



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 31, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RIO BLANCO 33 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 08/30/17 16:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/30/2017
Reported: 08/31/2017
Project Name: RIO BLANCO 33 FED 1
Project Number: 700794.243.01
Project Location: LEA COUNTY, NM

Sampling Date: 08/28/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W. SIDE WALL 1.0' (H702317-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 08/31/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/31/2017 | ND | 169 | 84.3 | 200 | 3.20 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/31/2017 | ND | 175 | 87.6 | 200 | 5.40 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/31/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | | 92.5 % | 28.3-164 | | | | | | |
| Surrogate: 1-Chlorooctadecane | | 94.5 % | 34.7-157 | | | | | | |

Sample ID: S. SIDE WALL 1.0' (H702317-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 320 | 16.0 | 08/31/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/31/2017 | ND | 169 | 84.3 | 200 | 3.20 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/31/2017 | ND | 175 | 87.6 | 200 | 5.40 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/31/2017 | ND | | | | | |
| Surrogate: 1-Chlorooctane | | 93.0 % | 28.3-164 | | | | | | |
| Surrogate: 1-Chlorooctadecane | | 103 % | 34.7-157 | | | | | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 08/30/2017
 Reported: 08/31/2017
 Project Name: RIO BLANCO 33 FED 1
 Project Number: 700794.243.01
 Project Location: LEA COUNTY, NM

 Sampling Date: 08/28/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E. SIDE WALL 1.0' (H702317-03)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: AC | | | | | | | |
|-------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 432 | 16.0 | 08/31/2017 | ND | 448 | 112 | 400 | 0.00 | | |
| TPH 8015M | | mg/kg | Analyzed By: MS | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 08/31/2017 | ND | 169 | 84.3 | 200 | 3.20 | | |
| DRO >C10-C28 | 257 | 10.0 | 08/31/2017 | ND | 175 | 87.6 | 200 | 5.40 | | |
| EXT DRO >C28-C36 | 20.8 | 10.0 | 08/31/2017 | ND | | | | | | |
| | | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 90.5 % | 28.3-164 | | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 % | 34.7-157 | | | | | | | | |

Sample ID: N. SIDE WALL 1.0' (H702317-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 08/31/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/31/2017 | ND | 169 | 84.3 | 200 | 3.20 | |
| DRO >C10-C28 | 11.4 | 10.0 | 08/31/2017 | ND | 175 | 87.6 | 200 | 5.40 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/31/2017 | ND | | | | | |
| | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 91.7 % | 28.3-164 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.7 % | 34.7-157 | | | | | | | |

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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 08/30/2017
Reported: 08/31/2017
Project Name: RIO BLANCO 33 FED 1
Project Number: 700794.243.01
Project Location: LEA COUNTY, NM

Sampling Date: 08/28/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N. BOTTOM EXCAV. 1.0' (H702317-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 08/31/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/31/2017 | ND | 169 | 84.3 | 200 | 3.20 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/31/2017 | ND | 175 | 87.6 | 200 | 5.40 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/31/2017 | ND | | | | | |
| | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 94.9 % | 28.3-164 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 103 % | 34.7-157 | | | | | | | |

Sample ID: S. BOTTOM EXCAV. 2.0' (H702317-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 08/31/2017 | ND | 448 | 112 | 400 | 0.00 | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 08/31/2017 | ND | 169 | 84.3 | 200 | 3.20 | |
| DRO >C10-C28 | <10.0 | 10.0 | 08/31/2017 | ND | 175 | 87.6 | 200 | 5.40 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/31/2017 | ND | | | | | |
| | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 93.7 % | 28.3-164 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 99.4 % | 34.7-157 | | | | | | | |

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DAVID ADKINS
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Fax To: (575) 745-8905

Received: 08/30/2017
Reported: 08/31/2017
Project Name: RIO BLANCO 33 FED 1
Project Number: 700794.243.01
Project Location: LEA COUNTY, NM

Sampling Date: 08/28/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-3 0.25' (H702317-07)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|-----------------|------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 352 | 16.0 | 08/31/2017 | ND | 448 | 112 | 400 | 0.00 | |

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

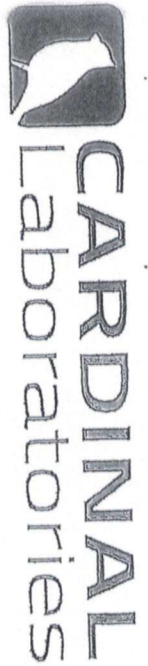
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

| | | | | | | | | | | | |
|--|------------------------|-----------------------------|---|-------------------------------|---|-------------------------|------|---------------------------|---|---------------------------|-----------------|
| Company Name: Talon/LE | | P.O. #: 700794/243.01 | | | | | | | | | |
| Project Manager: DAVID ADAMS | | Company: Talon/LE | | | | | | | | | |
| Address: 408 W. Texas Ave. | | Attn: D. Adams | | | | | | | | | |
| City: Artesia | | State: NM Zip: 88210 | | | | | | | | | |
| Phone #: 575-746-8768 | | Fax #: 575-746-8905 | | | | | | | | | |
| Project #: 700794.243.01 | | Project Owner: Devon Energy | | | | | | | | | |
| Project Name: Rio Blanco 33 Fed I | | City: | | | | | | | | | |
| Project Location: Lea County NM | | State: Zip: | | | | | | | | | |
| Sample Name: R. DeRosier | | Phone #: | | | | | | | | | |
| FOR LAB USE ONLY | | Fax #: | | | | | | | | | |
| Lab I.D. | Sample I.D. | MATRIX | | PRESERV. | | SAMPLING | | | | | |
| | | (G)RAB OR (C)OMP. | | # CONTAINERS | | DATE | | | | | |
| H102317 | 1 W. side well 1.0' | ✓ | ✓ | ✓ | ✓ | 8/29/17 | 3:05 | ✓ | ✓ | TPH EXT. | TOTAL CHLORIDES |
| | 2 S. side well 1.0' | ✓ | ✓ | ✓ | ✓ | 8/29 | 3:08 | ✓ | ✓ | | |
| | 3 E. side well 1.0' | ✓ | ✓ | ✓ | ✓ | | 3:10 | ✓ | ✓ | | |
| | 4 N. side well 1.0' | ✓ | ✓ | ✓ | ✓ | | 3:17 | ✓ | ✓ | | |
| | 5 N. Bottom EXCH. 1.0' | ✓ | ✓ | ✓ | ✓ | | 3:00 | ✓ | ✓ | | |
| | 6 S. Bottom EXCH. 2.0' | ✓ | ✓ | ✓ | ✓ | | 3:03 | ✓ | ✓ | | |
| | 7 S-3 0.25' | ✓ | ✓ | ✓ | ✓ | | 3:30 | ✓ | ✓ | | |
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| Relinquished By: [Signature] | | Date: 8/30/17 | | Received By: [Signature] | | Date: 8/30/17 | | Time: 0900 | | Time: 0900 | |
| Relinquished By: [Signature] | | Date: 8/30/17 | | Received By: [Signature] | | Date: 8/30/17 | | Time: 0900 | | Time: 0900 | |
| Delivered By: (Circle One) 3.6e | | Time: 1447 | | Sample Condition: [Signature] | | CHECKED BY: [Signature] | | Phone Result: [Signature] | | Phone Result: [Signature] | |
| Sampler - UPS - Bys - Other: [Signature] | | Time: 1447 | | Sample Condition: [Signature] | | CHECKED BY: [Signature] | | Phone Result: [Signature] | | Phone Result: [Signature] | |

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326