

Attachment A

Laboratory Analytical Report



August 19, 2019

Apex Companies, LLC

Maggie Graham

4150 Darley Avenue, Suite 1

Boulder CO 80305

Project Name - KMG - Babcock 19N-33HZ

Project Number - [none]

Attached are your analytical results for KMG - Babcock 19N-33HZ received by Origins Laboratory, Inc. August 12, 2019. This project is associated with Origins project number Y908185-01.

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

Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------------|------------------|
| B01@1.5' | Y908185-01 | Soil | August 12, 2019 16:03 | 08/12/2019 17:30 |
| B02@1.5' | Y908185-02 | Soil | August 12, 2019 16:05 | 08/12/2019 17:30 |
| B03@1.5' | Y908185-03 | Soil | August 12, 2019 16:08 | 08/12/2019 17:30 |

Origins Laboratory, Inc.



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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

www.originslaboratory.com

7908185

ORIGINS
LABORATORY, INC

Client: Apex Companies
Address: 1746 Cole Blvd, Lakewood, CO 80401
Telephone Number: 720-501-5065
Email Address: Maggie.Graham@apexcos.com

Project Manager: Maggie Graham
Project Name: Babcock 19N-33HZ
Project Number: WO# 7BD Greg Hamilton
Samples Collected By: Ryan Finley
Bill to Anadarko

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

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|------------|----------|---------------------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summ # | | |
| B01 @ 1.5 | 8/12/19 | 1603 | 2 | X | | | | | X | | XX XX | 1 |
| B02 @ 1.5 | | 1605 | 2 | | | | | | | | XX XX | 2 |
| B03 @ 1.5 | | 1608 | 2 | | | | | | | | XX XX | 3 |
| BKGD @ 0.5 | | 1610 | 1 | | | | | | | | | 4 |
| | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | 10 |

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Relinquished By: [Signature] Date: 8/12/19 Time: 1630
Relinquished By: [Signature] Date: 8/12/19 Time: 1730

Next day, 7am

Date Results Needed

11.9

Origins Laboratory, Inc.

Jefe Pellegrini

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y908185 Client: Apex
Client Project ID: Babcock 19N-33HE
Checklist Completed by: JG Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 8/12/2019 Airbill #: N/A
Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)
Cooler Number/Temperature: 1 / 11.9 °C _____ / _____ °C _____ / _____ °C
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>Same Day</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"/> | <u>37</u> | | |
| 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 (> ¼ 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 NaAsO ₂ +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)

Date/Time Reviewed 8/12/19

Origins Laboratory, Inc.

Jefe Pellegrini

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

B01@1.5'
8/12/2019 4:03:00PM

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

Origins Laboratory, Inc.
Y908185-01 (Soil)

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B9H1210 | KDK | 08/12/2019 | 08/12/2019 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | KDK | " | " | U |

Surrogate: o-Terphenyl 76.7 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|-----------------------------|------|-------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 5.83 | 5.00 | mg/kg | 25 | B9H1216 | KDK | 08/12/2019 | 08/12/2019 | |
| Benzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | KDK | " | " | U |

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
Surrogate: Toluene-d8 99.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 96.5 % 70-130 " " "

Metals (Saturated Paste Prep)

| | | | | | | | | | |
|-----------|------|--|------|---|--------|--|------------|------------|--|
| Calcium | 4.80 | | me/L | 1 | [none] | | 08/14/2019 | 08/16/2019 | |
| Magnesium | 2.43 | | " | " | " | | " | " | |
| Sodium | 1.45 | | " | " | " | | " | " | |

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Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

B01@1.5'
8/12/2019 4:03:00PM

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

Origins Laboratory, Inc.
Y908185-01 (Soil)

pH in Soil by EPA 9045D

| | | | | | | | |
|----|------|----------|---|---------|------|------------|------------|
| pH | 8.06 | pH Units | 1 | B9H1207 | OLAB | 08/12/2019 | 08/12/2019 |
|----|------|----------|---|---------|------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--|---|--------|--|------------|------------|
| SAR | 0.76 | | 1 | [none] | | 08/14/2019 | 08/16/2019 |
|-----|------|--|---|--------|--|------------|------------|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 0.0442 | 0.00500 | mmhos/cm | 1 | B9H1211 | DJL | 08/12/2019 | 08/12/2019 |
|---------------------------|--------|---------|----------|---|---------|-----|------------|------------|

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

B02@1.5'
8/12/2019 4:05:00PM

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

Origins Laboratory, Inc.
Y908185-02 (Soil)

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B9H1210 | KDK | 08/12/2019 | 08/13/2019 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | KDK | " | " | U |

Surrogate: o-Terphenyl 75.8 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9H1216 | KDK | 08/12/2019 | 08/12/2019 | U |
| Benzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | KDK | " | " | U |

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
Surrogate: Toluene-d8 98.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.2 % 70-130 " " "

Metals (Saturated Paste Prep)

| | | | | | | | |
|-----------|------|------|---|--------|--|------------|------------|
| Calcium | 2.45 | me/L | 1 | [none] | | 08/14/2019 | 08/16/2019 |
| Magnesium | 1.75 | " | " | " | | " | " |
| Sodium | 0.53 | " | " | " | | " | " |

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

B02@1.5'

8/12/2019 4:05:00PM

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

Origins Laboratory, Inc.
Y908185-02 (Soil)

pH in Soil by EPA 9045D

| | | | | | | | |
|----|------|----------|---|---------|------|------------|------------|
| pH | 8.07 | pH Units | 1 | B9H1207 | OLAB | 08/12/2019 | 08/12/2019 |
|----|------|----------|---|---------|------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--|---|--------|--|------------|------------|
| SAR | 0.37 | | 1 | [none] | | 08/14/2019 | 08/16/2019 |
|-----|------|--|---|--------|--|------------|------------|

Specific Conductance by Modified 9050A

| | | | | | | | | |
|---------------------------|--------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 0.0473 | 0.00500 | mmhos/cm | 1 | B9H1211 | DJL | 08/12/2019 | 08/12/2019 |
|---------------------------|--------|---------|----------|---|---------|-----|------------|------------|

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Apex Companies, LLC

4150 Darley Avenue, Suite 1

Boulder CO 80305

Maggie Graham

Project Number: [none]

Project: KMG - Babcock 19N-33HZ

B03@1.5'

8/12/2019 4:08:00PM

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

Origins Laboratory, Inc.
Y908185-03 (Soil)

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B9H1210 | KDK | 08/12/2019 | 08/13/2019 | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | KDK | " | " | U |

Surrogate: o-Terphenyl 74.2 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|-----------------------------|----|-------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9H1216 | KDK | 08/12/2019 | 08/12/2019 | U |
| Benzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | KDK | " | " | U |

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 99.9 % 70-130 " " "

Metals (Saturated Paste Prep)

| | | | | | | | |
|-----------|------|------|---|--------|--|------------|------------|
| Calcium | 3.49 | me/L | 1 | [none] | | 08/14/2019 | 08/16/2019 |
| Magnesium | 2.63 | " | " | " | | " | " |
| Sodium | 0.56 | " | " | " | | " | " |

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Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

B03@1.5'

8/12/2019 4:08:00PM

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

Origins Laboratory, Inc.
Y908185-03 (Soil)

pH in Soil by EPA 9045D

| | | | | | | | | | |
|----|------|--|----------|---|---------|------|------------|------------|--|
| pH | 6.92 | | pH Units | 1 | B9H1207 | OLAB | 08/12/2019 | 08/12/2019 | |
|----|------|--|----------|---|---------|------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--|---|--------|--|------------|------------|--|
| SAR | 0.32 | | | 1 | [none] | | 08/14/2019 | 08/16/2019 | |
|-----|------|--|--|---|--------|--|------------|------------|--|

Specific Conductance by Modified 9050A

| | | | | | | | | | |
|---------------------------|--------|---------|----------|---|---------|-----|------------|------------|--|
| Specific Conductance (EC) | 0.0451 | 0.00503 | mmhos/cm | 1 | B9H1211 | DJL | 08/12/2019 | 08/12/2019 | |
|---------------------------|--------|---------|----------|---|---------|-----|------------|------------|--|

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B9H1210 - EPA 3580 | | | | | | | | | | |
| Blank (B9H1210-BLK1) | | | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
| Diesel (C10-C28) | ND | 25.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 17 | | " | 25.0 | | 69.6 | 50-150 | | | |

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Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B9H1210 - EPA 3580 | | | | | | | | | | |
| LCS (B9H1210-BS1) | | | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
| Diesel (C10-C28) | 979 | 50.0 | mg/kg | 1000 | | 97.9 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 846 | 200 | " | 1000 | | 84.6 | 70-130 | | | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 87.3 | 50-150 | | | |

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Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

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

Batch B9H1210 - EPA 3580

| Matrix Spike (B9H1210-MS1) | | Source: Y908173-01 | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
|-----------------------------------|------|--------------------|-------|------|---|------|--------|--|--|--|
| Diesel (C10-C28) | 1010 | 50.0 | mg/kg | 1000 | ND | 101 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 906 | 200 | " | 1000 | ND | 90.6 | 70-130 | | | |
| Surrogate: o-Terphenyl | 45 | | " | 50.0 | | 89.3 | 50-150 | | | |

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Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

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

Batch B9H1210 - EPA 3580

| Matrix Spike Dup (B9H1210-MSD1) | | Source: Y908173-01 | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
|-----------------------------------|------|--------------------|-------|------|---|------|--------|------|----|--|
| Diesel (C10-C28) | 1030 | 50.0 | mg/kg | 1000 | ND | 103 | 70-130 | 2.36 | 35 | |
| Residual Range Organics (C28-C40) | 884 | 200 | " | 1000 | ND | 88.4 | 70-130 | 2.49 | 35 | |
| Surrogate: o-Terphenyl | 43 | | " | 50.0 | | 85.6 | 50-150 | | | |

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B9H1216 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B9H1216-BLK1) | | | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | | | | | | | U |
| Benzene | ND | 0.002 | " | | | | | | | U |
| Toluene | ND | 0.002 | " | | | | | | | U |
| Ethylbenzene | ND | 0.002 | " | | | | | | | U |
| Xylenes, total | ND | 0.002 | " | | | | | | | U |
| Naphthalene | ND | 0.008 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 98.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 96.1 | 70-130 | | | |

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Apex Companies, LLC
4150 Darley Avenue, Suite 1
Boulder CO 80305

Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B9H1216 - EPA 5030 (soil) | | | | | | | | | | |
| LCS (B9H1216-BS1) | | | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
| Benzene | 0.111 | 0.002 | mg/kg | 0.100 | | 111 | 70-130 | | | |
| Toluene | 0.113 | 0.002 | " | 0.100 | | 113 | 70-130 | | | |
| Ethylbenzene | 0.120 | 0.002 | " | 0.100 | | 120 | 70-130 | | | |
| m,p-Xylene | 0.238 | 0.004 | " | 0.200 | | 119 | 70-130 | | | |
| o-Xylene | 0.115 | 0.002 | " | 0.100 | | 115 | 70-130 | | | |
| Naphthalene | 0.103 | 0.008 | " | 0.100 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 95.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 99.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 96.9 | 70-130 | | | |

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Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B9H1216 - EPA 5030 (soil) | | | | | | | | | | |
| Matrix Spike (B9H1216-MS1) | | Source: Y908184-01 | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
| Benzene | 0.111 | 0.002 | mg/kg | 0.100 | ND | 111 | 70-130 | | | |
| Toluene | 0.111 | 0.002 | " | 0.100 | ND | 111 | 70-130 | | | |
| Ethylbenzene | 0.120 | 0.002 | " | 0.100 | ND | 120 | 70-130 | | | |
| m,p-Xylene | 0.235 | 0.004 | " | 0.200 | ND | 118 | 70-130 | | | |
| o-Xylene | 0.117 | 0.002 | " | 0.100 | ND | 117 | 70-130 | | | |
| Naphthalene | 0.120 | 0.008 | " | 0.100 | ND | 120 | 70-130 | | | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 99.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 99.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 100 | 70-130 | | | |

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Maggie Graham
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---------------------------|------|-------------|------|-----------|---|
| Batch B9H1216 - EPA 5030 (soil) | | | | | | | | | | |
| Matrix Spike Dup (B9H1216-MSD1) | | | | | | | | | | |
| | | | | | Source: Y908184-01 | | | | | |
| | | | | | | | | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 |
| Benzene | 0.107 | 0.002 | mg/kg | 0.100 | ND | 107 | 70-130 | 3.84 | 20 | |
| Toluene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 70-130 | 4.35 | 20 | |
| Ethylbenzene | 0.114 | 0.002 | " | 0.100 | ND | 114 | 70-130 | 4.85 | 20 | |
| m,p-Xylene | 0.225 | 0.004 | " | 0.200 | ND | 112 | 70-130 | 4.48 | 20 | |
| o-Xylene | 0.113 | 0.002 | " | 0.100 | ND | 113 | 70-130 | 3.50 | 20 | |
| Naphthalene | 0.133 | 0.008 | " | 0.100 | ND | 133 | 70-130 | 10.3 | 20 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.13 | | " | 0.125 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 98.0 | 70-130 | | | |

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Maggie Graham
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Project: KMG - Babcock 19N-33HZ

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

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

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

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

Batch B9H1207 - NO PREP

| | | | | | | | | | | |
|---------------------------------|------|---------------------------|----------|--|---|--|--|------|----|--|
| Duplicate (B9H1207-DUP1) | | Source: Y908169-01 | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
| pH | 8.04 | | pH Units | | 8.15 | | | 1.36 | 25 | |

Batch B9H1211 - NO PREP

| | | | | | | | | | | |
|---------------------------------|---------|---|----------|--|---|--|--|------|----|--|
| Blank (B9H1211-BLK1) | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | | | | |
| Specific Conductance (EC) | 0.00310 | 0.00500 | mmhos/cm | | | | | | | |
| Duplicate (B9H1211-DUP1) | | Source: Y908174-01 | | | Prepared: 08/12/2019 Analyzed: 08/12/2019 | | | | | |
| Specific Conductance (EC) | 1.81 | 0.00505 | mmhos/cm | | 1.52 | | | 17.1 | 25 | |

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Maggie Graham
Project Number: [none]
Project: KMG - Babcock 19N-33HZ

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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