of the second            | MSD % Rec ** | 107.1   | 106.2  | 106.9   | . 109.9 | 103.2   | 110.8  |
|  | % RPD ***    | 5.9     | 5.9    | 5.1     | 6.2     | 5.5     | 7.9    |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| AAC ID                   | Analyte    | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------------------------|------------|---------|--------|---------|--------|---------|--------|
| Contract - 1 - 1 - 1     | Spike Conc | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
| CCV                      | Result     | 92.2    | 91.0   | 93.0    | 95.2   | 95.8    | 100.9  |
| The second second second | % Rec *    | 95.9    | 95.1   | 96.1    | 98.9   | .94.4   | 99.1   |

<sup>\*</sup> Must be 85-115%

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<sup>\*\*</sup> Must be 75-125%

<sup>\*\*\*</sup> Must be < 25%

ND = Not Detected

<sup>&</sup>lt;RL = less than Reporting Limit



ATMOSPHERIC ANALYSIS & CONSULTING, INC.

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AAC Project No.

21812

# CHAIN OF CUSTODY/ ANALYSIS REQUEST FORM

| Client Name                  |                 |                 | Project Name              |                              |                           | Annah |                          |      | Send report:                  |
|------------------------------|-----------------|-----------------|---------------------------|------------------------------|---------------------------|-------|--------------------------|------|-------------------------------|
| I WAT VIOLIN                 |                 |                 | Mann +                    | Trimit +                     |                           | Allai | Allulysis requested      | iled |                               |
| Project Mgr (Print Name)     | Name)           |                 | Project Number<br>SB12-S0 | ober 6                       |                           |       |                          |      |                               |
| Sampler's Name (Print Name)  | me (Print Name  | (6              | Sampler's Signature       | gnature BCL                  |                           | 3/ 60 |                          | (2)  | Attn: Math Dunn               |
| AAC<br>Sample No.            | Date<br>Sampled | Time<br>Sampled | Sample<br>Type            | Client Sample ID/Description | Type/No. of<br>Containers | νH∍Λ  |                          |      | Phone#: 8054520905            |
| 1470                         | 7/22/ts         | 1650-           | P                         | TO-INET-250722               |                           | ×     |                          |      | Send invoice to:              |
| 17-71                        | 7/2425 (1720    | 02L1<br>-059    | 9                         | TO-007ET-25072209            | ×                         | ~     |                          |      |                               |
|                              |                 |                 |                           |                              |                           |       |                          |      | Atm: Matt Dunn                |
|                              |                 |                 |                           |                              |                           |       |                          |      | P.O.#                         |
|                              |                 |                 | ı                         |                              |                           | ,     |                          |      | Turnaround Time               |
|                              |                 |                 |                           |                              |                           |       |                          |      |                               |
|                              |                 |                 |                           |                              |                           |       |                          |      | pecify                        |
|                              |                 |                 |                           |                              |                           |       |                          |      | Special Instructions/remarks: |
|                              |                 |                 |                           |                              |                           |       |                          |      | Sample No. cell.              |
|                              |                 |                 |                           |                              |                           |       |                          |      |                               |
|                              |                 |                 |                           |                              |                           |       |                          |      |                               |
|                              |                 |                 | 15                        |                              |                           |       |                          |      |                               |
| Relinquished by (Signature): | Signature):     | 1               | Print Name:               | n Blaul                      | Date/Time   745           | -     | Received by (signature): | re): | Print Name                    |
| Relinquished by (Signature): | Signature):     |                 | Print Name: 1             | of Duna                      | Dote/Time                 | -     | Received by (signature): |      | 7/23/2 Print Name             |
|                              |                 |                 |                           |                              | -                         |       | \<br>\                   |      | 9111                          |

000- 20 const da 25.5 (26)

| Charactering   Cheration   Status   Status   Chours   Temp.   Shutdown   1-Jul   21   1,406   Operationa   3-Jul   5   1,406   Operationa   5-Jul   5   1,406   Operationa   5-Jul   Chours      |       |        |                     |                    | Thermal (   | al Oxidizer Operation Tracking Chart | eration               | Tracking          | ) Chart  |
|--|-------|--------|---------------------|--------------------|---|--------------------------------------|-----------------------|-------------------|--|
| 1-Jul         21         1,406         Operational           2-Jul         5         1,406         Operational           3-Jul         6-Jul         Operational           6-Jul         Operational           7-Jul         Operational           8-Jul         Operational           10-Jul         Operational           11-Jul         20         1406         Operational           15-Jul         21         1406         Operational           15-Jul         21         1406         Operational           15-Jul         21         1406         Operational           15-Jul         5         1406         Operational           20-Jul         5         1406         Operational           22-Jul         5         1406         Operational           22-Jul         22         1406         Operational           25-Jul         22         1406         Operational           26-Jul         12         1406         Operational           25-Jul         12         1406         Operational           25-Jul         12         1406         Operational           26-Jul         10         1406 <th>Day</th> <th>Date</th> <th>Run Time<br/>(Hours)</th> <th>Operating<br/>Temp.</th> <th>Operational<br/>Status<br/>(Operational,<br/>Shutdown)</th> <th>Deviations<br/>(if any)</th> <th>Cause of<br/>Deviation</th> <th>Repair<br/>Actions</th> <th>Comments</th>   | Day   | Date   | Run Time<br>(Hours) | Operating<br>Temp. | Operational<br>Status<br>(Operational,<br>Shutdown) | Deviations<br>(if any)               | Cause of<br>Deviation | Repair<br>Actions | Comments   |
| 2-Jul         5         1,406         Operational           3-Jul         Operational         4-Jul           6-Jul         Operational         5-Jul           6-Jul         Operational         7-Jul           8-Jul         Operational         11-Jul           10-Jul         Operational         12-Jul           11-Jul         20         1406         Operational           15-Jul         21         1406         Operational           15-Jul         21         1406         Operational           15-Jul         5         1406         Operational           15-Jul         5         1406         Operational           20-Jul         5         1406         Operational           22-Jul         22         1406         Operational           25-Jul         22         1406         Operational           25-Jul         684         Operational           25-Jul         16         Operational           25-Jul         16         Operational           25-Jul         10         Operational           25-Jul         10         Operational           25-Jul         10         Operational </td <td>Lnes</td> <td>1-Jul</td> <td>21</td> <td>1,406</td> <td>Operational</td> <td>None</td> <td>N/A</td> <td>None</td> <td></td>  | Lnes  | 1-Jul  | 21                  | 1,406              | Operational   | None                                 | N/A                   | None              |  |
| 3-Jul       Operational         4-Jul       Operational         5-Jul       Operational         6-Jul       Operational         7-Jul       Operational         10-Jul       Operational         11-Jul       Operational         15-Jul       20         14-Jul       21         14-Jul       21         15-Jul       21         16-Jul       22         16-Jul       22         1406       Operational         22-Jul       684         25-Jul       684         26-Jul       22         27-Jul       684         28-Jul       1406         29-Jul       1406         29-Jul       1406         29-Jul       1406  | Wed   | 2-Jul  | 5                   | 1,406              | Operational   | None                                 | N/A                   | None              |  |
| 4-Jul       Operational         6-Jul       C-Jul         6-Jul       Operational         7-Jul       Operational         10-Jul       Operational         12-Jul       Operational         12-Jul       Operational         15-Jul       1406         16-Jul       1406         18-Jul       1406         20-Jul       1406         21-Jul       1406         22-Jul       1406         23-Jul       1406         25-Jul       13         26-Jul       12         28-Jul       1406         28-Jul       1406         29-Jul       1406         29-Jul       1406         29-Jul       1406         29-Jul       1406 </td <td>Thurs</td> <td>3-Jul</td> <td></td> <td></td> <td>Operational</td> <td>None</td> <td>N/A</td> <td>None</td> <td>Nothing Scheduled To Run; No Chemicals available</td>  | Thurs | 3-Jul  |                     |                    | Operational   | None                                 | N/A                   | None              | Nothing Scheduled To Run; No Chemicals available |
| 6-Jul   Coperational   S-Jul   Coperational   S-Jul   Coperational   Operational   10-Jul   Coperational   12-Jul   Coperational   15-Jul   Coperational   Coperat | Fri   | lnC-4  |                     |                    | Operational   | None                                 | N/A                   | None              | Nothing Scheduled To Run: No Chemicals available |
| 6-Jul   Operational   8-Jul   Operational   9-Jul   Operational   11-Jul   Operational   12-Jul   20   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   22-Jul   22   1406   Operational   22-Jul   22   1406   Operational   22-Jul   22   1406   Operational   25-Jul   13   1406   Operational   25-Jul   13   1406   Operational   26-Jul   12   1406   Operational   26-Jul   12   1406   Operational   25-Jul   13   1406   Operational   26-Jul   13   1407   Operational   30-Jul   13   1407   Operational   31-Jul   19   1406   Operational   31-Jul   31-J | Sat   | 9-Jul  |                     |                    |   |                                      |                       |                   |  |
| 7-Jul   Operational   8-Jul   Operational   9-Jul   Operational   11-Jul   11-Jul   Operational   12-Jul   20   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   22-Jul   22   1406   Operational   22-Jul   22   1406   Operational   22-Jul   22   1406   Operational   25-Jul   13   1406   Operational   25-Jul   12   1406   Operational   25-Jul   12   1406   Operational   25-Jul   12   1406   Operational   25-Jul   13   1406   Operational   26-Jul   10   1406   Operational   30-Jul   13   1407   Operational   31-Jul   19   1406   Operational   31-Jul   31- | Sun   | lnc-9  |                     |                    |   |                                      |                       |                   |  |
| 8-Jul Operational 9-Jul 11-Jul Operational 12-Jul 12-Jul 20 1406 Operational 15-Jul 21 1406 Operational 15-Jul 21 1406 Operational 15-Jul 21 1406 Operational 18-Jul 5 1406 Operational 22-Jul 22 1406 Operational 22-Jul 22 1406 Operational 22-Jul 22 1406 Operational 23-Jul 22 1406 Operational 25-Jul 13 1406 Operational 26-Jul 12 1406 Operational 26-Jul 12 1406 Operational 26-Jul 12 1406 Operational 26-Jul 12 1406 Operational 26-Jul 13 1406 Operational 26-Jul 19 1406 Operational 30-Jul 19 1406 Operational 31-Jul 1 | Mon   | lul-7  |                     |                    | Operational   | None                                 | N/A                   | None              | Nothing Scheduled To Run: No Chemicals available |
| 9-Jul   Operational   10-Jul   I1-Jul   Operational   12-Jul   I2-Jul   20   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   22-Jul   22   1406   Operational   22-Jul   22   1406   Operational   22-Jul   22   1406   Operational   25-Jul   13   1406   Operational   25-Jul   12   1406   Operational   25-Jul   12   1406   Operational   25-Jul   12   1406   Operational   25-Jul   12   1406   Operational   25-Jul   13   1406   Operational   30-Jul   13   1407   Operational   31-Jul   19   1406   Operational   31-Jul   31- | Lines | lnf-8  | -55%                |                    | Operational   | None                                 | N/A                   | None              | Nothing Scheduled To Run: No Chemicals available |
| 10-Jul   Operational   11-Jul   11-Jul   Operational   12-Jul   20   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   15-Jul   21   1406   Operational   22-Jul   22   1406   Operational   22-Jul   22   1406   Operational   22-Jul   22   1406   Operational   25-Jul   13   1406   Operational   25-Jul   12   1406   Operational   25-Jul   12   1406   Operational   25-Jul   12   1406   Operational   25-Jul   12   1406   Operational   25-Jul   13   1406   Operational   30-Jul   13   1407   Operational   31-Jul   19   1406   Operational   31-Jul   31-J   | Wed   | lnC-6  |                     |                    | Operational   | None                                 | N/A                   | None              | Nothing Scheduled To Run: No Chemicals available |
| 11-Jul       12-Jul       13-Jul       13-Jul       14-Jul       15-Jul       15-Jul       15-Jul       17-Jul       11       1406       Operational       18-Jul       18-Jul       19-Jul       20-Jul       21-Jul       21-Jul       21-Jul       22-Jul       22-Jul       22-Jul       23-Jul       22-Jul       24-Jul       25-Jul       25-Jul       26-Jul       27-Jul       27-Jul       28-Jul       28-Jul       28-Jul       28-Jul       1406       Operational       28-Jul       1406       Operational       29-Jul       10     1406       Operational       30-Jul       1406   | Thurs | 10-Jul |                     |                    | Operational   | None                                 | N/A                   | None              | Nothing Scheduled To Run: No Chemicals available |
| 12-Jul       13-Jul     20     1406     Operational       14-Jul     21     1406     Operational       15-Jul     21     1406     Operational       17-Jul     11     1406     Operational       19-Jul     5     1406     Operational       20-Jul     22     1406     Operational       22-Jul     22     1406     Operational       23-Jul     22     1406     Operational       25-Jul     13     1406     Operational       26-Jul     12     1406     Operational       27-Jul     12     1406     Operational       27-Jul     12     1406     Operational       28-Jul     10     1406     Operational       29-Jul     13     1407     Operational       30-Jul     13     1407     Operational       31-Jul     13     1406     Operational  | Fri   | 11-Jul |                     |                    | Operational   | None                                 | N/A                   | None              | Nothing Scheduled To Run: No Chemicals available |
| 13-Jul     20     1406     Operational       14-Jul     21     1406     Operational       16-Jul     21     1406     Operational       17-Jul     11     1406     Operational       19-Jul     5     1406     Operational       20-Jul     22     1406     Operational       22-Jul     22     1406     Operational       23-Jul     22     1406     Operational       25-Jul     13     1406     Operational       26-Jul     12     1406     Operational       27-Jul     12     1406     Operational       25-Jul     12     1406     Operational       28-Jul     10     1406     Operational       29-Jul     13     1407     Operational       30-Jul     13     1407     Operational       31-Jul     13     1406     Operational   | Sat   | 12-Jul |                     |                    |   |                                      |                       |                   |  |
| 14-Jul         20         1406         Operational           15-Jul         21         1406         Operational           16-Jul         11         1406         Operational           18-Jul         5         1406         Operational           20-Jul         21.5         1406         Operational           21-Jul         22         1406         Operational           22-Jul         22         1406         Operational           23-Jul         13         1406         Operational           25-Jul         13         1406         Operational           25-Jul         12         1406         Operational           25-Jul         12         1406         Operational           25-Jul         12         1406         Operational           25-Jul         12         1406         Operational           27-Jul         12         1406         Operational           27-Jul         12         1406         Operational           29-Jul         10         1406         Operational           30-Jul         13         1407         Operational  | Sun   | 13-Jul |                     |                    |   |                                      |                       |                   |  |
| 15-Jul         21         1406         Operational           16-Jul         21         1407         Operational           17-Jul         11         1406         Operational           19-Jul         21.5         1406         Operational           20-Jul         22         1406         Operational           22-Jul         22         1406         Operational           23-Jul         22         1406         Operational           25-Jul         13         1406         Operational           25-Jul         12         1406         Operational           25-Jul         12         1406         Operational           25-Jul         12         1406         Operational           25-Jul         17         Operational           26-Jul         10         1406         Operational           29-Jul         13         1407         Operational           30-Jul         13         1407         Operational           31-Jul         19         1406         Operational   | Mon   | 14-Jul | 20                  | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 16-Jul         21         1407         Operational           17-Jul         11         1406         Operational           19-Jul         21.5         1406         Operational           20-Jul         22         1406         Operational           22-Jul         22         1406         Operational           23-Jul         22         1406         Operational           24-Jul         13         1406         Operational           25-Jul         684         Operational           25-Jul         12         1406         Operational           27-Jul         12         1406         Operational           28-Jul         10         1406         Operational           29-Jul         13         1407         Operational           30-Jul         13         1407         Operational           31-Jul         19         1406         Operational  | Lines | 15-Jul |                     | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 17-Jul         11         1406         Operational           18-Jul         5         1406         Operational           20-Jul         21.5         1406         Operational           22-Jul         22         1406         Operational           23-Jul         22         1406         Operational           24-Jul         13         1406         Operational           25-Jul         684         Operational           25-Jul         684         Operational           27-Jul         1406         Operational           27-Jul         1406         Operational           28-Jul         10         1406         Operational           39-Jul         13         1407         Operational           30-Jul         13         1407         Operational  | Wed   | 16-Jul |                     | 1407               | Operational   | None                                 | N/A                   | None              |  |
| 18-Jul         5         1406         Operational           20-Jul         21.5         1406         Operational           22-Jul         22         1406         Operational           23-Jul         22         1406         Operational           24-Jul         13         1406         Operational           25-Jul         684         Operational           26-Jul         684         Operational           27-Jul         12         1406         Operational           28-Jul         10         1406         Operational           30-Jul         13         1407         Operational           31-Jul         19         1406         Operational  | Thurs | 17-Jul | 11                  | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 19-Jul       20-Jul     21.5     1406     Operational       22-Jul     22     1406     Operational       23-Jul     22     1406     Operational       24-Jul     13     1406     Operational       25-Jul     684     Operational       26-Jul     684     Operational       27-Jul     12     1406     Operational       29-Jul     10     1406     Operational       30-Jul     13     1407     Operational       31-Jul     19     1406     Operational   | Fri   | 18-Jul | 5                   | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 20-Jul     21.5     1406     Operational       22-Jul     22     1406     Operational       23-Jul     22     1406     Operational       24-Jul     13     1406     Operational       25-Jul     684     Operational       26-Jul     684     Operational       27-Jul     12     1406     Operational       28-Jul     10     1406     Operational       30-Jul     13     1407     Operational       31-Jul     19     1406     Operational  | Sat   | 19-Jul |                     |                    |   |                                      |                       |                   |  |
| 21-Jul     21,5     1406     Operational       22-Jul     22     1406     Operational       23-Jul     13     1406     Operational       24-Jul     13     1406     Operational       25-Jul     684     Operational       27-Jul     12     1406     Operational       28-Jul     10     1406     Operational       29-Jul     13     1407     Operational       30-Jul     13     1406     Operational   | Sun   | 20-Jul |                     |                    |   |                                      |                       |                   |  |
| 22-Jul     22     1406     Operational       23-Jul     22     1406     Operational       24-Jul     13     1406     Operational       25-Jul     684     Operational       27-Jul     12     1406     Operational       28-Jul     10     1406     Operational       30-Jul     13     1407     Operational       31-Jul     19     1406     Operational  | Mon   | 21-Jul | 21.5                | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 23-Jul         22         1406         Operational           24-Jul         13         1406         Operational           25-Jul         684         Operational           27-Jul         12         1406         Operational           28-Jul         10         1406         Operational           30-Jul         13         1407         Operational           31-Jul         19         1406         Operational   | Tues  | 22-Jul | 22                  | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 24-Jul     13     1406     Operational       25-Jul     684     Operational       26-Jul     27-Jul     12     1406     Operational       28-Jul     10     1406     Operational       30-Jul     13     1407     Operational       31-Jul     19     1406     Operational   | Wed   | 23-Jul | 22                  | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 26-Jul 684 Operational 26-Jul 12 1406 Operational 28-Jul 10 1406 Operational 30-Jul 13 1407 Operational 31-Jul 19 1406 Operational   | Thurs | 24-Jul | 13                  | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 26-Jul 12 1406 Operational 29-Jul 10 1407 Operational 30-Jul 13 1407 Operational 31-Jul 19 1406 Operational  | Fri   | 25-Jul |                     | 684                | Operational   | None                                 | N/A                   | None              | Nothing Scheduled To Run: No Chemicals available |
| 28-Jul 12 1406 Operational 29-Jul 10 1407 Operational 30-Jul 13 1407 Operational 31-Jul 19 1406 Operational  | Sat   | 26-Jul |                     |                    |   |                                      |                       |                   |  |
| 28-Jul 12 1406 Operational 29-Jul 10 1406 Operational 30-Jul 13 1407 Operational 31-Jul 19 1406 Operational  | Sun   | 27-Jul |                     |                    |   |                                      |                       |                   |  |
| 29-Jul 10 1406 Operational 30-Jul 13 1407 Operational 31-Jul 19 1406 Operational   | Mon   | 28-Jul |                     | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 30-Jul 13 1407 Operational 31-Jul 19 1406 Operational  | Lues  | 29-Jul | 10                  | 1406               | Operational   | None                                 | N/A                   | None              |  |
| 31-Jul 19 1406 Operational   | Wed   | 30-Jul | 13                  | 1407               | Operational   | None                                 | N/A                   | None              |  |
|  | Thurs | 31-Jul | 19                  | 1406               | Operational   | None                                 | N/A                   | None              |  |



MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

September 17, 2025

To Whom It May Concern:

Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of August. Laboratory analysis indicates that the estimated TO Control Efficiency is calculated as 1 - (348/4944) resulting in an efficiency of approximately 90%.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at johnpaolo.quinto@mann-hummel.com.

Sincerely,

John Paolo Quinto

ohn Paolo Quinto

|        |        |                     |                    | Inermal (  | Oxidizei               | Operall            | Heilliai Oxidizei Operatioli Hackilig Oliait | Johnan   |
|--------|--------|---------------------|--------------------|--|------------------------|--------------------|--|--|
| Dav    | Date   | Run Time<br>(Hours) | Operating<br>Temp. | Operational Status<br>(Operational,<br>Shutdown) | Deviations<br>(if anv) | Cause of Deviation | Repair Actions                               | Comments   |
| Friday | 1-Aug  |                     | 1406               | Onerational                                      | None                   | A/A                | None   |  |
| Sat    | 2-Aug  |                     |                    |  |                        |                    |  |  |
| Sun    | 3-Aug  |                     |                    |  |                        |                    |  |  |
| Mon    | 4-Aug  | 0                   | 865                | Operational                                      | None                   | N/A                | None   | Nothing Scheduled To Run; No Chemicals available |
| Lues   | 5-Aug  | 4                   | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Wed    | 6-Aug  | 19                  | 1405               | Operational                                      | None                   | N/A                | None   |  |
| Thurs  | 7-Aug  |                     | 1405               | Operational                                      | None                   | N/A                | None   |  |
| Friday | 8-Aug  | 12                  | 1405               | Operational                                      | None                   | N/A                | None   |  |
| Sat    | 9-Aug  |                     |                    |  |                        |                    |  |  |
| Sun    | 10-Aug |                     |                    |  |                        |                    |  |  |
| Mon    | 11-Aug | 10                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Lues   | 12-Aug | 13                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Wed    | 13-Aug |                     | 1407               | Operational                                      | None                   | N/A                | None   |  |
| Thurs  | 14-Aug | 21                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Friday | 15-Aug | 14                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Sat    | 16-Aug |                     |                    |  |                        |                    |  |  |
| Sun    | 17-Aug |                     |                    |  |                        |                    |  |  |
| Mon    | 18-Aug | 17                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Lues   | 19-Aug | 20                  | 1407               | Operational                                      | None                   | N/A                | None   |  |
| Wed    | 20-Aug |                     | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Thurs  | 21-Aug | 19.5                | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Friday | 22-Aug |                     | 1407               | Operational                                      | None                   | N/A                | None   |  |
| Sat    | 23-Aug |                     |                    |  |                        |                    |  |  |
| Sun    | 24-Aug |                     |                    |  |                        |                    |  |  |
| Mon    | 25-Aug | 13                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Lues   | 26-Aug | 20                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Wed    | 27-Aug | 11                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Thurs  | 28-Aug | 19.5                | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Friday | 29-Aug | 17                  | 1406               | Operational                                      | None                   | N/A                | None   |  |
| Sat    | 30-Aug |                     |                    |  |                        |                    |  |  |
| ш      | 31-Aug |                     |                    |  |                        |                    |  |  |

## September 15, 2025

To:

John Paolo Quinto, Mann-Hummel

From:

Matt Dunn, Geosyntec Consultants, Inc.

Subject:

Sampling Results for monthly ROC destruction efficiency of oxidizer

Variance 04R from Santa Barbara County Air Pollution Control District

On Tuesday, August 26<sup>th</sup>, 2025, Geosyntec came to your facility and obtained process gas samples of influent and effluent streams of the thermal oxidizer (TO) to quantify the approximate control efficiency for reactive organic compounds (ROCs) leaving the ACM-VI casting process. This monitoring is part of the monthly monitoring to meet the requirements of the Variance obtained from the Santa Barbara County Air Pollution Control District (SBCAPCD).

Method: We contracted with Atmospheric Analysis and Consulting (AAC) to obtain two Summa cannisters and used the cannisters to gather a process gas sample in and out of the TO. We used the 30-minute flow controllers for sampling and conducted the process samples simultaneously between 10:15 pm and 10:45 pm. Adequate volumes were collected for Method 18 analysis.

Stainless steel tubing was used to convey the sample from the hot effluent and conventional Teflon tubing used to the inlet process side. Beginning and ending pressures of the cannisters were recorded. It was reported to Geosyntec the ACM-VI casting process was continuous during the day and the sampling period. A graphic of the sampling configuration is presented in Figure 1.

The summa cannisters were returned to AAC on August 26<sup>th</sup>, 2025. Method 18 analysis was performed on the two samples and results were provided to Geosyntec on a normal tenday turnaround on September 9<sup>th</sup>, 2025.

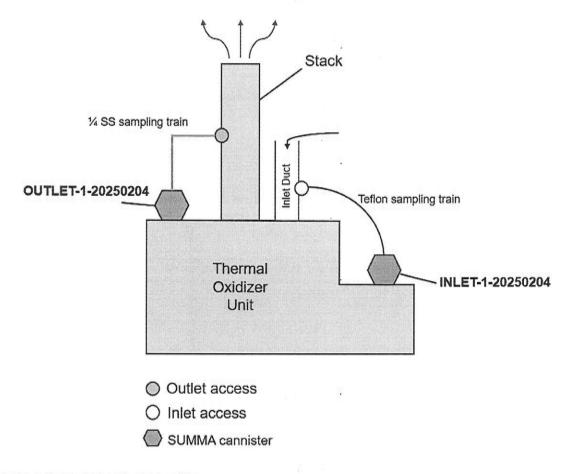


Figure 1 Sampling Configuration

Results: Attachment A to this memo provides the analytical results of the samples quantified by AAC. The results show a significant degree of destruction by the TO. Vapor concentrations of incoming non-methane, non-ethane hydrocarbons (aka reactive organic compounds or ROC) were quantified at 3,908 parts per million (ppm) as methane. The effluent concentrations of non-methane, non-ethane hydrocarbons (30-minute average) were measured at 386 ppm as methane. These one-hour average concentrations are total (wet) and are not adjusted for water content. This sampling data shows the destruction efficiency is around 90% without compensation for the increased outlet flow due to combustion. With an estimated 10% additional flow, the efficiency would be 89%. These results are not directly related to results from an official source test method prescribed by the SBCAPCD permit but provides a good indication.

## ATTACHEMENT A

Test Report



CLIENT

: Geosyntec

PROJECT NAME

: Mann + Hummel

PROJECT NUMBER

: SB1250

AAC PROJECT NO.

: 252156

REPORT DATE

: 09/09/2025

On August 26<sup>th</sup> 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID          | Lab No.      | Return Pressure (mmHg) |
|--------------------|--------------|------------------------|
| Inlet -1-20250826  | 252156-79661 | 608.0                  |
| Outlet -1-20250826 | 252156-79662 | 654.0                  |

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

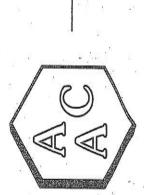
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Technical Director

This report consists of 4 pages.





## LABORATORY ANALYSIS REPORT

CLIENT: Geosyntec PROJECT NO.: 252156 MATRIX: Air UNITS: ppmV

SAMPLING DATE: 08/26/2025
RECEIVING DATE: 08/26/2025
ANALYSIS DATE: 09/08/2025
REPORT DATE: 09/09/2025

C1 to C6+ Hydrocarbons by EPA 18 Modified

| Client ID                   | Inlet -1   | Inlet -1-20250826     |            | Outlet -1- | Outlet -1-20250826   |              | 100             |
|-----------------------------|--|-----------------------|------------|------------|----------------------|--------------|-----------------|
| - AACID                     | 25215  | 252156-79661          | Las        | 252150     | 252156-79662         | ins          |                 |
| Canister Dil. Fac.          | -  | 1.48                  | And Andrew | T          | 1.39                 | OMC.         | Keporting Limit |
| Analyte                     | Result   | Analysis Dil.<br>Fac. | (KATALIA)  | Result     | Analysis Dil.<br>Fac | (KU. X DF'S) | (KL)            |
| Methane                     | . 22   | 1                     | - 0.7      | 10.8       |                      | .0.7         | 0.5             |
| C2 (as Ethane)              | <srl< td=""><td>1</td><td>- 0.7</td><td>37.9</td><td>- 1</td><td>0.7</td><td>0.5</td></srl<> | 1                     | - 0.7      | 37.9       | - 1                  | 0.7          | 0.5             |
| C <sub>3</sub> (as Propane) | <srl< td=""><td>1.1</td><td>. 1.0</td><td>26.7</td><td>-</td><td>0.7</td><td>3.0</td></srl<> | 1.1                   | . 1.0      | 26.7       | -                    | 0.7          | 3.0             |
| C4 (as Butane)              | <srl.< td=""><td>1</td><td>.07</td><td>25.2</td><td>-</td><td>0.7</td><td>50</td></srl.<>    | 1                     | .07        | 25.2       | -                    | 0.7          | 50              |
| C <sub>5</sub> (as Pentane) | 1.0  | . 1                   | . 0.7      | 13.2       |                      | 0.7          | 30              |
| C <sub>6</sub> (as Hexane)  | <\$RL  | -                     | 0.7        | 11.7       | .1                   | 0.7          | 50              |
| Co+ (as Hexane)             | . 969  | 1                     | 6.0        | 15.1       | -                    | 0.7          | 5.0             |
| · THC (as Methane)          | 3910   | I                     | 0.7        | 470        | -                    | 0.7          | 5.0             |
| TNMHC (as Methane)          | 3908   | -                     | 0.7        | . 459      | 1                    | 0.7          | 50              |
| TNMNEHC (as Methane)        | 3908   | -                     | 7.0        | 386        | -                    | 0.3          | 90              |

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dili

THC - Total Hydrocarbons Reported as Methane

TNMHC - Total Non-Methane Hydrocarbons Reported as Methane TNMNEHC - Total Non-Methane Non-Ethane Hydrocarbons Report

www.aaclab.com • (805) 650-1642



## Quality Control/Quality Assurance Report

Cal Verification Date: 09/08/2025

Analyst : DG/RSF

Units: ppmv

Instrument ID: FID #3

Initial Cal Date: 11/09/24 Reporting Limit: 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

| AAC ID Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------|---------|--------|---------|--------|---------|--------|
| Spike Cone     | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
| CCV Result     | 88.8    | 87.9   | 90.7    | 90.2   | 92.0    | 95.1   |
| % Rec *        | 92.3    | 91.8   | 93.7    | 93.6   | 90.7    | 93.4   |

II - Method Blank - EPA 18 Mod

| Analyte          | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|------------------|---------|--------|---------|--------|---------|--------|
| MB Concentration | ND      | ND     | ND      | · ND   | ND      | ND     |

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

| AAC ID Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------|---------|--------|---------|--------|---------|--------|
| Sample Conc    | 0.0     | 0.0    | , 0.0   | 0.0    | 0.0     | 0.0    |
| Spike Cone     | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
| LCS Result     | 93.6    | 92.7   | 95.0    | 95.7   | 98.1    | 102.1  |
| LCSD Result    | 91,2    | 89.2   | 91.8    | 91.6   | 93.8    | 92.3   |
| LCS % Rec *    | 97.3    | 96.9   | 98.2    | 99.3   | 96.7    | 100.3  |
| LCSD % Rec *   | 94,8    | 93.2   | 94.9    | 95.0   | 92.4    | 90.6   |
| % RPD ***      | 2,6     | 3.8    | 3.4     | 4,4    | 4.5     | 10.2   |

IV -Sample & Sample Duplicate - EPA 18 Mod

| AAC ID        | Analyte    |     | Ethane | Propane | Butane | Pentane | Hexane |
|---------------|------------|-----|--------|---------|--------|---------|--------|
|               | Sample     | 1.9 | 0.0    | 0.0     | 0.0    | 0.0     | 0,0    |
| 250961-74179  | Sample Dup | 1.9 | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| 2202417,41179 | Mean       | 1.9 | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
|               | % RPD ***  | 0.4 | 0.0    | 0.0     | 0,0    | 0.0     | 0,0    |

V - Matrix Spike & Duplicate- EPA 18 Mod

| The state of the s |              | r       |        |         |        |         |        |
|--|--------------|---------|--------|---------|--------|---------|--------|
| AAC ID   | Analyte      | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|  | Sample Conc  | 0.9     | 0,0    | - 0.0   | 0.0    | 0.0     | 0.0    |
|  | Spike Conc   | 48.1    | 47.9   | 48.4    | 48.2   | 50.7    | 50.9   |
|  | MS Result    | 47.1    | 44.1   | 45.7    | 45.6   | 47.0    | 48.4   |
| 250961-74179   | MSD Result   | 46.5    | 47.1   | 48.2    | 49.3   | 52.2    | . 54.2 |
|  | MS % Rec **  | 96.1    | 92.1   | 94.5    | 94.6   | 92.6    | 94.9   |
|  | MSD % Rec ** | 94.7    | 98.4   | 99.7    | 102.5  | 103.0   | 106.4  |
|  | % RPD ***    | 1.5     | 6.6    | 5.4     | 8,0    | 10.6    | 11.3   |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| AAC ID Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------------|---------|--------|---------|--------|---------|--------|
| Spike Conc     | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
| CCV Result     | 87.5    | 86.1   | 88.6    | 89.0   | 90.9    | 89.9   |
| % Rec *        | 91.0    | 90.0   | 91,5    | 92.4   | 89.6    | 88,2   |

<sup>\*</sup> Must be 85-115%

Page 3

<sup>\*\*</sup> Must be 75-125%

<sup>\*\*\*</sup> Must be < 25%

ND = Not Detected

<sup>&</sup>lt;RL = less than Reporting Limit

ATMOSPHERIC ANALYSIS & CONSULTING, INC.

2225 Sperry Avenue Ventura, California 93003 Phone (805) 650-1642 E-mail: info@aaclab.com

AAC Project No.

Page 1 of 1

251757

## CHAIN OF CUSTODY/ ANALYSIS REQUEST FORM

| Send report: |                    |                          | Attn: Mattelew. Dunna Geographic | Phone#: 8Φ5-979-9135         | Send invoice to:  |                           | Attr: Marthew , Dunn & Geosy MCC | P.O.# | Turnaround Time<br>24-Hr 48-Hr |   | Specify | Special Instructions/remarks: |  |  | 8/26/2   Print Name          | Print Name                   |
|--------------|--------------------|--------------------------|----------------------------------|------------------------------|-------------------|---------------------------|----------------------------------|-------|--------------------------------|---|---------|-------------------------------|--|--|------------------------------|------------------------------|
|              | Analysis Requested | Ikor                     | 47~                              | ELY                          |                   |                           | 2                                |       |                                |   |         |                               |  |  | Received by (signature):     | Received by (signature):     |
|              |                    |                          |                                  | Type/No. of<br>Containers    | X                 | ×                         |                                  |       |                                |   |         |                               |  |  | Date/Time   S 26/1/5   120/5 | Date/Time                    |
| o.           | + Himmy            | V.                       | gnature                          | Client Sample ID/Description | INUEY-1-2025-0826 | OUNET-1-2025 0826         |                                  |       |                                | 1 |         |                               |  |  | Michael                      |                              |
| Project Name | Mann               | Project Number           | Sampler's Signature              | Sample<br>Type               | Allr              | Air                       |                                  |       | ,                              |   |         |                               |  |  | Print Name:                  | Print Name:                  |
|              |                    |                          | (e)                              | Time<br>Sampled              | 1017-<br>1017-    | 1017                      |                                  |       |                                |   |         |                               |  |  |                              |                              |
|              |                    | (Print Name)             | ame (Print Name                  | Date<br>Sampled              | 8/26/25 10US      | श्रीकार                   |                                  |       |                                |   |         |                               |  |  | Signature):                  | Signature):                  |
| Client Name  | GENSUNTE           | Project Mgr (Print Name) | Sampler's Name (Print Name)      | Z                            | 000108            | न्यावा उद्यावहिंड नहार ०० |                                  |       |                                |   |         |                               |  |  | Relinquished by (Signature): | Relinquished by (Signature): |

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MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

October 16, 2025

To Whom It May Concern:

Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of September. Laboratory analysis indicates that the estimated TO Control Efficiency is calculated as 1 – (348/4944) resulting in an efficiency of approximately 42%.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at johnpaolo.guinto@mann-hummel.com.

Sincerely,

John Paolo Quinto

|        |        |                     | Therm              | mal Oxidizer Operation Tracking Chart | r Operatio             | n Trackin             | ig Chart          |                          |
|--------|--------|---------------------|--------------------|---------------------------------------|------------------------|-----------------------|-------------------|--------------------------|
|        |        |                     |                    | Operational<br>Status                 |                        |                       |                   |                          |
| Day    | Date   | Run Time<br>(Hours) | Operating<br>Temp. | (Operational,<br>Shutdown)            | Deviations<br>(if any) | Cause of<br>Deviation | Repair<br>Actions | Comments                 |
| Mon    | 1-Sep  |                     |                    |                                       |                        |                       |                   | HOLIDAY                  |
| Tues   | 2-Sep  |                     |                    | Operational                           | None                   | N/A                   | None              |                          |
| Wed    | 3-Sep  |                     |                    | Operational                           | None                   | N/A                   | None              |                          |
| Thurs  | 4-Sep  | 20                  | 1406               | Operational                           | None                   | N/A                   | None              |                          |
| Friday | 5-Sep  |                     | 1406               | Operational                           | None                   | N/A                   | None              |                          |
| Sat    | 6-Sep  |                     |                    |                                       |                        |                       |                   | *                        |
| Sun    | 7-Sep  |                     |                    |                                       |                        |                       |                   |                          |
| Mon    | 8-Sep  |                     | 808                | Operational                           | None                   | N/A                   | None              | Nothing Scheduled To Run |
| Fues   | 9-Sep  |                     | 9//                | Operational                           | None                   | N/A                   | None              | Nothing Scheduled To Run |
| Wed    | 10-Sep | 8.5                 |                    | Operational                           | None                   | N/A                   | None              | )                        |
| Thurs  | 11-Sep | 14                  | 1406               | Operational                           | None                   | N/A                   | None              |                          |
| Friday | 12-Sep |                     | 846                | Operational                           | None                   | N/A                   | None              | Nothing Scheduled To Run |
| Sat    | 13-Sep |                     |                    |                                       |                        |                       |                   | •                        |
| Sun    | 14-Sep |                     |                    |                                       |                        |                       |                   |                          |
| Mon    | 15-Sep |                     | 810                | Operational                           | None                   | N/A                   | None              | Nothing Scheduled To Run |
| Lues   | 16-Sep |                     | 1406               | Operational                           | None                   | N/A                   | None              |                          |
| Wed    | 17-Sep | 22                  | 1406               | Operational                           | None                   | N/A                   | None .            |                          |
| Thurs  | 18-Sep |                     | 836                | Operational                           | None                   | N/A                   | None              | Nothing Scheduled To Run |
| Friday | 19-Sep |                     | 802                | Operational                           | None                   | N/A                   | None              | Nothing Scheduled To Run |
| Sat    | 20-Sep |                     |                    |                                       |                        |                       |                   |                          |
| Sun    | 21-Sep |                     |                    |                                       |                        |                       |                   |                          |
| Mon    | 22-Sep |                     | 1407               | Operational                           | None                   | N/A                   | None              |                          |
| Lues   | 23-Sep |                     | 1406               | Operational                           | None                   | N/A                   | None              |                          |
| Wed    | 24-Sep | 2(                  | 1406               | Operational                           | None                   | N/A                   | None              |                          |
| Thurs  | 25-Sep | 19                  | 1406               | Operational                           | None                   | N/A                   | None              |                          |
| Friday | 26-Sep | 19                  | 1406               | Operational                           | None                   | N/A                   | None              |                          |
| Sat    | 27-Sep |                     |                    |                                       |                        |                       |                   |                          |
| Sun    | 28-Sep |                     |                    |                                       |                        |                       |                   |                          |
| Mon    | 29-Sep |                     | 1406               | 1406 Operational                      | None                   | N/A                   | None              |                          |
| Lues   | 30-Sep | 20                  | 1406               | Operational                           | None                   | N/A                   | None              |                          |
|        |        |                     |                    |                                       |                        |                       |                   |                          |

## October 10, 2025

To:

John Paolo Quinto, Mann-Hummel

From:

Matt Dunn, Geosyntec Consultants, Inc.

Subject:

Sampling Results for monthly ROC destruction efficiency of oxidizer
Variance 04R from Santa Barbara County Air Pollution Control District

On Tuesday, September 25<sup>th</sup>, 2025, Geosyntec came to your facility and obtained process gas samples of influent and effluent streams of the thermal oxidizer (TO) to quantify the approximate control efficiency for reactive organic compounds (ROCs) leaving the ACM-VI casting process. This monitoring is part of the monthly monitoring to meet the requirements of the Variance obtained from the Santa Barbara County Air Pollution Control District (SBCAPCD).

Method: We contracted with Atmospheric Analysis and Consulting (AAC) to obtain two Summa cannisters and used the cannisters to gather a process gas sample in and out of the TO. We used the 30-minute flow controllers for sampling and conducted the process samples simultaneously between 10:17 am and 10:47 am. Adequate volumes were collected for Method 18 analysis.

Stainless steel tubing was used to convey the sample from the hot effluent and conventional Teflon tubing used to the inlet process side. Beginning and ending pressures of the cannisters were recorded. It was reported to Geosyntec the ACM-VI casting process was continuous during the day and the sampling period. A graphic of the sampling configuration is presented in Figure 1.

The summa cannisters were returned to AAC on the afternoon October 25<sup>th</sup>, 2025. Method 18 analysis was performed on the two samples and results were provided to Geosyntec on a normal ten-day turnaround on October 8<sup>th</sup>, 2025.

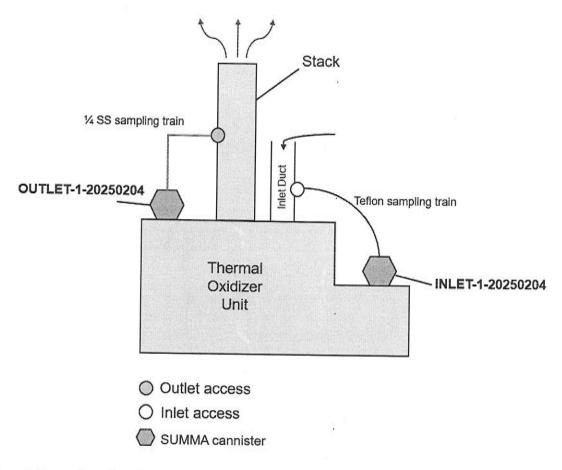


Figure 1 Sampling Configuration

Results: Attachment A to this memo provides the analytical results of the samples quantified by AAC. The results show a significant degree of destruction by the TO. Vapor concentrations of incoming non-methane, non-ethane hydrocarbons (aka reactive organic compounds or ROC) were quantified at 521 parts per million (ppm) as methane. The effluent concentrations of non-methane, non-ethane hydrocarbons (30-minute average) were measured at 303 ppm as methane. These one-hour average concentrations are total (wet) and are not adjusted for water content. This sampling data shows the destruction efficiency is around 42% without compensation for the increased outlet flow due to combustion. With an estimated 10% additional flow, the efficiency would be less than 40%. These results are not directly related to results from an official source test method prescribed by the SBCAPCD permit but provides a good indication.

## ATTACHEMENT A

Test Report



CLIENT

: Geosyntec Consultants

PROJECT NAME

: Mann + Hummel

PROJECT NUMBER

: SB1250

AAC PROJECT NO.

: 252408

REPORT DATE

: 10/08/2025

On September 25<sup>th</sup> 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID         | AAC ID       | Return Pressure (mmHg) |
|-------------------|--------------|------------------------|
| Inlet-1-20250925  | 252408-80695 | 633.0                  |
| Outlet-1-20250925 | 252408-80696 | 640.5                  |

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

This report consists of 4 pages.

Page 1

AAC Project No.

ATMOSPHERIC ANALYSIS & CONSULTING, INC. 2225 Sperry Avenue Ventura, California 93003 Phone (805) 650-1642 E-mail: info@aaclab.com

252408

## CHAIN OF CUSTODY/ ANALYSIS REQUEST FORM

| Client Name                    |                | Bestead M           |                              |                           |       |               |                          |                                |
|--------------------------------|----------------|---------------------|------------------------------|---------------------------|-------|---------------|--------------------------|--------------------------------|
| GAPSUNEL (MOSINITARINE         | Menilland      | N Shr               |                              |                           | •     | Analysis F    | Analysis Requested       | send report:                   |
| Project Mgr (Print Name)       |                | Project Num         | oer /                        |                           | 810   |               |                          | MATTHEN. DUNN & GEOCHNIEC.     |
| MAT CLAYIN                     |                | 3877.LS             | 05                           |                           | lol   |               |                          |                                |
| Sampler's Name (Print Name)    | ame)           | Sampler's Signature | gnature                      |                           | ルジ    |               |                          | Affn:                          |
| AAC Date<br>Sample No. Sampled | Time Sampled   | Sample<br>Type      | Client Sample ID/Description | Type/No. of<br>Containers | 1 A93 |               |                          | Phone# 8 US- 979-9175          |
| 8062- apr                      | 9/25/25/10/7-  | Pir                 | INLET-1-2025 0995            |                           |       |               |                          | Send invoice to:               |
| 150/b 76908                    | 9/25/25 10/17- | Pir                 | outlet-1-20250925            |                           |       | -54 (1994)0.5 |                          | MATTHEW DUNIND GEOSUPPLE.      |
|                                |                |                     |                              |                           |       |               |                          | Affn:                          |
| ,                              |                | 8                   |                              |                           |       |               |                          | P.O.#                          |
|                                |                |                     |                              |                           |       |               | ,                        | Turnaround Time<br>24-Hr 48-Hr |
|                                |                |                     | (3)                          |                           |       |               |                          |                                |
|                                |                |                     |                              |                           |       |               |                          | Specify                        |
|                                |                |                     |                              |                           |       |               |                          | Special Instructions/remarks:  |
|                                |                |                     |                              |                           |       |               |                          |                                |
|                                |                |                     |                              |                           |       |               |                          |                                |
|                                |                |                     |                              |                           |       |               |                          |                                |
| ÿ                              |                |                     | i i                          |                           |       |               |                          |                                |
| Relinquished by (Signature):   | re):           | Print Name:         | Michaelel                    | Date/Time                 | _     | eceivedby     | Received by (signature): | 9/25/25 Print Name             |
| Relinquished by (Signature):   | re):           | Print Name:         | 8                            | Date/Time                 |       | eceived by    | Received by (signature): | Print Name                     |
|                                |                |                     |                              |                           |       |               |                          |                                |

06-2+ m185 + 2+ 25-3

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MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

November 17, 2025

To Whom It May Concern:

Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of September. Laboratory analysis indicates that the estimated TO Control Efficiency is calculated as 1 - (348/4944) resulting in an efficiency of approximately 36%.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at <a href="mailto:johnpaolo.quinto@mann-hummel.com">johnpaolo.quinto@mann-hummel.com</a>.

Sincerely,

John Paolo Quinto

John Paolo Quinto

|            |                  | Т        | hermal Ox      | idizer Opei                      | ration Trac | king Ch    | art     |          |
|------------|------------------|----------|----------------|----------------------------------|-------------|------------|---------|----------|
| David      | Doto             | Run Time | Operating      | Operational Status (Operational, | Deviations  | Cause of   | Repair  | 0        |
| Day        | Date             | (Hours)  | Temp.          | Shutdown)                        | (if any)    | Deviation  | Actions | Comments |
| Wed        | 1-Oct<br>2-Oct   | 20<br>20 | 1,406<br>1,407 | Operational                      | None        | N/A<br>N/A | None    |          |
| Thurs      | 2-Oct            | 20.5     | ,              | Operational                      | None        | N/A<br>N/A | None    |          |
| Fri        | 4-Oct            |          | 1,405<br>1,406 | Operational                      | None        | N/A<br>N/A | None    |          |
| Sat        | _                | 10       | 1,406          | Operational                      | None        | IN/A       | None    |          |
| Sun        | 5-Oct            | 40       | 4.400          | Oneretional                      | Nana        | N/A        | Mana    |          |
| Mon        | 6-Oct            | 12       | 1,406          | Operational                      | None        | N/A<br>N/A | None    |          |
| Tue<br>Wed | 7-Oct            | 13<br>15 | 1,406          | Operational                      | None        |            | None    |          |
|            | 8-Oct            |          | 1,406          | Operational                      | None        | N/A        | None    |          |
| Thurs      | 9-Oct            | 18.5     | 1,407          | Operational                      | None        | N/A        | None    |          |
| Fri        | 10-Oct<br>11-Oct | 6        | 1,407          | Operational                      | None        | N/A        | None    |          |
| Sat        | 12-Oct           | 5        | 1,407          | Operational                      | None        | N/A        | None    |          |
| Sun        |                  | 40       | 4.400          | 0 = = = + = = = 1                | Niere       | NI/A       | Mana    |          |
| Mon        | 13-Oct           | 13       | 1,406          | Operational                      | None        | N/A        | None    |          |
| Tues       | 14-Oct           | 15       | 1,406          | Operational                      | None        | N/A        | None    |          |
| Wed        | 15-Oct           | 20.5     | 1,406          | Operational                      | None        | N/A        | None    |          |
| Thurs      | 16-Oct           | 19.5     | 1,406          | Operational                      | None        | N/A        | None    |          |
| Fri        | 17-Oct           | 20       | 1,405          | Operational                      | None        | N/A        | None    |          |
| Sat        | 18-Oct           | 7        | 1,407          | Operational                      | None        | N/A        | None    |          |
| Sun        | 19-Oct           |          | 4.405          |                                  | <b>.</b>    | N1/A       |         |          |
| Mon        | 20-Oct           | 20       | 1,405          | Operational                      | None        | N/A        | None    |          |
| Tues       | 21-Oct           | 20       | 1,407          | Operational                      | None        | N/A        | None    |          |
| Wed        | 22-Oct           | 20       | 1,407          | Operational                      | None        | N/A        | None    |          |
| Thurs      | 23-Oct           | 20       | 1,406          | Operational                      | None        | N/A        | None    |          |
| Fri        | 24-Oct           | 20       | 1,406          | Operational                      | None        | N/A        | None    |          |
| Sat        | 25-Oct           | 9        | 1,406          | Operational                      | None        | N/A        | None    |          |
| Sun        | 26-Oct           | 5        | 1,406          | Operational                      | None        | N/A        | None    |          |
| Mon        | 27-Oct           | 13       | 1,406          | Operational                      | None        | N/A        | None    |          |
| Tues       | 28-Oct           | 18.5     | 1,406          | Operational                      | None        | N/A        | None    |          |
| Wed        | 29-Oct           | 20       | 1,406          | Operational                      | None        | N/A        | None    |          |
| Thurs      | 30-Oct           | 20       | 1,406          | Operational                      | None        | N/A        | None    |          |
| Fri        | 31-Oct           | 17       | 1,406          | Operational                      | None        | N/A        | None    |          |

To: John Paolo Quinto, Mann-Hummel

From: Matt Dunn, Geosyntec Consultants, Inc.

Subject: Sampling Results for monthly ROC destruction efficiency of oxidizer

Variance 04R from Santa Barbara County Air Pollution Control District

On Tuesday, October 29<sup>th</sup>, 2025, Geosyntec came to your facility and obtained process gas samples of influent and effluent streams of the thermal oxidizer (TO) to quantify the approximate control efficiency for reactive organic compounds (ROCs) leaving the ACM-VI casting process. This monitoring is part of the monthly monitoring to meet the requirements of the Variance obtained from the Santa Barbara County Air Pollution Control District (SBCAPCD).

Method: We contracted with Atmospheric Analysis and Consulting (AAC) to obtain two Summa cannisters and used the cannisters to gather a process gas sample in and out of the TO. We used the 30-minute flow controllers for sampling and conducted the process samples simultaneously between 11:10 am and 11:40 am. Adequate volumes were collected for Method 18 analysis.

Stainless steel tubing was used to convey the sample from the hot effluent and conventional Teflon tubing used to the inlet process side. Beginning and ending pressures of the cannisters were recorded. It was reported to Geosyntec the ACM-VI casting process was continuous during the day and the sampling period. A graphic of the sampling configuration is presented in Figure 1.

The summa cannisters were returned to AAC on the afternoon October 25<sup>th</sup>, 2025. Method 18 analysis was performed on the two samples and results were provided to Geosyntec on a normal ten-day turnaround on November 13<sup>th</sup>, 2025.

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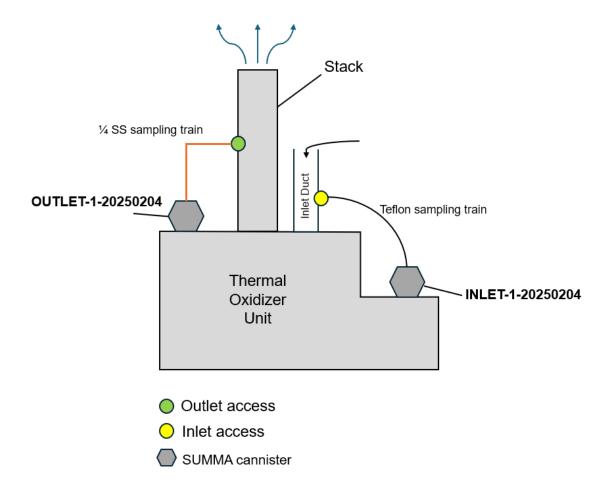
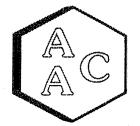


Figure 1 Sampling Configuration

Results: Attachment A to this memo provides the analytical results of the samples quantified by AAC. The results show a significant degree of destruction by the TO. Vapor concentrations of incoming non-methane, non-ethane hydrocarbons (aka reactive organic compounds or ROC) were quantified at 887 parts per million (ppm) as methane. The effluent concentrations of non-methane, non-ethane hydrocarbons (30-minute average) were measured at 564 ppm as methane. These half hour average concentrations are total (wet) and are not adjusted for water content. This sampling data shows the destruction efficiency is around 36% without compensation for the increased outlet flow due to combustion. With an estimated 10% additional flow, the efficiency would be less than 35%. These results are not directly related to results from an official source test method prescribed by the SBCAPCD permit but provides a good indication.

## ATTACHEMENT A

Test Report



CLIENT

: Geosyntec

PROJECT NAME

: Mann + Hummel

AAC PROJECT NO.

: 252764

REPORT DATE

: 11/11/2025

On October 29<sup>th</sup> 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID     | AAC ID       | Return Pressure (mmHg) |
|---------------|--------------|------------------------|
| TO-IN-251029  | 252764-82165 | 624.5                  |
| TO-OUT-251029 | 252764-82166 | 630.5                  |

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Par.I Technical Director

This report consists of 4 pages.



## LABORATORY ANALYSIS REPORT

CLIENT: Geosyntec PROJECT NO.: 252764 MATRIX: Air UNITS: ppmV

SAMPLING DATE: 10/29/2025 RECEIVING DATE: 10/29/2025 ANALYSIS DATE: 11/65/2025 REPORT DATE: 11/11/2025

## C<sub>1</sub> to C<sub>6</sub> + Hydrocarbons by EPA 18 Modified

| Client ID                    | NI-OT  | TO-IN-251029          |                | TO-OU  | TO-OUT-251029         |                |                  |
|------------------------------|--|-----------------------|----------------|--------|-----------------------|----------------|------------------|
| AACID                        | 252764   | 252764-82165          | I as           | 252764 | 252764-82166          | Tay            | Donorting I imit |
| Canister Dil. Fac.           | 1.   | 1.47                  | (DI v DE'e)    | -      | 1.43                  | (DI , DE's)    | (D1)             |
| Analyte                      | Result   | Analysis Dil.<br>Fac. | (s. 171 x 774) | Result | Analysis Dil.<br>Fac. | (N.C.A.D.F. S) | (TXF)            |
| Methane                      | 2.3  |                       | 0.7            | 11.6   |                       | 0.7            | 6.5              |
| C2 (as Ethane)               | <srl< td=""><td></td><td>0.7</td><td>46.1</td><td></td><td>0.7</td><td>0.5</td></srl<>   |                       | 0.7            | 46.1   |                       | 0.7            | 0.5              |
| C <sub>3</sub> (as Propane)  | <srl< td=""><td>,</td><td>6.7</td><td>36.4</td><td>-</td><td>0.7</td><td>0.5</td></srl<> | ,                     | 6.7            | 36.4   | -                     | 0.7            | 0.5              |
| C <sub>4</sub> (as Butane)   | <srl< td=""><td></td><td>0.7</td><td>40.6</td><td></td><td>0.7</td><td>0.5</td></srl<>   |                       | 0.7            | 40.6   |                       | 0.7            | 0.5              |
| C <sub>5</sub> (as Pentane)  | <srl< td=""><td></td><td>7.0</td><td>26.3</td><td>,</td><td>0.7</td><td>0.5</td></srl<>  |                       | 7.0            | 26.3   | ,                     | 0.7            | 0.5              |
| C <sub>6</sub> (as Hexane)   | <srl< td=""><td></td><td>0.7</td><td>12.9</td><td></td><td>0.7</td><td>5.0</td></srl<>   |                       | 0.7            | 12.9   |                       | 0.7            | 5.0              |
| C <sub>6</sub> + (as Hexane) | 158  |                       | 0.7            | 19.2   |                       | 0.7            | 0.5              |
| THC (as Methane)             | 889  |                       | 0.7            | 999    |                       | 0.7            | 0.5              |
| TNMHC (as Methane)           | 887  |                       | 0.7            | 654    |                       | 0.7            | 5.0              |
| TNMINEHC (as Methane)        | 887  |                       | 0.7            | £9£    | ,                     | 0.7            | 0.5              |
|                              |  |                       | 7              |        | 11 317                |                |                  |

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

THC - Total Hydrocarbons Reported as Methane

TNMHC - Total Non-Methane Hydrocurbons Reported as Methane

TNMNEHC - Total Non-Methane Non-Ethane Hydrocarbons Reported as Methane

www.aaclab.com • (805) 650-1642



## Quality Control/Quality Assurance Report

Cal Verification Date: 11/05/2025

Analyst: MP

Units: ppmv

Instrument ID: FID #3

Initial Cal Date: 11/09/24 Reporting Limit: 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

| AAC ID | Analota      |      | Ethane |      | Butane | Dontono | Hexane |
|--------|--------------|------|--------|------|--------|---------|--------|
| S      | THIRE I WILL | 96.1 | 95.7   | 96.8 | 96.3   | 101.5   | 101.9  |
| CCV    | Kesuit       | 89.1 | 87.9   | 91.6 | 91.3   | 92.6    | 92.5   |
|        |              | 92.6 | 91.9   | 94.6 | 94.8   | 91.3    | 90.8   |

II - Method Blank - EPA 18 Mod

| AAC ID Analyte   | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|------------------|---------|--------|---------|--------|---------|--------|
| MB Concentration | ND      | ND     | ND      | ND     | ND      | ND     |

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

|          | Analyte   | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|----------|-----------|---------|--------|---------|--------|---------|--------|
| Sán      | mple Conc | 0.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| Sp       | oike Conc | 96.1    | 95.7   | 96.8    | 96.3   | 101.5   | 101.9  |
| LC       |           | 94.4    | 93.3   | 97.5    | 97.7   | 99.5    | 98.7   |
| LCS      | SD Result | 97.3    | 96.6   | 100.6   | 102.8  | 107.2   | 113.3  |
| £C.      | 5. % Kec  | 98.2    | 97.5   | 100.7   | 101.4  | 98.1    | 96.9   |
| LCS      | D % Rec * | 101.2   | 100.9  | 104.0   | 106.7  | 105.6   | 111.2  |
| <b>%</b> | RPD ***   | 3.0     | 3.5    | 3.2     | 5.0    | 7.5     | 13.8   |

IV -Sample & Sample Duplicate - EPA 18 Mod

| AAC ID Analyte          | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|-------------------------|---------|--------|---------|--------|---------|--------|
| Sample                  | 11 20 1 | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| 250961-74180 Sample Dup | 2.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| ricau                   | 2.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |
| % RPD ***               | 1.8     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0    |

V - Matrix Spike & Duplicate- EPA 18 Mod

| . Daniel and plane to 2 aprilette 23112 to 1110. | ·-      |        |       |        |         |       |
|--|---------|--------|-------|--------|---------|-------|
| AAC ID Analyte                                   | Methane | Ethane |       | Butane | Pentane |       |
| Sample Cone                                      | 1.0     | 0.0    | 0.0   | 0.0    | 0.0     | 0.0   |
| Spike Conc                                       | 48.1    | 47.9   | 48.4  | 48.2   | 50.7    | 50.9  |
| MS Result  | 47.2    | 46.0   | 47.9  | 48.3   | 49.7    | 49.9  |
| 250961-74180 MSD Result                          | 48.0    | 46.8   | 49.3  | 50.2   | 52.1    | 53.3  |
| MS % Rec **                                      | 96.0    | 96.2   | 99.0  | 100.3  | 98.1    | 98.0  |
| MSD % Rec **                                     | 97.7    | 97.9   | 101.9 | 104.2  | 102.7   | 104.6 |
| % RPD ***  | 1.7     | 1.7    | 2.9   | 3.8    | 4.6     | 6.5   |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| AAC ID Analyte | Methane | *.*.*.*.*.*.*.*. | Propane | Butane |         |       |
|----------------|---------|------------------|---------|--------|---------|-------|
| Spike Conc     |         | 95.7             | 96.8    | 96.3   | . 101.5 | 101.9 |
| CCV Result     | 07.3    | 87.4             | 97.7    | 99.8   | 104.3   | 103.6 |
| % Rec *        | 91.0    | 91.3             | 101.0   | 103.7  | 102.8   | 101.7 |

<sup>\*</sup> Must be 85-115%

Page 3

<sup>\*\*</sup> Must be 75-125%

<sup>\*\*\*</sup> Must be < 25%

ND = Not Detected

<sup>&</sup>lt;RL = less than Reporting Limit

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CHAIN OF CUSTODY AND ANALYSIS REQUEST – Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

| Authospheric Analysis and Consulting - Phone: 803-950-1642 - Email: Info@aaclab.com - 2225 Sperfy Ave, Ventura, CA 93003 | ng · rnone: ou              | 2-p20-Tp47 · I     | :mail: inioല         | aaciab.com ·             | 2225 Sperry Ave,   | Ventura, CA 9500          | 03                  | AAC Project No.:                        | :                                    |
|--|-----------------------------|--------------------|----------------------|--------------------------|--|---------------------------|---------------------|---|--------------------------------------|
| Client/Company Name  | Project Name                | 9                  |                      |                          | P  | <b>Analysis Requested</b> | 70                  | Send Report To                          | Send Report To (Name/Email/Address)  |
| Geosyntec<br>Project Manager Name  | Mann + HU<br>Project Number | HUMING(            |                      |                          |  |                           |                     | Mat Down                                | Mat Down,                            |
| Math Donn  |                             | į                  |                      |                          |  |                           |                     | 7 · • • • • • • • • • • • • • • • • • • |                                      |
| Turnaround Time  | Sampler Name                | ne                 |                      |                          |  |                           |                     | Send Invoice To                         | Send Invoice To (Name/Email/Address) |
| ☐ Rush 24 h ☐ Same Day   | Print:                      | Print: Come (2)    | (1)                  |                          |  |                           |                     | Matt Duny,                              |                                      |
|  | Signatures                  |                    | 0 00                 | 0                        | 81   |                           |                     | N N N N N N N N N N N N N N N N N N N   |                                      |
| ☐ Rush 72 h  | ) Signature: (              | }                  | 5                    | 7                        | ı <del>V</del>   |                           |                     | LAB                                     | LAB USE ONLY                         |
| Client Sample Name   | Sample ID                   | Sampling<br>Date   | Sampling<br>Time     | Container<br>Type/Qty    | 93<br>   |                           |                     | Lab ID                                  | Sample Received via:                 |
| TO-1N-251029   | 82165                       | 10/24/25 1110-1140 | 1110-1140            |                          | X  |                           |                     |   | _ □FedEx                             |
| to-out-251029  | 99178                       | 10/29/25 1110-1110 | 1110-1140            |                          | X  |                           |                     |   | - □UPS<br>□Courier                   |
|  |                             |                    |                      |                          |  |                           |                     |   |                                      |
|  |                             |                    |                      |                          |  |                           |                     |   | Temperature                          |
|  |                             |                    |                      |                          |  |                           |                     |   | Thomson of T                         |
|  |                             |                    |                      |                          |  |                           |                     |   |                                      |
|  |                             |                    |                      |                          |  |                           |                     |   | Initials                             |
|  |                             |                    |                      |                          |  |                           |                     |   | Returned Eqmt                        |
|  |                             |                    |                      |                          |  |                           |                     |   | Total cans:                          |
|  |                             |                    | -                    |                          |  |                           |                     |   | Unused cans:                         |
|  |                             |                    |                      |                          |  |                           |                     |   | Flow Controllers:                    |
|  |                             |                    |                      |                          |  |                           |                     |   |                                      |
| Client Notes/Special Instructions: $70-13 - 251029$ ; $FC = R(154)$ , $CaN = 303$  | 4, can = 3                  | 03                 |                      |                          |  | EDD?                      | LAB USE ONLY Notes: |   |                                      |
| TO-cut-25/029: FC = FC13   | 36, can=4                   | <i>&amp;</i>       |                      |                          |  | No.                       |                     |   |                                      |
| Relinquished By Print: Came on Blaul   |                             | Date (6/19/125     | Received B           | Received By Public Anint | lyinto   | Date 10/14/25             |                     |   |                                      |
| Relinquished By  |                             | Date               | Received By          |                          |  |                           | 745                 |   |                                      |
| Print:<br>Signature:   |                             | Time               | Print:<br>Signature: | 37                       | まった<br>2007<br>2007<br>2007<br>2007<br>2007<br>2007<br>2007<br>200 |                           | ر<br>در ج           |   |                                      |
|  | 7×                          | uc cans            | 78.                  |                          |  | >                         |                     |   |                                      |

Issued 02/04/2021

AAC COC Rev 3

25's FC 7×



MANN+HUMMEL 93 S. La Patera Ln Goleta, CA 93117

Santa Barbara County Air Pollution Control District variance@sbcapcd.org

December 16, 2025

To Whom It May Concern:

Please find attached the monitoring and recordkeeping documentation for the thermal oxidizer (TO) for the month of September. Laboratory analysis indicates that the estimated TO Control Efficiency is calculated as 1 - (348/4944) resulting in an efficiency of approximately 90%.

There were no deviations, malfunctions or repair activities reported during the TO's operational period.

If you have any questions or require information, please feel free to contact me at (805) 803-3898 or via email at johnpaolo.quinto@mann-hummel.com.

Sincerely,

John Paolo Quinto

John Paolo Quinto

To: John Paolo Quinto, Mann-Hummel

From: Matt Dunn, Geosyntec Consultants, Inc.

Subject: Sampling Results for monthly ROC destruction efficiency of oxidizer

Variance 04R from Santa Barbara County Air Pollution Control District

On Wednesday 19<sup>th</sup>, 2025, Geosyntec came to your facility and obtained process gas samples of influent and effluent streams of the thermal oxidizer (TO) to quantify the approximate control efficiency for reactive organic compounds (ROCs) leaving the ACM-VI casting process. This monitoring is part of the monthly monitoring to meet the requirements of the Variance obtained from the Santa Barbara County Air Pollution Control District (SBCAPCD).

Method: We contracted with Atmospheric Analysis and Consulting (AAC) to obtain two Summa cannisters and used the cannisters to gather a process gas sample in and out of the TO. We used the 30-minute flow controllers for sampling and conducted the process samples simultaneously between 12:50 am and 1:20 am. Flow into the summa canisters was stopped in the middle of the time period to allow a maintenance event to occur in the ACM<V1 process. Once the event ended, flow into the cannisters was restarted. Adequate volumes were collected for Method 18 analysis.

Stainless steel tubing was used to convey the sample from the hot effluent and conventional Teflon tubing used to the inlet process side. Beginning and ending pressures of the cannisters were recorded. It was reported to Geosyntec the ACM-VI casting process was continuous during the day and the sampling period. A graphic of the sampling configuration is presented in Figure 1.

The summa cannisters were returned to AAC on the afternoon November 20th, 2025. Method 18 analysis was performed on the two samples and results were provided to Geosyntec on a normal ten-day turnaround on December 3rd, 2025.

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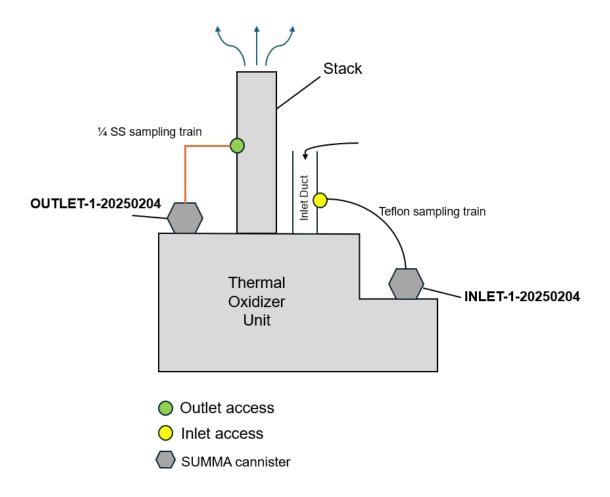


Figure 1 Sampling Configuration

Results: Attachment A to this memo provides the analytical results of the samples quantified by AAC. The results show a significant degree of destruction by the TO. Vapor concentrations of incoming non-methane, non-ethane hydrocarbons (aka reactive organic compounds or ROC) were quantified at 3,288 parts per million (ppm) as methane. The effluent concentrations of non-methane, non-ethane hydrocarbons (30-minute average) were measured at 345 ppm as methane. These half hour average concentrations are total (wet) and are not adjusted for water content. This sampling data shows the destruction efficiency is around 90% without compensation for the increased outlet flow due to combustion. With an estimated 10% additional flow, the efficiency would be less than 88%. These results are not directly related to results from an official source test method prescribed by the SBCAPCD permit but provides a good indication.

## ATTACHEMENT A

Test Report



**CLIENT** 

: Geosyntec

PROJECT NAME

: Mann + Hummel

PROJECT NUMBER

: SB1250

AAC PROJECT NO.

: 252987

REPORT DATE

: 12/03/2025

On November 20, 2025, Atmospheric Analysis & Consulting, Inc. received two (2) Six-Liter Summa Canisters for Hydrocarbon analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID     | AAC ID       | Return Pressure (mmHg) |
|---------------|--------------|------------------------|
| TO-IN-251119  | 252987-83237 | 626.0                  |
| TO-OUT-251119 | 252987-83238 | 634.0                  |

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

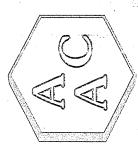
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sacha Parmar, Ph.D

This report consists of 4

pages.



## LABORATORY ANALYSIS REPORT

CLIENT: Geosyntec PROJECT NO.: 252987 MATRIX: Air

UNITS: ppmV

SAMPLING DATE: 11/19/2025

ANALYSIS DATE: 12/03/2025 REPORT DATE: 12/03/2025 **RECEIVING DATE: 11/20/2025** 

## $C_1$ to $C_6$ + Hydrocarbons by EPA 18 Modified

| Client ID                    | TO-IN  | TO-IN-251119          |           | TO-OT  | TO-0UT-251119         |             |                 |
|------------------------------|--|-----------------------|-----------|--------|-----------------------|-------------|-----------------|
| AACID                        | 25298  | 252987-83237          | ZBI       | 252987 | 252987-83238          | - Igy       | Dangarting I :: |
| Canister Dil. Fac.           |  | 1.5                   | CDI - DEF | П      | 9.1                   | ONE TOPIC   | Acporting Limit |
| Anal te                      | Result   | Analysis Dil.<br>Fac. | (KLADES)  | Result | Analysis Dil.<br>Fac. | (KL X DF S) | (WF)            |
| Methane                      | 4.6  | 1                     | 0.7       | 7.6    | I                     | 8.0         | 0.5             |
| C <sub>2</sub> (as Ethane)   | <srl< td=""><td>1</td><td>0.7</td><td>32.3</td><td>1</td><td>8.0</td><td>0.5</td></srl<> | 1                     | 0.7       | 32.3   | 1                     | 8.0         | 0.5             |
| C <sub>3</sub> (as Propane)  | <srl< td=""><td>T</td><td>0.7</td><td>28.5</td><td>1</td><td>8.0</td><td>0.5</td></srl<> | T                     | 0.7       | 28.5   | 1                     | 8.0         | 0.5             |
| C <sub>4</sub> (as Butane)   | <srl< td=""><td>I</td><td>0.7</td><td>27.6</td><td>1</td><td>8.0</td><td>0.5</td></srl<> | I                     | 0.7       | 27.6   | 1                     | 8.0         | 0.5             |
| C <sub>5</sub> (as Pentane)  | 1.2  | 1                     | 0.7       | 12.2   | 1                     | 8.0         | 0.5             |
| C <sub>6</sub> (as Hexane)   | <srl< td=""><td>1</td><td>0.7</td><td>1.8</td><td></td><td>8.0</td><td>0.5</td></srl<>   | 1                     | 0.7       | 1.8    |                       | 8.0         | 0.5             |
| C <sub>6</sub> + (as Hexane) | 585  | 1                     | 0.7       | 16.0   | 1                     | 0.8         | 0.5             |
| THC (as Methane)             | 3293   | 1                     | 0.7       | 418    | 1                     | 8.0         | 0.5             |
| TNMHC (as Methane)           | 3288   | 1                     | 0.7       | 408    | 1                     | 8.0         | 0.5             |
| TNMNEHC (as Methane)         | 3288   | 1                     | 0.7       | 345    | 1                     | 0.8         | 0.5             |

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)

THC - Total Hydrocarbons Reported as Methane

TNMHC - Total Non-Methane Hydrocarbons Reported as Methane

TNMNEHC - Total Non-Methane Non-Ethane Hydrocarbons Reported as Methane

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## Quality Control/Quality Assurance Report

Cal Verification Date: 12/03/2025

Analyst: MP

Units: ppmv

Instrument ID: FID #3

Initial Cal Date: 11/09/24 Reporting Limit: 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

|       | AAC ID | Analyte                | Methane |      | Propane | Rutane |       | Hexane |
|-------|--------|------------------------|---------|------|---------|--------|-------|--------|
| -∦;-  |        | · · · Spike Conc · · l | 96.1    | 95.7 | 96.8    | 96.3   | 101.5 | 101.9  |
|       | CCV    |                        | 89.8    | 90.0 | 93.9    | 94.1   | 95.4  | 100.8  |
| -11:- |        | % Rec *                | 93.4    | 94.0 | 97.0    | 97.7   | 94.0  | 98.9   |

II - Method Blank - EPA 18 Mod

|       | AAC ID Analyte   | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|-------|------------------|---------|--------|---------|--------|---------|--------|
| ::::: | MB Concentration | ND      | ND     | ND      | ND     | ND      | ND     |

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

| TIT DANGERTON CONTROL OF DUPINGER |         |        |         |        | <del></del> |        |
|-----------------------------------|---------|--------|---------|--------|-------------|--------|
| AAC ID Analyte                    | Methane | Ethane | Propane | Butane | Pentane     | Hexane |
| Sample Conc                       | 0.0     | 0.0    | 0.0     | 0.0    | 0.0         | 0.0    |
| Spike Conc                        | 96.1    | 95.7   | 96.8    | 96.3   | 101.5       | 101.9  |
| LCS Result                        | 91.4    | 90.8   | 94.2    | 95.1   | 96.4        | 99.0   |
| LCSD Result                       | 92.1    | 91.5   | 95.2    | 94.6   | 96.0        | 94.9   |
| LCS % Rec *                       | 95.1    | 94.9   | 97.4    | 98.7   | 95.0        | 97.2   |
| LCSD % Rec *                      | 95.8    | 95.7   | 98.3    | 98.2   | 94.6        | 93.2   |
| % RPD ***                         | 0.7     | 0.8    | 1.0     | 0.5    | 0.4         | 4.2    |

IV -Sample & Sample Duplicate - EPA 18 Mod

| AAC ID Analyte    | Mathana | Linane | Dudaaaaa |     | Dantana |     |
|-------------------|---------|--------|----------|-----|---------|-----|
| Sample            | 1.8     | 0.0    | 0.0      | 0.0 | 5.4     | 0.0 |
| Sample Dup        | 1.9     | 0.0    | 0.0      | 0.0 | 5.4     | 0.0 |
| 251859-/8265 Mean | 1.8     | 0.0    | 0.0      | 0.0 | 0.0     | 0.0 |
| % RPD ***         | 4.3     | 0.0    | 0.0      | 0.0 | 0.0     | 0.0 |

V - Matrix Spike & Duplicate- EPA 18 Mod

| AAC ID      | Analyte      | Methane | Ethane | Propane |       | Pentane | Hexane |
|-------------|--------------|---------|--------|---------|-------|---------|--------|
|             | Sample Conc  | 0.9     | 0.0    | 0.0     | 0.0   | 0.0     | 0.0    |
|             | Spike Conc   | 48.1    | 47.9   | 48.4    | 48.2  | 50.7    | 50.9   |
|             | MS Result    | 48.7    | 46.9   | 53.4    | 54.4  | 58.4    | 56.8   |
| 251859-7826 | MSD Result   | 48.0    | 46.0   | 49.4    | 51.0  | 54.4    | 53.7   |
|             | MS % Rec **  | 99.5    | 98.1   | 110.3   | 112.9 | 115.1   | 111.4  |
|             | MSD % Rec ** | 98.0    | 96.1   | 102.1   | 105.9 | 107.2   | 105.5  |
|             | % RPD ***    | 1.5     | 2.0    | 7.8     | 6.4   | 7.1     | 5.5    |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| AAC ID Analyte | h    |      | Propane | Butane |       | Hexane |
|----------------|------|------|---------|--------|-------|--------|
| Spike Conc     |      | 95.7 | 96.8    | 96.3   | 101.5 | 101.9  |
| CCV Result     | 05.5 | 86.0 | 92.2    | 96.5   | 98.7  | 102.0  |
| % Rec *        | 88.7 | 89.9 | 95.3    | 100.2  | 97.2  | 100.1  |

<sup>\*</sup> Must be 85-115%

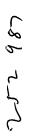
Page 3

<sup>\*\*</sup> Must be 75-125%

<sup>\*\*\*</sup> Must be < 25%

ND = Not Detected

<sup>&</sup>lt;RL = less than Reporting Limit





CHAIN OF CUSTODY AND ANALYSIS REQUEST – Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

| #Unive   Park   | Atmospheric Analysis and Consulting · Phone: 805-650-1642 · | ing · Phone: 80 | 5-650-1642 · [       | mail: info@                   | aaclab.com ·          | Email: info@aaclab.com · 2225 Sperry Ave, Ventura, CA 93003 | Ventura, CA 9300     | 03                     | AAC Project No.: |                                      |
|---|---|-----------------|----------------------|-------------------------------|-----------------------|---|----------------------|------------------------|------------------|--------------------------------------|
| Mann  | Company Name  | Project Name    | υ.                   |                               |                       | 1   | Analysis Requested   | g                      | Send Report To   | Send Report To (Name/Email/Address)  |
| Selection   Selection   Selection   Selection   Selection   Semple Name   | Mercagor Name   | Mann +          | Hummel               |                               |                       | -   |                      |                        | Mat Ponn         | 4                                    |
| Sampler Name  me Day  Print: Converon Bloud  Sampling Container  Sample in Sampling Sampling Container  Sample in Sampling Sampling Container  Sample in Sampling Container  Itime Mile Sample in Print:  Time Print:  Time Sample in Sample in Sample in Sample S  | Dunn  | SB1250          | <u>.</u> 0           |                               |                       |   |                      |                        | geosynter.com    | JOHN @                               |
| me Day  me Day  me Day  Signature: C.   | ound Time   | Sampler Nan     | ne                   |                               |                       |   |                      |                        | Send Invoice To  | Send Invoice To (Name/Email/Address) |
| Sample   Date   Time   Mid   E   Sampling   | ا ليا   | Print: Calm     | von Blau             | 9                             |                       | ଌ   |                      | -                      | SAA              |                                      |
| Sample ID   Sampling   Sampling   Container   War   |   | Signature: (    | 1                    | BC                            | 0                     | 1 H.  |                      |                        | PO Number        | er<br>LAB USE ONLY                   |
| 83237 N/4(25 (158)/320 X  83238 11/14/25 (158)/320 X  Structions:  C = FC 254, Can = Ool 317  C = FC 156, Can = Ool 317  Time IMIO Signature:  Date Print:  Time IMIO Signature:  Time INIO Date   Print   Ped E    Time IMIO Signature:  Time INIO Date   Print   Time IMIO Date    Time IMIO Signature:  Time IMIO Signature:  Time IMIO Time IMIO Date    Time IMIO Signature:  Time IMIO Signature:  Time IMIO Time IMIO Date    Time IMIO Signature:  Time IMIO Time IMIO Date    Time IMIO Signature:  Time IMIO Signature:  Time IMIO Time IMIO Time IMIO Date    Time IMIO Date    Time IMIO Signature:  Time IMIO Time Time IMIO Time Time IMIO Time Time Time Time Time Time Time Time  | Sample Name   | Sample ID       | Sampling<br>Date     | Sampling<br>Time              | Container<br>Type/Qty | <b>13</b>   |                      |                        | Lab ID           | Sample Received via:                 |
| 83238   / q/tcs   750/320   | N-251119  | 83237           |                      | 1159/320                      |                       | X   |                      |                        |                  | ☐FedEx                               |
| CaN = Ool3i $CaN = Ool3i$ $CaN = Date$ $Date$ $CaN = Date$ $CaN = D$  | UT - 251119   | 83238           |                      | 1250/320                      |                       | χ   |                      |                        |                  | ☐ ∐Courier                           |
| Lan = $0013i$ ?  Lan = $0013i$ ?  Lan = $0013i$ ?  Lan = $0013i$ ?  Date  Date  Received By  Intervet  Date  Received By  Time 1410  Date  Print:  Time 1410  Time 1410  Time 1410  Time 1410  Time 1410  |   |                 |                      |                               |                       |   |                      |                        |                  |                                      |
| CaN = OO 3  $CaN = OO 3 $   |   |                 |                      | ٠                             |                       |   |                      |                        | 100              | Temperature                          |
| $CaN = 0013i \mathcal{F}$ $CaN = 0002i \mathcal{F}$ $CaN = 0002i$ |   |                 |                      |                               |                       |   |                      |                        |                  | Thermometer                          |
| $CaN = 001317$ $CaN = 0001317$ $CaN = 000201$ $Date   V/4/2 \le Print: FcdEX   I/4/2 \le I/4/0 \le I/4/0 = I/1/0 = $  |   |                 |                      |                               |                       |   |                      |                        |                  | 0)                                   |
| CaN = 0013i ? $CaN = 0002i ?$ $CaN = 0002i$   | •   |                 |                      |                               |                       |   |                      |                        |                  | Initials                             |
| $La_{N} = 001317$ $La_{N} = 000217$ $La_{N} = 00020$ $La$  |   |                 |                      |                               |                       |   |                      |                        |                  | Returned Eqmt                        |
| Can = $00131$ ?  Can = $00131$ ?  Can = $00131$ ?  Date  Date  In   4 0   5 0    Date   11/19/25    Time   4 0    Date   11/19/25    Time   11/19/25  |   |                 |                      |                               |                       |   |                      |                        |                  | Total cans:                          |
| $La_{N} = 0013i ?$ $La_{N} = 0002i ?$ $Date                                      $  |   |                 |                      |                               |                       |   |                      |                        |                  | Unused cans:                         |
| Can = $001317$ Can = $0001317$ Can = $000217$ Date  Date  In  |   |                 |                      |                               |                       |   |                      |                        |                  | Flow Controllers:                    |
| Can = $00/3/7$ Can = $00/3/7$ Date  Date  |   |                 |                      |                               |                       |   | 1.                   |                        |                  |                                      |
| Date Received By  | Notes/Special Instructions:                                 | Can # 00        | 1317                 |                               |                       |   | EDD?                 | LAB USE ONLY<br>Notes: |                  |                                      |
| Date   Received By   II/14/2   Print: Fcd Ex   Ime   IM10   Signature:   Date   Print:   Time   Signature:   Management   Signature:   Management   Signature:   Management   Management   Management   Signature:   Management   Management   Signature:   Management   Signature:   Management   Signature:   Management   Management   Signature:   Management   Management   Signature:   Management   Signature:   Management   | ut-251119: FC= FC 136                                       | Cans De         | 20205                |                               |                       |   | ON CA                |                        |                  |                                      |
| Time 1410 Signature: Date Received By Print: Time Signature:  | ished By  |                 | Date                 | Received B                    | ۸ ا                   | _   | Date                 |                        |                  |                                      |
| ed By  Date Received By  Print:  Time Signature:  | ameran Blaud  |                 | 7/14/63<br>Time 1410 | Print: $f_{ed}$<br>Signature: | E S                   |   | 1/14/25<br>Time 1410 |                        | 186              |                                      |
| Time Signature:   | ished By  |                 | Date                 | Received B                    | \ \ \ \               |   | Date 11 20 h         |                        | 7                |                                      |
|   | <u>:</u>  |                 | Time                 | Print:<br>Signature:          | N N                   | 7   | Time (1/12)          |                        |                  |                                      |
|   |   |                 |                      |                               |                       |   |                      |                        |                  |                                      |

FX 2XCans +2X 25.3 FC

Page\_\_\_of\_

AAC COC Rev 3

|       |        |                     | Thermal C          | Oxidizer O  | peration T             | racking C          | hart           |          |
|-------|--------|---------------------|--------------------|---|------------------------|--------------------|----------------|----------|
| Day   | Date   | Run Time<br>(Hours) | Operating<br>Temp. | Operational<br>Status<br>(Operational,<br>Shutdown) | Deviations<br>(if any) | Cause of Deviation | Repair Actions | Comments |
| Sat   | 1-Nov  | ,                   | •                  | ,   | , ,,                   |                    | •              |          |
| Sun   | 2-Nov  |                     |                    |   |                        |                    |                |          |
| Mon   | 3-Nov  | 9                   | 1406               | Operational   | None                   | N/A                | None           |          |
| Tues  | 4-Nov  | 19.5                | 1406               | Operational   | None                   | N/A                | None           |          |
| Wed   | 5-Nov  | 13                  | 1406               | Operational   | None                   | N/A                | None           |          |
| Thurs | 6-Nov  | 10.5                | 1406               | Operational   | None                   | N/A                | None           |          |
| Fri   | 7-Nov  | 6                   | 1406               | Operational   | None                   | N/A                | None           |          |
| Sat   | 8-Nov  |                     |                    |   |                        |                    |                |          |
| Sun   | 9-Nov  |                     |                    |   |                        |                    |                |          |
| Mon   | 10-Nov | 5                   |                    | Operational   | None                   | N/A                | None           |          |
| Tues  | 11-Nov | 19.5                |                    | Operational   | None                   | N/A                | None           |          |
| Wed   | 12-Nov | 19.5                |                    | Operational   | None                   | N/A                | None           |          |
| Thurs | 13-Nov | 20                  | 1406               | Operational   | None                   | N/A                | None           |          |
| Fri   | 14-Nov | 13                  | 1406               | Operational   | None                   | N/A                | None           |          |
| Sat   | 15-Nov |                     |                    |   |                        |                    |                |          |
| Sun   | 16-Nov |                     |                    |   |                        |                    |                |          |
| Mon   | 17-Nov | 9                   | 1406               | Operational   | None                   | N/A                | None           |          |
| Tues  | 18-Nov | 19                  |                    | Operational   | None                   | N/A                | None           |          |
| Wed   | 19-Nov | 19                  | 1406               | Operational   | None                   | N/A                | None           |          |
| Thurs | 20-Nov | 17                  |                    | Operational   | None                   | N/A                | None           |          |
| Fri   | 21-Nov | 11.5                | 1406               | Operational   | None                   | N/A                | None           |          |
| Sat   | 22-Nov |                     |                    |   |                        |                    |                |          |
| Sun   | 23-Nov |                     |                    |   |                        |                    |                |          |
| Mon   | 24-Nov | 11                  |                    | Operational   | None                   | N/A                | None           |          |
| Tues  | 25-Nov | 19.5                | 1406               | Operational   | None                   | N/A                | None           |          |
| Wed   | 26-Nov | 12                  | 1406               | Operational   | None                   | N/A                | None           |          |
| Thurs | 27-Nov |                     |                    |   |                        |                    |                | HOLIDAY  |
| Fri   | 28-Nov |                     |                    |   |                        |                    |                | HOLIDAY  |
| Sat   | 29-Nov |                     |                    |   |                        |                    |                |          |
| Sun   | 30-Nov |                     |                    |   |                        |                    |                |          |