



October 26, 2016

LT Environmental, Inc.

Gentry Muniz

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - Anschutz Equus Farms 4-62-15_22 Project Number - 027315024
NENE**

Attached are your analytical results for Anschutz Equus Farms 4-62-15_22 NENE received by Origins Laboratory, Inc. October 19, 2016. This project is associated with Origins project number X610210-01.

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

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Gentry Muniz

Project Number: 027315024

Project: Anschutz Equus Farms 4-62-15_22
NENE

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|------------------------|------------------|
| SS01 | X610210-01 | Soil | October 19, 2016 12:25 | 10/19/2016 15:05 |

Origins Laboratory, Inc.



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Gentry Muniz
Project Number: 027315024
Project: Anschutz Equus Farms 4-62-15_22
NENE

ORIGINS

LABORATORY, INC

www.originslaboratory.com

XG10210

page 1 of 1

Client: ~~BH 3022~~ LT Environmental Inc
Address: 480 W 60th Ave
Arvada, CO
Telephone Number: 303 433 9788
Email Address: gmuniz@ltenv.com

Project Manager: Gentry Muniz
Project Name: Anschütz Equus Farms
Project Number: 027315024
Samples Collected By: DS

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | | Analysis | | | | Sample Instructions |
|------------------------------|----------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|----------------------|-------|----------|------|-------------|--|--|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa Continer # | Other | TPH | STEX | TPH EXTRACT | | |
| 5501 | 10/19/16 | 1225 | 2 | X | | | | | | X | | | | | | 1 |
| | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | | | 10 |
| Relinquished By: Drew Stormo | Date: 10/19/16 | | Time: 1505 | | | | | | | | | | | | | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> |
| Relinquished By: | Date: | | Time: | | | | | | | | | | | | | 1505 |

Temp Received- 6.8

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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Arvada CO 80003

Gentry Muniz

Project Number: 027315024

Project: Anschutz Equus Farms 4-62-15_22
NENE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XL 10210

Client: LTE

Client Project ID: Anschutz Equus Farms

Checklist Completed by: Jeff Sam

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

Date/time completed: 10/20/16

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 16.2 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: TCCB

| 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>Sampled 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"/> | | | |
| 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) Jeff Sam

Date/Time Reviewed 10/26/16

Origins Laboratory, Inc.

Jeff Pellegrini

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Gentry Muniz
Project Number: 027315024
Project: Anschutz Equus Farms 4-62-15_22
NENE

SS01

10/19/2016 12:25:00PM

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

Origins Laboratory, Inc.
X610210-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

| | | | | | | | | |
|------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B6J2404 | 10/24/2016 | 10/26/2016 | U |
|------------------|----|------|-------|---|---------|------------|------------|---|

| | | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 63.3 % | 59-131 | | | " | " | " | |
|------------------------|--------|--------|--|--|---|---|---|--|

GBTEX by EPA 8260C

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B6J2403 | 10/24/2016 | 10/24/2016 | U |
| Benzene | ND | 0.002 | " | " | " | " | " | U |
| Toluene | ND | 0.002 | " | " | " | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 98.7 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 100 % | 70-130 | | | " | " | " | |

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Gentry Muniz
Project Number: 027315024
Project: Anschutz Equus Farms 4-62-15_22
NENE

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B6J2403 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B6J2403-BLK1) | | | | | Prepared: 10/24/2016 Analyzed: 10/25/2016 | | | | | |
| 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 |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | ug/kg | 62.5 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 103 | 70-130 | | | |

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Project: Anschutz Equus Farms 4-62-15_22
NENE

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B6J2403 - EPA 5030 (soil) | | | | | | | | | | |
| LCS (B6J2403-BS1) | | | | | Prepared: 10/24/2016 Analyzed: 10/25/2016 | | | | | |
| Benzene | 0.099 | 0.002 | mg/kg | 0.100 | | 99.4 | 77.1-124 | | | |
| Toluene | 0.104 | 0.002 | " | 0.100 | | 104 | 74.5-128 | | | |
| Ethylbenzene | 0.111 | 0.002 | " | 0.100 | | 111 | 66.4-127 | | | |
| m,p-Xylene | 0.225 | 0.004 | " | 0.200 | | 113 | 76.6-124 | | | |
| o-Xylene | 0.111 | 0.002 | " | 0.100 | | 111 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 62 | | ug/kg | 62.5 | | 99.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 103 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 103 | 70-130 | | | |

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NENE

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

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

Batch B6J2403 - EPA 5030 (soil)

| Matrix Spike (B6J2403-MS1) | | Source: X610210-01 | | | Prepared: 10/24/2016 Analyzed: 10/24/2016 | | | | | |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|--|--|--|
| Benzene | 0.101 | 0.002 | mg/kg | 0.100 | ND | 101 | 71.8-126 | | | |
| Toluene | 0.101 | 0.002 | " | 0.100 | ND | 101 | 65.1-130 | | | |
| Ethylbenzene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 62.2-130 | | | |
| m,p-Xylene | 0.212 | 0.004 | " | 0.200 | ND | 106 | 46.5-137 | | | |
| o-Xylene | 0.104 | 0.002 | " | 0.100 | ND | 104 | 54.2-134 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 57 | | ug/kg | 62.5 | | 91.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 66 | | " | 62.5 | | 105 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 60 | | " | 62.5 | | 95.3 | 70-130 | | | |

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NENE

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

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

Batch B6J2403 - EPA 5030 (soil)

| Matrix Spike Dup (B6J2403-MSD1) | | Source: X610210-01 | | | Prepared: 10/24/2016 Analyzed: 10/24/2016 | | | | | |
|----------------------------------|-------|--------------------|-------|-------|---|------|----------|------|------|--|
| Benzene | 0.106 | 0.002 | mg/kg | 0.100 | ND | 106 | 71.8-126 | 4.12 | 11.3 | |
| Toluene | 0.104 | 0.002 | " | 0.100 | ND | 104 | 65.1-130 | 3.17 | 15.4 | |
| Ethylbenzene | 0.109 | 0.002 | " | 0.100 | ND | 109 | 62.2-130 | 1.46 | 19.6 | |
| m,p-Xylene | 0.221 | 0.004 | " | 0.200 | ND | 111 | 46.5-137 | 4.15 | 19.2 | |
| o-Xylene | 0.111 | 0.002 | " | 0.100 | ND | 111 | 54.2-134 | 6.16 | 17.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 61 | | ug/kg | 62.5 | | 97.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 66 | | " | 62.5 | | 105 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 99.8 | 70-130 | | | |

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NENE

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

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

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

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

Batch B6J2404 - EPA 3580

Blank (B6J2404-BLK1)

Prepared: 10/24/2016 Analyzed: 10/24/2016

| | | | | | | | | | | |
|------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Surrogate: o-Terphenyl | 38 | | " | 50.0 | | 75.2 | 59-131 | | | |

LCS (B6J2404-BS1)

Prepared: 10/24/2016 Analyzed: 10/24/2016

| | | | | | | | | | | |
|------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 891 | 50.0 | mg/kg | 1000 | | 89.1 | 64-121 | | | |
| Surrogate: o-Terphenyl | 41 | | " | 50.0 | | 82.4 | 59-131 | | | |

Matrix Spike (B6J2404-MS1)

Source: X610210-01

Prepared: 10/24/2016 Analyzed: 10/24/2016

| | | | | | | | | | | |
|------------------------|-----|------|-------|------|------|------|--------|--|--|--|
| Diesel (C10-C28) | 909 | 50.0 | mg/kg | 1000 | 22.5 | 88.7 | 53-125 | | | |
| Surrogate: o-Terphenyl | 41 | | " | 50.0 | | 81.2 | 59-131 | | | |

Matrix Spike Dup (B6J2404-MSD1)

Source: X610210-01

Prepared: 10/24/2016 Analyzed: 10/24/2016

| | | | | | | | | | | |
|------------------------|-----|------|-------|------|------|------|--------|------|----|--|
| Diesel (C10-C28) | 943 | 50.0 | mg/kg | 1000 | 22.5 | 92.1 | 53-125 | 3.65 | 20 | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 87.4 | 59-131 | | | |

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Gentry Muniz
Project Number: 027315024
Project: Anschutz Equus Farms 4-62-15_22
NENE

Notes and Definitions

U Sample is Non-Detect.

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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