Bratcher, Mike, EMNRD

From:Michael Stubblefield [mstubblefield@talonlpe.com]Sent:Friday, September 23, 2011 9:07 AMTo:Bratcher, Mike, EMNRDCc:gnewton@pvtnetworks.netSubject:FW: ARTESIA UNIT NO 32Attachments:H102002 TALON.pdf; diagram for Artesia Unit No. 32.pdf

Mike,

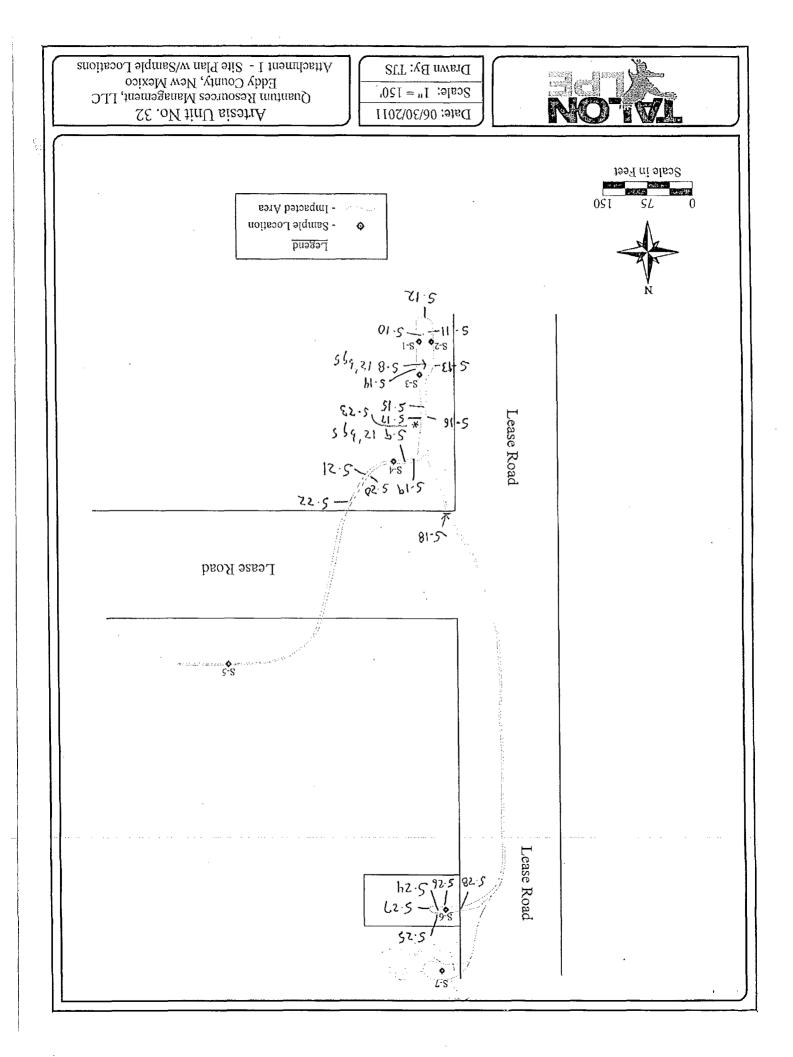
Talon/LPE is sending you the analytical results for the soil samples collected on 9/14/2011 from the excavated area at the Quantum Resources Management Artesia Unit No. 32 release. Please review the analytical results, I will be over to your office to discuss further steps to taken for the remediation at the Artesia Unit No. 32 release site.

Mike Stubblefield Talon/LPE Project Manager

From: Celey Keene [mailto:celey.keene@cardinallabsnm.com]
Sent: Thursday, September 22, 2011 2:14 PM
To: Michael Stubblefield
Cc: David Adkins
Subject: ARTESIA UNIT NO 32

THANK YOU,

Celey Keene Lab Director Cardinal Laboratories 101 East Marland Hobbs, NM 88240 T: (575) 393-2326 F: (575) 393-2476 e-mail: celey.keene@cardinallabsnm.com



CARDINAL

September 22, 2011

MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: ARTESIA UNIT #32

Enclosed are the results of analyses for samples received by the laboratory on 09/20/11 15:12.

Cardinal Laboratories is accredited through Texas NELAP for:

| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
|--------------------|--|
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005 | Total Petroleum Hydorcarbons |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated 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 (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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

| Received: | 09/20/2011 | Sampling Date: | 09/14/2011 |
|-------------------|-------------------|---------------------|----------------|
| Reported: | 09/22/2011 | Sampling Type: | Soil |
| Project Name: | ARTESIA UNIT #32 | Sampling Condition: | ** (See Notes) |
| Project Number: | 701407.009.01 | Sample Received By: | Jodi Henson |
| Project Location: | SEC. 36-T17S.R28E | | |

Sample ID: S-8 12' BGS (H102002-01)

| Chloride, SM4500CI-B | mg | /kg | Analyzed By: HM | | | | <u>.</u> | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: S-9 12' BGS (H102002-02)

| Chloride, SM4500Cl-B mg/kg | | | Analyzed By: HM | | | | | | |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 368 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: S-10 BTTM EXC 5' BGS (H102002-03)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | · BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7360 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: S-11 BTTM EXC 3' BGS (H102002-04)

| Chloride, SM4500Cl-B | | mg, | /kg | Analyze | Analyzed By: HM | | | | <u> </u> | | |
|----------------------|---|--------|-----------------|------------|-----------------|------------|-----|------------|---------------|------|-----------|
| Analyte | · | Result | Reporting Limit | Analyzed | Me | thod Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | | 32.0 | 16.0 | 09/21/2011 | | ND | 416 | 104 | 400 | 3.77 | |

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*=Accredited Analyte

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Celezz Keine

Celey D. Keene, Lab Director/Quality Manager



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

| 09/20/2011 | Sampling Date: | 09/14/2011 |
|-------------------|---|---|
| 09/22/2011 | Sampling Type: | Soil |
| ARTESIA UNIT #32 | Sampling Condition: | ** (See Notes) |
| 701407.009.01 | Sample Received By: | Jodi Henson |
| SEC. 36-T17S.R28E | | |
| | 09/22/2011 ARTESIA UNIT #32 701407.009.01 | 09/22/2011Sampling Type:ARTESIA UNIT #32Sampling Condition:701407.009.01Sample Received By: |

Sample ID: S-12 SOUTHSIDE WALL (H102002-05)

| Chloride, SM4500Cl-B | mg | /kg | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS . | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: S-13 WESTSIDE WALL (H102002-06)

| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: S-14 EASTSIDE WALL (H102002-07)

| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 3.77 | |

Sample ID: S-15 BTTM EXC 3' BGS (H102002-08)

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: HM | | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS · | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1600 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 3.77 | | |

Sample ID: S-16 WESTSIDE WALL (H102002-09)

| Chloride, SM4500Cl-B | mg | /kg | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

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Celey D. Keene, Lab Director/Quality Manager



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| Received: | 09/20/2011 | Sampling Date: | 09/14/2011 |
|-------------------|-------------------|---------------------|----------------|
| Reported: | 09/22/2011 | Sampling Type: | Soil |
| Project Name: | ARTESIA UNIT #32 | Sampling Condition: | ** (See Notes) |
| Project Number: | 701407.009.01 | Sample Received By: | Jodi Henson |
| Project Location: | SEC. 36-T17S.R28E | | |

Sample ID: S-17 EASTSIDE WALL (H102002-10)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | alyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|---------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3400 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: S-18 NORTHSIDE WALL (H102002-11)

| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2600 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7,41 | |

Sample ID: S-19 BTTM EXC 4' BGS (H102002-12)

| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: HM | | | | | <u> </u> | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|----------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3240 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: S-20 NORTHSIDE WALL (H102002-13)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1460 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-21 SOUTHSIDE WALL (H102002-14)

| Chloride, SM4500Cl-B mg/kg | | | Analyze | Analyzed By: HM | | | | | |
|----------------------------|--------|-----------------|------------|-----------------|-------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1230 | 16.0 | 09/21/2011 | ND | 416 . | 104 | 400 | 7.41 | |

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Celey D. Keene, Lab Director/Quality Manager



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| Received: | 09/20/2011 | Sampling Date: | 09/14/2011 |
|-------------------|-------------------|---------------------|----------------|
| Reported: | 09/22/2011 | Sampling Type: | Soil |
| Project Name: | ARTESIA UNIT #32 | Sampling Condition: | ** (See Notes) |
| Project Number: | 701407.009.01 | Sample Received By: | Jodi Henson |
| Project Location: | SEC. 36-T17S.R28E | | |

Sample ID: S-22 EASTSIDE WALL (H102002-15)

| Chloride, SM4500Cl-8 mg/kg | | | Analyzed By: HM | | | | | | |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: S-23 EAST OF FLOWLINE (H102002-16)

| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: S-24 BTTM EXC 3' BGS (H102002-17)

| Chloride, SM4500Cl-B mg/kg | | | Analyzed By: HM | | | | | | |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3520 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: S-25 NORTHSIDE WALL (H102002-18)

| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: HM | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1120 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

Sample ID: S-26 SOUTHSIDE WALL (H102002-19)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: HM | | | <u> </u> | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

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Celey D. Keene, Lab Director/Quality Manager



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| Received: | 09/20/2011 | Sampling Date: | 09/14/2011 |
|-------------------|-------------------|---------------------|----------------|
| Reported: | 09/22/2011 | Sampling Type: | Soil |
| Project Name: | ARTESIA UNIT #32 | Sampling Condition: | ** (See Notes) |
| Project Number: | 701407.009.01 | Sample Received By: | Jodi Henson |
| Project Location: | SEC. 36-T17S.R28E | | |
| | | | |

Sample ID: S-27 EASTSIDE WALL (H102002-20)

| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: HM | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 09/21/2011 | ND | 416 | 104 | 400 | 7.41 | |

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager

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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 SM4500CI-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 & Kune

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 9

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

.

| | 101 East Marland, Hobbs, NM 8 (675) <u>393-2326</u> FAX (675) <u>393-24</u> | - | | | | 1.3 |
|---------------------|--|--|---|--|-----------------|---|
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| Project Wanage | Br: Mike Stubble field | | P. O. V: | T T T | | |
| | 408 Jest Terns Ave. | | Company: Talon/LFE | | | |
| 1 | Artesia State: N.S | ۹,Zip: 8 | Atin: | | | |
| Phone \$: | 5-25-441-7254 Fax#: | | Address: | | | |
| Project #: | 701407.009.01 Project Own | er: Quientum Ref. | City: | | | 2 |
| | Artesia VarNo. 32 | | State: Zip: | | | |
| | m scc. 36 THS-RZEE | | Phone #: | | | |
| | martstillfull | Contraction of the second secon | Fax #: | he's | | |
| FOR LAB USB ONLY | | MATRIX | PRESERV SAMPLING | 100 | | |
| Lab I.D. H1D2002 | Sample I.D. <u>S.S. rz´bys</u> S.Y. rz´bys | (G)RAB OR (C)OM (G)RAB OR (C)OM # CONTANERS GROUNDWATER GROUNDWATER WASTEWATER SOIL OIL | OTHER : ACIDIBASE: ICE / COOL OTHER : ATTER : | Total chloside | | |
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| <u> </u> | 5:14 eastside will | 9 0 | 1 9/11/00 2:20 ? | 1 | - | |
| | 5.15 bottom exerustion 3' 595 | <u> </u> | 1 9/10/2011 20248 | | | |
| Ч | 5-16 westride welt | 6 | 1 9/14/211 2 351° | / | | |
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Cardinal cannot accept verbal changes. Please fax written changes to 565-393,2476

Page 8 of 9



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | (575) 393-2326 FAX (575) 393-247 | 6 | | · · · · · · · · · · · · · · · · · · · | , |
|---------------------|----------------------------------|--|--|--|---|
| Company Name: | Talos / LPE | | BILL TO | ANALYSIS REQUEST | |
| Project Manager | · mile stubble field | ······································ | P.O. #: | | |
| Address: | 408 W. TCKUS AVE. | | Company: Talog/2PE | | |
| City: | N/iron State: NM | Zip: 28710 | Attn: | | |
| Phone #: | 575-441.5054 Fax #: | | Address: | | |
| Project #: | 10 HOLCOLDI Project Owner | Oventum Res | City: | | |
| Project Name: | Artesin Unit No. 32 | 1 | State: Zip: | | |
| Project Location | 5 er. 36 TINS - RZ4K | | Photie #: | | |
| Sampler Name: | marks wellfull | • | Fax #: | | 1 |
| FOR LAB USE QNLY | \$ | MATRIX | PRESERV. SAMPLING | i i i i i i i i i i i i i i i i i i i | |
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| 13 | 5-20 North side well | <u>د</u> | 1 3/14/2011 3:14P | | |
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PLEASE NOTE: Listeliky and Danlages. Corolival's liability and client's exclusive remedy for any claim arising whether based in central or loft, shall be limited to the amount paid by the client for the analyses. All claims including hase for negligence and any other cause whatsnews shall be devined waived unless made in writing and received by Central Alays after completion of the applicable control of the provided by their the mainted of the company of the client for the client of the analyses.

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476