



April 24, 2019

Tasman Geosciences

Brian Humphrey

6899 Pecos Street, Unit C

Denver

CO 80211

Project Name - DCP - CR42 & CR13

Project Number - [none]

Attached are your analytical results for DCP - CR42 & CR13 received by Origins Laboratory, Inc. April 18, 2019. This project is associated with Origins project number Y904328-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---------------|---------------|--------|----------------------|------------------|
| Sub-Slab SE01 | Y904328-01 | Air | April 18, 2019 14:38 | 04/18/2019 16:40 |
| Sub-Slab NW01 | Y904328-03 | Air | April 18, 2019 14:12 | 04/18/2019 16:40 |
| Sub-Slab SW01 | Y904328-05 | Air | April 18, 2019 13:35 | 04/18/2019 16:40 |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

www.originslaboratory.com

page of

1904328

Client: Tolman / DCL
Address: 6899 Pecan St.

Telephone Number: 302-396-7887
Email Address: bhumphrey@tolman-jco.com

Project Manager: Brian Humphrey
Project Name: DCP CR42 + C&I3
Project Number:
Samples Collected By: B.Humphrey

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | | | | Preservative | | | Matrix | | Analysis | | Sample Instructions |
|-----------------------|--------------|--------------|--------------------------|-----|------------------|-------------|--------------|------|----------------|--------|------------------|----------------------------|---------------------|---------------------|
| | | | Unpreserved | HCl | HNO ₃ | Other Aque. | Groundwater | Soil | Air Continer # | Other | | | | |
| Sub-Slab SFOI | 4/18/19 | 1438 | X | | | X | | | (X) 14688 | | X | As m FILL VOC 1945 # | Can # HEP5 | |
| Sub-Slab SFOI | | 1508 | | | | | | | 11843 | | X | | X Propene + Methane | |
| Sub-Slab NWOI | | 1412 | | | | | | | 14680 | | X | | 3 | |
| Sub-Slab NWOI | | 1357 | | | | | | | 11878 | | X | | X Propene + Methane | |
| Sub-Slab SWOI | | 1335 | | | | | | | 14698 | | X | | 5 | |
| Sub-Slab SWOI | | 1410 | | | | | | | 10565 | | X | | X Propene + Methane | |
| | | | | | | | | | | | | | 7 | |
| | | | | | | | | | | | | | 8 | |
| | | | | | | | | | | | | | 9 | |
| | | | | | | | | | | | | | 10 | |
| Relinquished By: | Date: | Time: | Received By: [Signature] | | | | Date: | | Time: | | Turnaround Time: | | | |
| MMS Construction | 4/18/19 | 1640 | | | | | 4/18/19 | | 1640 | | Same Day X 24 Hr | | | |
| Relinquished By: | Date: | Time: | Received By: | | | | Date: | | Time: | | 48 Hr Standard | | | |

Temp Received: — Date Results Needed

Origins Laboratory, Inc.

Jose Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y904328

Client: Tasman

Client Project ID: DCP CR 42 + CR13

Checklist Completed by: JG

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/18/2019

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water X Other: Air

Cooler Number/Temperature: 1 / - °C 1 / - °C 1 / - °C (Describe)

Thermometer ID: T003

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | <u>Air</u> |
| Is there ice present (document if blue ice is used) | | <input checked="" type="checkbox"/> | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| For volatiles in water - Is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative. | | | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄ / (pH >10 for samples preserved with Na ₂ CO ₃ +NaOH, ZnAc+NaOH) | | | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

4/18/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab SE01
4/18/2019 2:38:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-01 (Air)

VOCs by TO-15

| | | | | | | | | | | T |
|---------------------------|----|------|-----------------------|-----|---------|-----|------------|------------|--|---|
| 1,1,1-Trichloroethane | ND | 250 | ug/m ³ Air | 250 | B9D1805 | DPM | 04/18/2019 | 04/18/2019 | | U |
| 1,1,2,2-Tetrachloroethane | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,1,2-Trichloroethane | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,1-Dichloroethane | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,1-Dichloroethene | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,2,4-Trichlorobenzene | ND | 1250 | " | " | " | DPM | " | " | | U |
| 1,2,4-Trimethylbenzene | ND | 500 | " | " | " | DPM | " | " | | U |
| 1,2-Dichlorobenzene | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,2-Dichloroethane | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,2-Dichloropropane | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,2-Dibromoethane | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,3,5-Trimethylbenzene | ND | 500 | " | " | " | DPM | " | " | | U |
| 1,3 Butadiene | ND | 220 | " | " | " | DPM | " | " | | U |
| 1,3-Dichlorobenzene | ND | 250 | " | " | " | DPM | " | " | | U |
| 1,4-Dichlorobenzene | ND | 250 | " | " | " | DPM | " | " | | U |
| 4-Ethyltoluene | ND | 500 | " | " | " | DPM | " | " | | U |
| Acetone | ND | 500 | " | " | " | DPM | " | " | | U |
| Benzene | ND | 125 | " | " | " | DPM | " | " | | U |

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Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab SE01
4/18/2019 2:38:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-01 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|-------------------------|------|-----|-----------------------|-----|---------|-----|------------|------------|---|
| Benzyl chloride | ND | 250 | ug/m ³ Air | 250 | B9D1805 | DPM | 04/18/2019 | 04/18/2019 | U |
| Bromodichloromethane | ND | 250 | " | " | " | DPM | " | " | U |
| Bromoform | ND | 250 | " | " | " | DPM | " | " | U |
| 2-Hexanone | ND | 500 | " | " | " | DPM | " | " | U |
| Bromomethane | ND | 250 | " | " | " | DPM | " | " | U |
| Carbon disulfide | ND | 250 | " | " | " | DPM | " | " | U |
| Carbon Tetrachloride | ND | 250 | " | " | " | DPM | " | " | U |
| 4-Methyl-2-pentanone | 1390 | 250 | " | " | " | DPM | " | " | |
| Chlorobenzene | ND | 250 | " | " | " | DPM | " | " | U |
| Chloroethane | ND | 250 | " | " | " | DPM | " | " | U |
| Chloroform | ND | 250 | " | " | " | DPM | " | " | U |
| Chloromethane | ND | 250 | " | " | " | DPM | " | " | U |
| cis-1,2-Dichloroethene | ND | 250 | " | " | " | DPM | " | " | U |
| cis-1,3-Dichloropropene | ND | 250 | " | " | " | DPM | " | " | U |
| Dibromochloromethane | ND | 250 | " | " | " | DPM | " | " | U |
| Ethanol | ND | 250 | " | " | " | DPM | " | " | U |
| Ethylbenzene | ND | 250 | " | " | " | DPM | " | " | U |
| Freon 113 | ND | 250 | " | " | " | DPM | " | " | U |

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Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab SE01
4/18/2019 2:38:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-01 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|---------------------------|--------------|-----|-----------|-----|---------|-----|------------|------------|---|
| Freon 11 | ND | 250 | ug/m³ Air | 250 | B9D1805 | DPM | 04/18/2019 | 04/18/2019 | U |
| Freon 12 | ND | 250 | " | " | " | DPM | " | " | U |
| Freon 114 | ND | 250 | " | " | " | DPM | " | " | U |
| Heptane | 7200 | 500 | " | " | " | DPM | " | " | |
| Hexane | 35100 | 250 | " | " | " | DPM | " | " | |
| Hexachlorobutadiene | ND | 625 | " | " | " | DPM | " | " | U |
| m,p-Xylene | 673 | 500 | " | " | " | DPM | " | " | |
| Methyl tert-Butyl Ether | ND | 250 | " | " | " | DPM | " | " | U |
| Methylene Chloride | ND | 250 | " | " | " | DPM | " | " | U |
| Naphthalene | ND | 750 | " | " | " | DPM | " | " | U |
| o-Xylene | ND | 250 | " | " | " | DPM | " | " | U |
| Styrene | ND | 500 | " | " | " | DPM | " | " | U |
| Tetrachloroethene | ND | 250 | " | " | " | DPM | " | " | U |
| Tetrahydrofuran | ND | 250 | " | " | " | DPM | " | " | U |
| Toluene | ND | 500 | " | " | " | DPM | " | " | U |
| trans-1,2-Dichloroethene | ND | 250 | " | " | " | DPM | " | " | U |
| trans-1,3-Dichloropropene | ND | 250 | " | " | " | DPM | " | " | U |
| Trichloroethene | ND | 250 | " | " | " | DPM | " | " | U |

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6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab SE01

4/18/2019 2:38:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-01 (Air)

VOCs by TO-15

| | | | | | | | | | | T |
|----------------------------------|----------|---------|-----------------------|-------|---------|-----|------------|------------|--|---|
| Vinyl acetate | ND | 250 | ug/m ³ Air | 250 | B9D1805 | DPM | 04/18/2019 | 04/18/2019 | | U |
| Vinyl chloride | ND | 250 | " | " | " | DPM | " | " | | U |
| Gasoline Range Hydrocarbons | 34400000 | 5000000 | " | 25000 | " | DPM | " | " | | |
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 70-130 | | | " | " | " | " | | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | | " | " | " | " | | |
| Surrogate: 4-Bromofluorobenzene | 93.3 % | 70-130 | | | " | " | " | " | | |

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab NW01

4/18/2019 2:12:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-03 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|---------------------------|----|------|-----------------------|---|---------|-----|------------|------------|---|
| 1,1,1-Trichloroethane | ND | 4.00 | ug/m ³ Air | 4 | B9D1805 | DPM | 04/18/2019 | 04/19/2019 | U |
| 1,1,2,2-Tetrachloroethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,1,2-Trichloroethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,1-Dichloroethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,1-Dichloroethene | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,2,4-Trichlorobenzene | ND | 20.0 | " | " | " | DPM | " | " | U |
| 1,2,4-Trimethylbenzene | ND | 8.00 | " | " | " | DPM | " | " | U |
| 1,2-Dichlorobenzene | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,2-Dichloroethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,2-Dichloropropane | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,2-Dibromoethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,3,5-Trimethylbenzene | ND | 8.00 | " | " | " | DPM | " | " | U |
| 1,3 Butadiene | ND | 3.52 | " | " | " | DPM | " | " | U |
| 1,3-Dichlorobenzene | ND | 4.00 | " | " | " | DPM | " | " | U |
| 1,4-Dichlorobenzene | ND | 4.00 | " | " | " | DPM | " | " | U |
| 4-Ethyltoluene | ND | 8.00 | " | " | " | DPM | " | " | U |
| Acetone | ND | 8.00 | " | " | " | DPM | " | " | U |
| Benzene | ND | 2.00 | " | " | " | DPM | " | " | U |

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab NW01

4/18/2019 2:12:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-03 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|-------------------------|----|------|-----------------------|---|---------|-----|------------|------------|---|
| Benzyl chloride | ND | 4.00 | ug/m ³ Air | 4 | B9D1805 | DPM | 04/18/2019 | 04/19/2019 | U |
| Bromodichloromethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| Bromoform | ND | 4.00 | " | " | " | DPM | " | " | U |
| 2-Hexanone | ND | 8.00 | " | " | " | DPM | " | " | U |
| Bromomethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| Carbon disulfide | ND | 4.00 | " | " | " | DPM | " | " | U |
| Carbon Tetrachloride | ND | 4.00 | " | " | " | DPM | " | " | U |
| 4-Methyl-2-pentanone | ND | 4.00 | " | " | " | DPM | " | " | U |
| Chlorobenzene | ND | 4.00 | " | " | " | DPM | " | " | U |
| Chloroethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| Chloroform | ND | 4.00 | " | " | " | DPM | " | " | U |
| Chloromethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| cis-1,2-Dichloroethene | ND | 4.00 | " | " | " | DPM | " | " | U |
| cis-1,3-Dichloropropene | ND | 4.00 | " | " | " | DPM | " | " | U |
| Dibromochloromethane | ND | 4.00 | " | " | " | DPM | " | " | U |
| Ethanol | ND | 4.00 | " | " | " | DPM | " | " | U |
| Ethylbenzene | ND | 4.00 | " | " | " | DPM | " | " | U |
| Freon 113 | ND | 4.00 | " | " | " | DPM | " | " | U |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab NW01

4/18/2019 2:12:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-03 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|---------------------------|-----|------|-----------------------|---|---------|-----|------------|------------|---|
| Freon 11 | ND | 4.00 | ug/m ³ Air | 4 | B9D1805 | DPM | 04/18/2019 | 04/19/2019 | U |
| Freon 12 | ND | 4.00 | " | " | " | DPM | " | " | U |
| Freon 114 | ND | 4.00 | " | " | " | DPM | " | " | U |
| Heptane | ND | 8.00 | " | " | " | DPM | " | " | U |
| Hexane | ND | 4.00 | " | " | " | DPM | " | " | U |
| Hexachlorobutadiene | ND | 10.0 | " | " | " | DPM | " | " | U |
| m,p-Xylene | ND | 8.00 | " | " | " | DPM | " | " | U |
| Methyl tert-Butyl Ether | ND | 4.00 | " | " | " | DPM | " | " | U |
| Methylene Chloride | ND | 4.00 | " | " | " | DPM | " | " | U |
| Naphthalene | ND | 12.0 | " | " | " | DPM | " | " | U |
| o-Xylene | ND | 4.00 | " | " | " | DPM | " | " | U |
| Styrene | ND | 8.00 | " | " | " | DPM | " | " | U |
| Tetrachloroethene | ND | 4.00 | " | " | " | DPM | " | " | U |
| Tetrahydrofuran | ND | 4.00 | " | " | " | DPM | " | " | U |
| Toluene | 159 | 8.00 | " | " | " | DPM | " | " | |
| trans-1,2-Dichloroethene | ND | 4.00 | " | " | " | DPM | " | " | U |
| trans-1,3-Dichloropropene | ND | 4.00 | " | " | " | DPM | " | " | U |
| Trichloroethene | ND | 4.00 | " | " | " | DPM | " | " | U |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab NW01

4/18/2019 2:12:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-03 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|----------------------------------|--------|--------|-----------|-----|---------|-----|------------|------------|-----|
| Vinyl acetate | ND | 4.00 | ug/m³ Air | 4 | B9D1805 | DPM | 04/18/2019 | 04/19/2019 | U |
| Vinyl chloride | ND | 4.00 | " | " | " | DPM | " | " | U |
| Gasoline Range Hydrocarbons | 158000 | 50000 | " | 250 | " | DPM | " | 04/18/2019 | |
| Surrogate: 1,2-Dichloroethane-d4 | 269 % | 70-130 | | | " | " | | 04/19/2019 | 104 |
| Surrogate: Toluene-d8 | 122 % | 70-130 | | | " | " | | " | |
| Surrogate: 4-Bromofluorobenzene | 99.4 % | 70-130 | | | " | " | | " | |

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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab SW01

4/18/2019 1:35:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-05 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|---------------------------|----|------|-----------------------|----|---------|-----|------------|------------|---|
| 1,1,1-Trichloroethane | ND | 25.0 | ug/m ³ Air | 25 | B9D1805 | DPM | 04/18/2019 | 04/19/2019 | U |
| 1,1,2,2-Tetrachloroethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,1,2-Trichloroethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,1-Dichloroethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,1-Dichloroethene | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,2,4-Trichlorobenzene | ND | 125 | " | " | " | DPM | " | " | U |
| 1,2,4-Trimethylbenzene | ND | 50.0 | " | " | " | DPM | " | " | U |
| 1,2-Dichlorobenzene | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,2-Dichloroethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,2-Dichloropropane | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,2-Dibromoethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,3,5-Trimethylbenzene | ND | 50.0 | " | " | " | DPM | " | " | U |
| 1,3 Butadiene | ND | 22.0 | " | " | " | DPM | " | " | U |
| 1,3-Dichlorobenzene | ND | 25.0 | " | " | " | DPM | " | " | U |
| 1,4-Dichlorobenzene | ND | 25.0 | " | " | " | DPM | " | " | U |
| 4-Ethyltoluene | ND | 50.0 | " | " | " | DPM | " | " | U |
| Acetone | ND | 50.0 | " | " | " | DPM | " | " | U |
| Benzene | ND | 12.5 | " | " | " | DPM | " | " | U |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab SW01

4/18/2019 1:35:00PM

| Analyte | Result | Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-05 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|-------------------------|----|------|-----------------------|----|---------|-----|------------|------------|---|
| Benzyl chloride | ND | 25.0 | ug/m ³ Air | 25 | B9D1805 | DPM | 04/18/2019 | 04/19/2019 | U |
| Bromodichloromethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| Bromoform | ND | 25.0 | " | " | " | DPM | " | " | U |
| 2-Hexanone | ND | 50.0 | " | " | " | DPM | " | " | U |
| Bromomethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| Carbon disulfide | ND | 25.0 | " | " | " | DPM | " | " | U |
| Carbon Tetrachloride | ND | 25.0 | " | " | " | DPM | " | " | U |
| 4-Methyl-2-pentanone | ND | 25.0 | " | " | " | DPM | " | " | U |
| Chlorobenzene | ND | 25.0 | " | " | " | DPM | " | " | U |
| Chloroethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| Chloroform | ND | 25.0 | " | " | " | DPM | " | " | U |
| Chloromethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| cis-1,2-Dichloroethene | ND | 25.0 | " | " | " | DPM | " | " | U |
| cis-1,3-Dichloropropene | ND | 25.0 | " | " | " | DPM | " | " | U |
| Dibromochloromethane | ND | 25.0 | " | " | " | DPM | " | " | U |
| Ethanol | ND | 25.0 | " | " | " | DPM | " | " | U |
| Ethylbenzene | ND | 25.0 | " | " | " | DPM | " | " | U |
| Freon 113 | ND | 25.0 | " | " | " | DPM | " | " | U |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab SW01

4/18/2019 1:35:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-05 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|---------------------------|------|------|-----------|-----|---------|-----|------------|------------|---|
| Freon 11 | ND | 25.0 | ug/m³ Air | 25 | B9D1805 | DPM | 04/18/2019 | 04/19/2019 | U |
| Freon 12 | ND | 25.0 | " | " | " | DPM | " | " | U |
| Freon 114 | ND | 25.0 | " | " | " | DPM | " | " | U |
| Heptane | ND | 50.0 | " | " | " | DPM | " | " | U |
| Hexane | 6060 | 250 | " | 250 | " | DPM | " | 04/18/2019 | |
| Hexachlorobutadiene | ND | 62.5 | " | 25 | " | DPM | " | 04/19/2019 | U |
| m,p-Xylene | ND | 50.0 | " | " | " | DPM | " | " | U |
| Methyl tert-Butyl Ether | ND | 25.0 | " | " | " | DPM | " | " | U |
| Methylene Chloride | ND | 25.0 | " | " | " | DPM | " | " | U |
| Naphthalene | ND | 75.0 | " | " | " | DPM | " | " | U |
| o-Xylene | ND | 25.0 | " | " | " | DPM | " | " | U |
| Styrene | ND | 50.0 | " | " | " | DPM | " | " | U |
| Tetrachloroethene | ND | 25.0 | " | " | " | DPM | " | " | U |
| Tetrahydrofuran | ND | 25.0 | " | " | " | DPM | " | " | U |
| Toluene | 721 | 50.0 | " | " | " | DPM | " | " | |
| trans-1,2-Dichloroethene | ND | 25.0 | " | " | " | DPM | " | " | U |
| trans-1,3-Dichloropropene | ND | 25.0 | " | " | " | DPM | " | " | U |
| Trichloroethene | ND | 25.0 | " | " | " | DPM | " | " | U |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Sub-Slab SW01

4/18/2019 1:35:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y904328-05 (Air)

VOCs by TO-15

| | | | | | | | | | T |
|----------------------------------|----------|---------|-----------------------|-------|---------|-----|------------|------------|------|
| Vinyl acetate | ND | 25.0 | ug/m ³ Air | 25 | B9D1805 | DPM | 04/18/2019 | 04/19/2019 | U |
| Vinyl chloride | ND | 25.0 | " | " | " | DPM | " | " | U |
| Gasoline Range Hydrocarbons | 58700000 | 5000000 | " | 25000 | " | DPM | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | 238 % | 70-130 | | | " | " | " | " | S-04 |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 96.1 % | 70-130 | | | " | " | " | " | |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by TO-15 in Air - Quality Control Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B9D1805 - Default Prep - Air

Blank (B9D1805-BLK1)

Prepared: 04/18/2019 Analyzed: 04/18/2019

T

| | | | | | | | | | | |
|---------------------------|----|-------|-----------------------|--|--|--|--|--|--|---|
| 1,1,1-Trichloroethane | ND | 1.00 | ug/m ³ Air | | | | | | | U |
| 1,1,2,2-Tetrachloroethane | ND | 1.00 | " | | | | | | | U |
| 1,1,2-Trichloroethane | ND | 1.00 | " | | | | | | | U |
| 1,1-Dichloroethane | ND | 1.00 | " | | | | | | | U |
| 1,1-Dichloroethene | ND | 1.00 | " | | | | | | | U |
| 1,2,4-Trichlorobenzene | ND | 5.00 | " | | | | | | | U |
| 1,2,4-Trimethylbenzene | ND | 2.00 | " | | | | | | | U |
| 1,2-Dichlorobenzene | ND | 1.00 | " | | | | | | | U |
| 1,2-Dichloroethane | ND | 1.00 | " | | | | | | | U |
| 1,2-Dichloropropane | ND | 1.00 | " | | | | | | | U |
| 1,2-Dibromoethane | ND | 1.00 | " | | | | | | | U |
| 1,3,5-Trimethylbenzene | ND | 2.00 | " | | | | | | | U |
| 1,3 Butadiene | ND | 0.880 | " | | | | | | | U |
| 1,3-Dichlorobenzene | ND | 1.00 | " | | | | | | | U |
| 1,4-Dichlorobenzene | ND | 1.00 | " | | | | | | | U |
| 4-Ethyltoluene | ND | 2.00 | " | | | | | | | U |
| Acetone | ND | 2.00 | " | | | | | | | U |
| Benzene | ND | 0.500 | " | | | | | | | U |
| Benzyl chloride | ND | 1.00 | " | | | | | | | U |
| Bromodichloromethane | ND | 1.00 | " | | | | | | | U |
| Bromoform | ND | 1.00 | " | | | | | | | U |
| Bromomethane | ND | 1.00 | " | | | | | | | U |
| 2-Hexanone | ND | 2.00 | " | | | | | | | U |
| Carbon disulfide | ND | 1.00 | " | | | | | | | U |
| Carbon Tetrachloride | ND | 1.00 | " | | | | | | | U |
| Chlorobenzene | ND | 1.00 | " | | | | | | | U |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by TO-15 in Air - Quality Control

Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-----------------------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B9D1805 - Default Prep - Air | | | | | | | | | | |
| Blank (B9D1805-BLK1) | | | | | Prepared: 04/18/2019 Analyzed: 04/18/2019 | | | | | T |
| 4-Methyl-2-pentanone | ND | 1.00 | ug/m ³ Air | | | | | | | U |
| Chloroethane | ND | 1.00 | " | | | | | | | U |
| Chloroform | ND | 1.00 | " | | | | | | | U |
| Chloromethane | ND | 1.00 | " | | | | | | | U |
| cis-1,2-Dichloroethene | ND | 1.00 | " | | | | | | | U |
| cis-1,3-Dichloropropene | ND | 1.00 | " | | | | | | | U |
| Dibromochloromethane | ND | 1.00 | " | | | | | | | U |
| Ethanol | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Freon 113 | ND | 1.00 | " | | | | | | | U |
| Freon 11 | ND | 1.00 | " | | | | | | | U |
| Freon 12 | ND | 1.00 | " | | | | | | | U |
| Freon 114 | ND | 1.00 | " | | | | | | | U |
| Heptane | 5.08 | 2.00 | " | | | | | | | |
| Hexane | ND | 1.00 | " | | | | | | | U |
| Hexachlorobutadiene | ND | 2.50 | " | | | | | | | U |
| m,p-Xylene | ND | 2.00 | " | | | | | | | U |
| Methyl tert-Butyl Ether | ND | 1.00 | " | | | | | | | U |
| Methylene Chloride | ND | 1.00 | " | | | | | | | U |
| Naphthalene | ND | 3.00 | " | | | | | | | U |
| o-Xylene | ND | 1.00 | " | | | | | | | U |
| Styrene | ND | 2.00 | " | | | | | | | U |
| Tetrachloroethene | ND | 1.00 | " | | | | | | | U |
| Tetrahydrofuran | ND | 1.00 | " | | | | | | | U |
| Toluene | ND | 2.00 | " | | | | | | | U |
| trans-1,2-Dichloroethene | ND | 1.00 | " | | | | | | | U |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by TO-15 in Air - Quality Control Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B9D1805 - Default Prep - Air

| | | | | | | | | | | |
|----------------------------------|------|------|-----------------------|------|---|-----|--------|--|--|---|
| Blank (B9D1805-BLK1) | | | | | Prepared: 04/18/2019 Analyzed: 04/18/2019 | | | | | T |
| trans-1,3-Dichloropropene | ND | 1.00 | ug/m ³ Air | | | | | | | U |
| Trichloroethene | ND | 1.00 | " | | | | | | | U |
| Vinyl acetate | ND | 1.00 | " | | | | | | | U |
| Vinyl chloride | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 12.3 | | ppbv | 10.0 | | 123 | 70-130 | | | |
| Surrogate: Toluene-d8 | 10.6 | | " | 10.0 | | 106 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 11.3 | | " | 10.0 | | 113 | 70-130 | | | |

LCS (B9D1805-BS1)

Prepared: 04/18/2019 Analyzed: 04/18/2019

T

| | | | | | | | |
|---------------------------|------|-------|-----------------------|------|--|-----|--------|
| 1,1,1-Trichloroethane | 58.2 | 1.00 | ug/m ³ Air | 54.6 | | 107 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 88.0 | 1.00 | " | 68.7 | | 128 | 70-130 |
| 1,1,2-Trichloroethane | 55.8 | 1.00 | " | 54.6 | | 102 | 70-130 |
| 1,1-Dichloroethane | 44.7 | 1.00 | " | 40.5 | | 110 | 70-130 |
| 1,1-Dichloroethene | 45.4 | 1.00 | " | 39.6 | | 115 | 70-130 |
| 1,2,4-Trichlorobenzene | 78.0 | 5.00 | " | 74.2 | | 105 | 70-130 |
| 1,2,4-Trimethylbenzene | 52.6 | 2.00 | " | 49.2 | | 107 | 70-125 |
| 1,2-Dichlorobenzene | 66.0 | 1.00 | " | 60.1 | | 110 | 70-130 |
| 1,2-Dichloroethane | 45.1 | 1.00 | " | 40.5 | | 112 | 70-130 |
| 1,2-Dichloropropane | 48.6 | 1.00 | " | 46.2 | | 105 | 70-130 |
| 1,2-Dibromoethane | 83.1 | 1.00 | " | 76.8 | | 108 | 70-130 |
| 1,3,5-Trimethylbenzene | 53.4 | 2.00 | " | 49.2 | | 109 | 71-130 |
| 1,3 Butadiene | 24.8 | 0.880 | " | 22.1 | | 112 | 70-130 |
| 1,3-Dichlorobenzene | 75.3 | 1.00 | " | 60.1 | | 125 | 70-130 |
| 1,4-Dichlorobenzene | 64.6 | 1.00 | " | 60.1 | | 108 | 70-130 |
| 4-Ethyltoluene | 57.6 | 2.00 | " | 49.2 | | 117 | 70-130 |
| Acetone | 27.5 | 2.00 | " | 23.8 | | 116 | 70-130 |
| Benzene | 32.6 | 0.500 | " | 31.9 | | 102 | 70-130 |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by TO-15 in Air - Quality Control

Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B9D1805 - Default Prep - Air

LCS (B9D1805-BS1)

Prepared: 04/18/2019 Analyzed: 04/18/2019

T

| | | | | | | | | | | |
|-------------------------|------|------|-----------------------|------|--|-----|--------|--|--|------|
| Benzyl chloride | 58.8 | 1.00 | ug/m ³ Air | 51.8 | | 114 | 70-130 | | | |
| Bromodichloromethane | 72.1 | 1.00 | " | 67.0 | | 108 | 70-130 | | | |
| Bromoform | 118 | 1.00 | " | 103 | | 114 | 70-130 | | | |
| 2-Hexanone | 47.7 | 2.00 | " | 41.0 | | 116 | 72-118 | | | |
| Bromomethane | 47.2 | 1.00 | " | 38.8 | | 122 | 70-130 | | | |
| Carbon disulfide | 35.0 | 1.00 | " | 31.1 | | 112 | 70-130 | | | |
| Carbon Tetrachloride | 64.1 | 1.00 | " | 62.9 | | 102 | 70-130 | | | |
| 4-Methyl-2-pentanone | 45.3 | 1.00 | " | 41.0 | | 111 | 61-120 | | | |
| Chlorobenzene | 47.6 | 1.00 | " | 46.0 | | 103 | 70-130 | | | |
| Chloroethane | 30.7 | 1.00 | " | 26.4 | | 116 | 70-130 | | | |
| Chloroform | 53.2 | 1.00 | " | 48.8 | | 109 | 70-130 | | | |
| Chloromethane | 25.1 | 1.00 | " | 20.7 | | 122 | 72-130 | | | |
| cis-1,2-Dichloroethene | 44.8 | 1.00 | " | 39.6 | | 113 | 70-130 | | | |
| cis-1,3-Dichloropropene | 50.5 | 1.00 | " | 45.4 | | 111 | 70-130 | | | |
| Dibromochloromethane | 90.0 | 1.00 | " | 85.2 | | 106 | 70-130 | | | |
| Ethanol | 23.7 | 1.00 | " | 18.8 | | 126 | 60-140 | | | |
| Ethylbenzene | 47.7 | 1.00 | " | 43.4 | | 110 | 70-130 | | | |
| Freon 113 | 83.0 | 1.00 | " | 76.6 | | 108 | 70-130 | | | |
| Freon 11 | 62.4 | 1.00 | " | 56.2 | | 111 | 70-130 | | | |
| Freon 12 | 54.0 | 1.00 | " | 49.5 | | 109 | 70-130 | | | |
| Freon 114 | 78.9 | 1.00 | " | 69.9 | | 113 | 70-130 | | | |
| Heptane | 54.5 | 2.00 | " | 41.0 | | 133 | 70-130 | | | J-02 |
| Hexane | 36.8 | 1.00 | " | 35.2 | | 104 | 70-130 | | | |
| Hexachlorobutadiene | 124 | 2.50 | " | 107 | | 116 | 70-130 | | | |
| m,p-Xylene | 187 | 2.00 | " | 174 | | 107 | 70-130 | | | |
| Methyl tert-Butyl Ether | 39.2 | 1.00 | " | 36.1 | | 109 | 70-130 | | | |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by TO-15 in Air - Quality Control Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B9D1805 - Default Prep - Air

| LCS (B9D1805-BS1) | | | | | | Prepared: 04/18/2019 Analyzed: 04/18/2019 | | | | T |
|----------------------------------|------|------|-----------------------|------|--|---|--------|--|--|---|
| Methylene Chloride | 44.5 | 1.00 | ug/m ³ Air | 34.7 | | 128 | 70-130 | | | |
| Naphthalene | 55.2 | 3.00 | " | 52.4 | | 105 | 70-130 | | | |
| o-Xylene | 49.1 | 1.00 | " | 43.4 | | 113 | 70-130 | | | |
| Styrene | 45.1 | 2.00 | " | 42.6 | | 106 | 70-130 | | | |
| Tetrachloroethene | 73.3 | 1.00 | " | 67.8 | | 108 | 70-130 | | | |
| Tetrahydrofuran | 32.1 | 1.00 | " | 29.5 | | 109 | 70-130 | | | |
| Toluene | 47.8 | 2.00 | " | 37.7 | | 127 | 70-130 | | | |
| trans-1,2-Dichloroethene | 46.3 | 1.00 | " | 39.6 | | 117 | 70-130 | | | |
| trans-1,3-Dichloropropene | 51.7 | 1.00 | " | 45.4 | | 114 | 70-130 | | | |
| Trichloroethene | 56.4 | 1.00 | " | 53.7 | | 105 | 70-130 | | | |
| Vinyl acetate | 40.4 | 1.00 | " | 35.2 | | 115 | 70-130 | | | |
| Vinyl chloride | 28.4 | 1.00 | " | 25.6 | | 111 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 11.1 | | ppbv | 10.0 | | 111 | 70-130 | | | |
| Surrogate: Toluene-d8 | 9.76 | | " | 10.0 | | 97.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 12.0 | | " | 10.0 | | 120 | 70-130 | | | |

| LCS Dup (B9D1805-BS1) | | | | | | Prepared: 04/18/2019 Analyzed: 04/18/2019 | | | | T |
|---------------------------|------|------|-----------------------|------|--|---|--------|-------|----|------|
| 1,1,1-Trichloroethane | 60.8 | 1.00 | ug/m ³ Air | 54.6 | | 112 | 70-130 | 4.49 | 25 | |
| 1,1,2,2-Tetrachloroethane | 89.4 | 1.00 | " | 68.7 | | 130 | 70-130 | 1.55 | 25 | |
| 1,1,2-Trichloroethane | 56.6 | 1.00 | " | 54.6 | | 104 | 70-130 | 1.36 | 25 | |
| 1,1-Dichloroethane | 44.8 | 1.00 | " | 40.5 | | 111 | 70-130 | 0.271 | 25 | |
| 1,1-Dichloroethene | 47.3 | 1.00 | " | 39.6 | | 119 | 70-130 | 4.10 | 25 | |
| 1,2,4-Trichlorobenzene | 79.6 | 5.00 | " | 74.2 | | 107 | 70-130 | 2.07 | 25 | |
| 1,2,4-Trimethylbenzene | 65.5 | 2.00 | " | 49.2 | | 133 | 70-125 | 22.0 | 25 | J-02 |
| 1,2-Dichlorobenzene | 69.4 | 1.00 | " | 60.1 | | 116 | 70-130 | 5.06 | 25 | |
| 1,2-Dichloroethane | 45.3 | 1.00 | " | 40.5 | | 112 | 70-130 | 0.447 | 25 | |
| 1,2-Dichloropropane | 50.6 | 1.00 | " | 46.2 | | 109 | 70-130 | 4.01 | 25 | |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by TO-15 in Air - Quality Control

Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-----------------------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B9D1805 - Default Prep - Air | | | | | | | | | | |
| LCS Dup (B9D1805-BSD1) | | | | | Prepared: 04/18/2019 Analyzed: 04/18/2019 | | | | | T |
| 1,2-Dibromoethane | 83.7 | 1.00 | ug/m ³ Air | 76.8 | | 109 | 70-130 | 0.737 | 25 | |
| 1,3,5-Trimethylbenzene | 62.5 | 2.00 | " | 49.2 | | 127 | 71-130 | 15.7 | 25 | |
| 1,3 Butadiene | 23.3 | 0.880 | " | 22.1 | | 106 | 70-130 | 5.89 | 25 | |
| 1,3-Dichlorobenzene | 81.7 | 1.00 | " | 60.1 | | 136 | 70-130 | 8.12 | 25 | J-02 |
| 1,4-Dichlorobenzene | 63.7 | 1.00 | " | 60.1 | | 106 | 70-130 | 1.41 | 25 | |
| 4-Ethyltoluene | 53.9 | 2.00 | " | 49.2 | | 110 | 70-130 | 6.53 | 25 | |
| Acetone | 27.0 | 2.00 | " | 23.8 | | 114 | 70-130 | 1.92 | 25 | |
| Benzene | 34.3 | 0.500 | " | 31.9 | | 107 | 70-130 | 4.97 | 25 | |
| Benzyl chloride | 64.3 | 1.00 | " | 51.8 | | 124 | 70-130 | 8.83 | 25 | |
| Bromodichloromethane | 74.4 | 1.00 | " | 67.0 | | 111 | 70-130 | 3.20 | 25 | |
| Bromoform | 121 | 1.00 | " | 103 | | 117 | 70-130 | 2.25 | 25 | |
| 2-Hexanone | 49.8 | 2.00 | " | 41.0 | | 122 | 72-118 | 4.20 | 25 | J-02 |
| Bromomethane | 47.3 | 1.00 | " | 38.8 | | 122 | 70-130 | 0.246 | 25 | |
| Carbon disulfide | 35.2 | 1.00 | " | 31.1 | | 113 | 70-130 | 0.532 | 25 | |
| Carbon Tetrachloride | 65.7 | 1.00 | " | 62.9 | | 104 | 70-130 | 2.52 | 25 | |
| 4-Methyl-2-pentanone | 47.4 | 1.00 | " | 41.0 | | 116 | 61-120 | 4.42 | 25 | |
| Chlorobenzene | 50.2 | 1.00 | " | 46.0 | | 109 | 70-130 | 5.37 | 25 | |
| Chloroethane | 33.1 | 1.00 | " | 26.4 | | 126 | 70-130 | 7.69 | 25 | |
| Chloroform | 54.2 | 1.00 | " | 48.8 | | 111 | 70-130 | 2.00 | 25 | |
| Chloromethane | 20.3 | 1.00 | " | 20.7 | | 98.1 | 72-130 | 21.3 | 25 | |
| cis-1,2-Dichloroethene | 45.1 | 1.00 | " | 39.6 | | 114 | 70-130 | 0.529 | 25 | |
| cis-1,3-Dichloropropene | 51.3 | 1.00 | " | 45.4 | | 113 | 70-130 | 1.52 | 25 | |
| Dibromochloromethane | 91.7 | 1.00 | " | 85.2 | | 108 | 70-130 | 1.88 | 25 | |
| Ethanol | 20.2 | 1.00 | " | 18.8 | | 107 | 60-140 | 15.9 | 25 | |
| Ethylbenzene | 50.0 | 1.00 | " | 43.4 | | 115 | 70-130 | 4.71 | 25 | |
| Freon 113 | 85.9 | 1.00 | " | 76.6 | | 112 | 70-130 | 3.45 | 25 | |

Origins Laboratory, Inc.



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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Brian Humphrey
Project Number: [none]
Project: DCP - CR42 & CR13

Volatile Organic Compounds by TO-15 in Air - Quality Control

Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-----------------------|-------------|---|------|-------------|--------|-----------|-------|
| Batch B9D1805 - Default Prep - Air | | | | | | | | | | |
| LCS Dup (B9D1805-BSD1) | | | | | Prepared: 04/18/2019 Analyzed: 04/18/2019 | | | | | T |
| Freon 11 | 62.0 | 1.00 | ug/m ³ Air | 56.2 | | 110 | 70-130 | 0.632 | 25 | |
| Freon 12 | 55.7 | 1.00 | " | 49.5 | | 113 | 70-130 | 3.25 | 25 | |
| Freon 114 | 75.1 | 1.00 | " | 69.9 | | 108 | 70-130 | 4.90 | 25 | |
| Heptane | 54.6 | 2.00 | " | 41.0 | | 133 | 70-130 | 0.225 | 25 | J-02 |
| Hexane | 35.8 | 1.00 | " | 35.2 | | 102 | 70-130 | 2.72 | 25 | |
| Hexachlorobutadiene | 124 | 2.50 | " | 107 | | 117 | 70-130 | 0.430 | 25 | |
| m,p-Xylene | 205 | 2.00 | " | 174 | | 118 | 70-130 | 9.32 | 25 | |
| Methyl tert-Butyl Ether | 40.9 | 1.00 | " | 36.1 | | 113 | 70-130 | 4.32 | 25 | |
| Methylene Chloride | 45.2 | 1.00 | " | 34.7 | | 130 | 70-130 | 1.47 | 25 | |
| Naphthalene | 56.7 | 3.00 | " | 52.4 | | 108 | 70-130 | 2.62 | 25 | |
| o-Xylene | 55.2 | 1.00 | " | 43.4 | | 127 | 70-130 | 11.7 | 25 | |
| Styrene | 50.8 | 2.00 | " | 42.6 | | 119 | 70-130 | 11.8 | 25 | |
| Tetrachloroethene | 76.2 | 1.00 | " | 67.8 | | 112 | 70-130 | 3.81 | 25 | |
| Tetrahydrofuran | 31.3 | 1.00 | " | 29.5 | | 106 | 70-130 | 2.60 | 25 | |
| Toluene | 45.4 | 2.00 | " | 37.7 | | 120 | 70-130 | 5.26 | 25 | |
| trans-1,2-Dichloroethene | 46.4 | 1.00 | " | 39.6 | | 117 | 70-130 | 0.171 | 25 | |
| trans-1,3-Dichloropropene | 52.8 | 1.00 | " | 45.4 | | 116 | 70-130 | 2.00 | 25 | |
| Trichloroethene | 58.8 | 1.00 | " | 53.7 | | 110 | 70-130 | 4.20 | 25 | |
| Vinyl acetate | 41.1 | 1.00 | " | 35.2 | | 117 | 70-130 | 1.73 | 25 | |
| Vinyl chloride | 28.4 | 1.00 | " | 25.6 | | 111 | 70-130 | 0.0900 | 25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 10.9 | | ppbv | 10.0 | | 109 | 70-130 | | | |
| Surrogate: Toluene-d8 | 9.64 | | " | 10.0 | | 96.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 11.6 | | " | 10.0 | | 116 | 70-130 | | | |

Origins Laboratory, Inc.



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Tasman Geosciences

6899 Pecos Street, Unit C

Denver CO 80211

Brian Humphrey

Project Number: [none]

Project: DCP - CR42 & CR13

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J-02 Reported value failed to meet established quality control criteria for the precision accuracy.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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4/22/2019

Ms. Jennifer Pellegrini
Origins Laboratory
1725 Elk Place

Denver CO 80211

Project Name:
Project #: Y904328
Workorder #: 1904431

Dear Ms. Jennifer Pellegrini

The following report includes the data for the above referenced project for sample(s) received on 4/19/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1945 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker
Project Manager

WORK ORDER #: 1904431

Work Order Summary

CLIENT: Ms. Jennifer Pellegrini
Origins Laboratory
1725 Elk Place
Denver, CO 80211

BILL TO: Ms. Jennifer Pellegrini
Origins Laboratory
1725 Elk Place
Denver, CO 80211

PHONE: 303-433-1322

P.O. #

FAX:

PROJECT # Y904328

DATE RECEIVED: 04/19/2019

CONTACT: Brian Whittaker

DATE COMPLETED: 04/22/2019

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------------|-------------------------------|---------------------------|
| 01A | Y904328-02 | Modified ASTM D-1945 | 0.5 "Hg | 5 psi |
| 02A | Y904328-04 | Modified ASTM D-1945 | 0.5 "Hg | 5 psi |
| 03A | Y904328-06 | Modified ASTM D-1945 | 0.5 "Hg | 14 psi |
| 04A | Lab Blank | Modified ASTM D-1945 | NA | NA |
| 05A | LCS | Modified ASTM D-1945 | NA | NA |
| 05AA | LCSD | Modified ASTM D-1945 | NA | NA |

CERTIFIED BY:



Technical Director

DATE: 04/22/19

Certification numbers: AZ Licensure AZ0775, FL NELAP - E8 , LA NELAP - 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP CA009332018-10, VA NELAP - 9505, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.

Eurofins Air Toxics LLC. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1945
Origins Laboratory
Workorder# 1904431

Three Client Canister samples were received on April 19, 2019. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>ASTM D-1945</i> | <i>ATL Modifications</i> |
|-------------------------|--|---|
| Normalization | Sum of original values should not differ from 100.0% by more than 1.0%. | Sum of original values may range between 85-115%. Normalization of data not performed. |
| Sample analysis | Equilibrate samples to 20-50° F. above source temperature at field sampling | No heating of samples is performed. |
| Sample calculation | Response factor is calculated using peak height for C5 and lighter compounds. | Peak areas are used for all target analytes to quantitate concentrations. |
| Reference Standard | Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%. | A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor with an acceptance criterion of %RSD <= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+) |
| Sample Injection Volume | 0.50 mL to achieve Methane linearity. | 1.0 mL. |

Receiving Notes

The Chain of Custody (COC) information for samples Y904328-02, Y904328-04, and Y904328-06 did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

Due to laboratory error, the final field vacuum measurement of 0.5"Hg was used as the laboratory's initial receipt measurement for sample Y904328-06. The dilution factor was therefore calculated using the measurements of 0.5"Hg and 14psi.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: Y904328-02

Lab ID#: 1904431-01A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|---------------------------|-----------------------|
| Methane | 0.00014 | 0.18 |
| Propane | 0.0014 | 0.33 |

Client Sample ID: Y904328-04

Lab ID#: 1904431-02A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|---------------------------|-----------------------|
| Methane | 0.00014 | 0.22 |
| Propane | 0.0014 | 0.11 |

Client Sample ID: Y904328-06

Lab ID#: 1904431-03A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|---------------------------|-----------------------|
| Methane | 0.00020 | 4.2 |
| Propane | 0.0020 | 2.2 |



Air Toxics

Client Sample ID: Y904328-02

Lab ID#: 1904431-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

| | | |
|--------------|----------|--|
| File Name: | 10042010 | Date of Collection: 4/18/19 3:08:00 PM |
| Dil. Factor: | 1.36 | Date of Analysis: 4/19/19 07:29 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|-------------------|---------------|
| Methane | 0.00014 | 0.18 |
| Propane | 0.0014 | 0.33 |

Container Type: Client Canister



Air Toxics

Client Sample ID: Y904328-04

Lab ID#: 1904431-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

| | | |
|--------------|----------|--|
| File Name: | 10042011 | Date of Collection: 4/18/19 1:57:00 PM |
| Dil. Factor: | 1.36 | Date of Analysis: 4/19/19 07:54 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|-------------------|---------------|
| Methane | 0.00014 | 0.22 |
| Propane | 0.0014 | 0.11 |

Container Type: Client Canister

Client Sample ID: Y904328-06

Lab ID#: 1904431-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

| | | |
|--------------|----------|--|
| File Name: | 10042012 | Date of Collection: 4/18/19 2:10:00 PM |
| Dil. Factor: | 1.98 | Date of Analysis: 4/19/19 08:22 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|-------------------|---------------|
| Methane | 0.00020 | 4.2 |
| Propane | 0.0020 | 2.2 |

Container Type: Client Canister



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1904431-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: 10042005
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 4/19/19 03:36 PM

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|-------------------|---------------|
| Methane | 0.00010 | Not Detected |
| Propane | 0.0010 | Not Detected |

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1904431-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

| | |
|--------------|----------|
| File Name: | 10042003 |
| Dil. Factor: | 1.00 |

| |
|------------------------------------|
| Date of Collection: NA |
| Date of Analysis: 4/19/19 02:36 PM |

| Compound | %Recovery | Method Limits |
|----------|-----------|---------------|
| Methane | 100 | 85-115 |
| Propane | 100 | 85-115 |

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1904431-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: 10042026
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 4/20/19 12:16 PM

| Compound | %Recovery | Method Limits |
|----------|-----------|---------------|
| Methane | 102 | 85-115 |
| Propane | 101 | 85-115 |

Container Type: NA - Not Applicable