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Soil Assessment and Remediation Work Plan

Grandi 22-3 * 30-015-33922 * **2RP-3647**

Talon Project No. 700794.186.01

Prepared For:

Devon Energy Production Company,
6488 Seven Rivers Hwy
Artesia, New Mexico 88210

Prepared By:

Kimberly M. Wilson
Talon/LPE
408 West Texas
Artesia, New Mexico 88210

May 12, 2016

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**
Devon Energy
Grandi 22-3 * 30-015-33922 * 2RP-3647

Dear Mr. Bratcher,

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Incident Date

April 20, 2016

Site Information

The Grandi 22-3 is located approximately four (4) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section A, Township 22 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.3835716 North and 104.17298 West. See site plan in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of up of Reagan-Upton association with 0 to 9 percent slopes. Drainage courses in this area are normally dry.

Groundwater and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water data to be in S23-T22S-R27E. The ground water in the area is reported to be a depth of 40-feet below ground surface (bgs). The referenced groundwater data is presented in [Appendix II](#).

Therefore the ranking for this site is a **20** based on the following:

| | |
|--------------------------------|--------|
| Depth to ground water | <50' |
| Wellhead Protection Area | >1000' |
| Distance to surface water body | >1000' |

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 1000 mg/kg for total chlorides.

Incident Description

On July 2, 2015 Blue Wally Construction submitted a OneCall ticket for installing a sprinkler system for a private home owner. Devon Energy's line locating department responded with a positive response by flagging the line and requesting in the notes that the construction company was to contact Devon so that a representative could be present at the time of the installation of the sprinklers. Blue Wally Construction failed to contact Devon Energy as requested and installed the sprinkler system. In March 2016, the home owner contacted Devon Energy believing that the line had developed a leak due to staining in his yard. Devon pressured the line on March 18, 2016 to identify exactly where the leak was located. On March 21, 2016 Devon excavated a small area around the line to identify how the line had failed. A cut into the line was identified right underneath the sprinkler system line that was routed over the top of the line. The coordinates are 32.383947, -104.168534. A site plan is presented in [Appendix I](#) which illustrates the impacted areas.

On April 20, 2016, Talon mobilized personnel to begin the preliminary site assessment and to collect initial soil samples from the impacted area with a hand auger to a depth of 0.5 feet deep, where refusal was encountered. Laboratory results are presented below in [Table 1](#).

Talon returned to the site with a backhoe for further vertical delineation as requested by the NMOCD was carried out May 4, 2016. Sample location S-8 was advanced at a location where a dead tree was removed. (The trees planted along the tree line were placed into holes drilled through the rock shelf.) Laboratory results are presented below in [Table 2](#).

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

April 22, 2016

Table 1

| Sample ID | Depth (feet) | BTEX (mg/kg) | Chlorides (mg/kg) | TPH (mg/kg) GRO | TPH (mg/kg) DRO |
|----------------|--------------|--------------|-------------------|-----------------|-----------------|
| S-1 | 0' | <0.300 | 8260 | 10.4 | 1050 |
| Refusal | 0.5 | <0.300 | 3480 | <10 | 24.4 |
| S-2 | 0' | <0.300 | 14000 | <50 | 3270 |
| Refusal | 0.5' | <0.300 | 6930 | <10 | 180 |
| S-3 | 0' | -- | 1840 | -- | -- |
| S-4 | 0' | -- | 448 | -- | -- |
| Refusal | 0.25' | -- | 592 | -- | -- |
| S-5 | 0' | -- | 3360 | -- | -- |
| Refusal | 0.25' | -- | 3280 | -- | -- |
| S-6 | 0' | -- | 592 | -- | -- |
| Refusal | 0.25' | -- | 1280 | -- | -- |
| S-7 | 0' | -- | 400 | -- | -- |
| Refusal | 0.25' | -- | 576 | -- | -- |

--Analyte Not Tested

May 6, 2016

Table 2

| Sample ID | Depth (feet) | BTEX (mg/kg) | Chlorides (mg/kg) | TPH (mg/kg) GRO | TPH (mg/kg) DRO |
|-----------|-----------------|-----------------|----------------------|--------------------|--------------------|
| S-8 | 0.5' | <0.300 | 400 | <10 | <10 |
| | 1' | <0.300 | 2640 | <10 | <10 |
| | 2' | <0.300 | 4880 | <10 | <10 |
| | 3' | <0.300 | 4160 | <10 | 11.7 |
| | 4' | <0.300 | 1920 | <10 | 21.3 |
| | 5' | <0.300 | 2080 | <10 | 21.5 |
| | 6' | <0.300 | 2400 | <10 | <10 |
| | 7' | <0.300 | 2760 | <10 | <10 |
| | 8' | <0.300 | 3240 | <10 | 34.7 |

Proposed Remedial Actions

- The impacted area within the yard at sample locations S-1 thru S-7 will be excavated down to the rock shelf and backfilled using new topsoil and contoured to match the surrounding yard.
- The dead trees will be removed and the impacted area will be excavated approximately 75-feet long by 6-feet deep and 3-feet wide.
- A 2-foot clay liner will be installed into the bottom of the excavation at the tree line and will be backfilled with new top soil (locally obtained) and contoured to match the surrounding tree line.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE


Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

Attachments:

Appendix I Site Plan
Appendix II Groundwater Data & Initial C-141
Appendix III Laboratory Results

APPENDIX I

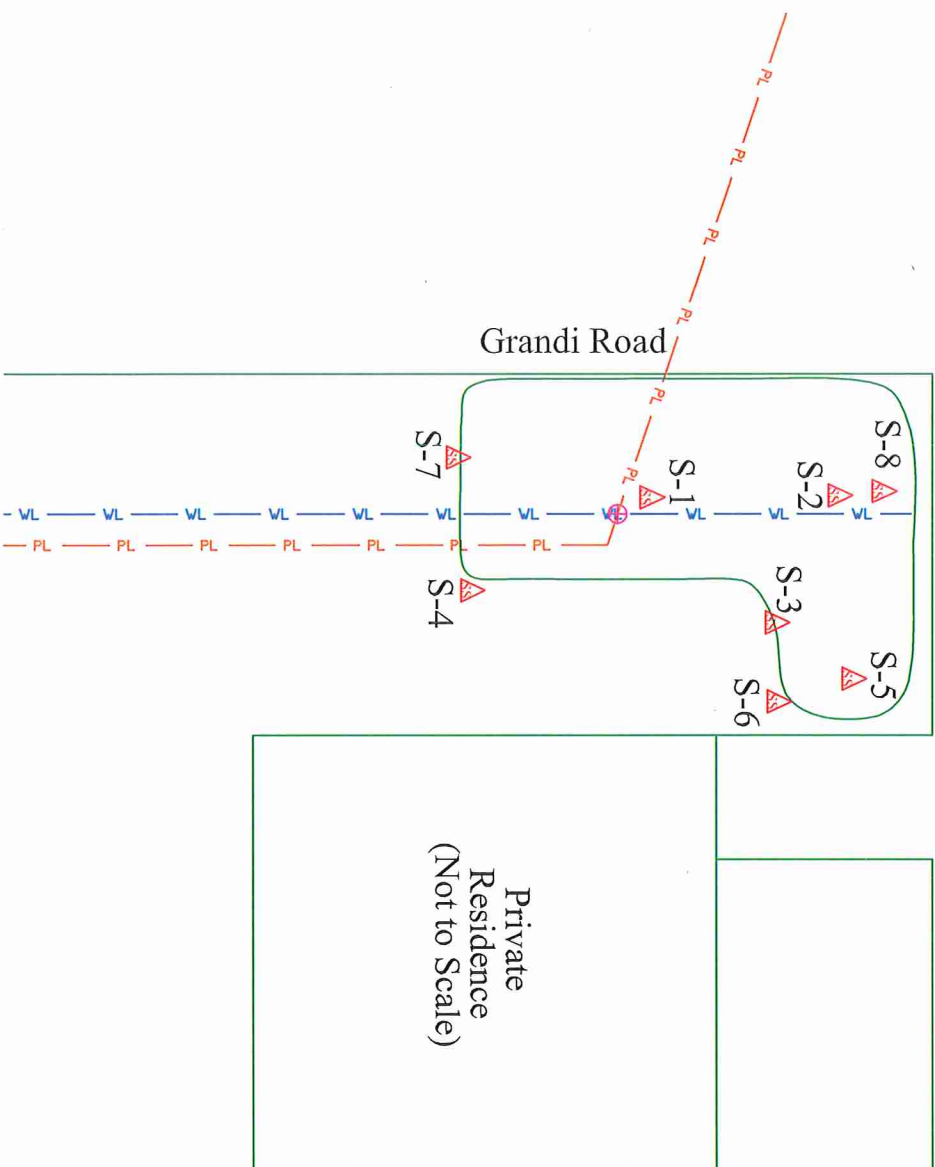
SITE MAP



0 15 30
Scale in Feet

Legend

- ⊕ - Source Location
- △ - Surface Soil Samples
- PL — Pipeline
- WL — Irrigation Line



Date: 04/28/2016
Scale: 1" = 30'
Drawn By: SMM

Grandi 22-3 Line
Devon Energy Corporation
Eddy County, New Mexico
Site Plan

APPENDIX II
GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---------------------------|--------------|-------|--------|------|------|-----|-----|-----|--------|----------|----------|----------|------------|-------------|--------------|
| C 00043 | C | ED | | 3 | 3 | 3 | 14 | 22S | 27E | 578256 | 3583557* | 206 | 120 | | |
| C 01776 | C | ED | | 3 | 1 | 23 | 22S | 27E | 578361 | 3582846* | | 515 | 157 | 40 | 117 |
| C 00231 A | | ED | | 1 | 4 | 1 | 23 | 22S | 27E | 578666 | 3582951* | 571 | 178 | 45 | 133 |
| C 03063 | | ED | | 1 | 4 | 1 | 23 | 22S | 27E | 578666 | 3582951* | 571 | 163 | 40 | 123 |

Average Depth to Water: 41 feet

Minimum Depth: 40 feet

Maximum Depth: 45 feet

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 578258

Northing (Y): 3583351

Radius: 1000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

NM OIL CONSERVATION

ARTESIA DISTRICT

APR 14 2016

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
conformance with 19.15.29 NMAC.

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Release Notification and Corrective Action

0AB11010626594 6137 OPERATOR ☒ Initial Report ☐ Final Report

| | |
|---|---------------------------------------|
| Name of Company Devon Energy Production Company | Contact Brett Fulks, EHS Professional |
| Address 6488 Seven Rivers Hwy Artesia, NM 88210 | Telephone No. 432.301.3223 |
| Facility Name Grandi 22-3 | Facility Type Gas |

| | | |
|---------------|---------------|---------------------|
| Surface Owner | Mineral Owner | API No 30-015-33922 |
|---------------|---------------|---------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| A | 22 | 22S | 27E | 660 | FNL | 1210 | FEL | Eddy |

Latitude:

Longitude:

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release Produced Water | Volume of Release Unknown | Volume Recovered : 0 |
| Source of Release Produced water line to SWD was damaged by third party | Date and Hour of Occurrence 12/15/15 12:45/2016 12:00PM | Date and Hour of Discovery 3/18/2016 12:00PM |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

On July 2nd of 2015, Blue Wally Construction submitted a One Call Ticket for installing a sprinkler system for a private home owner. Devon Energy's line locating department responded with positive response by flagging the line and requesting in the notes that Blue Wally Construction contact Devon Energy so that a representative could be present to witness the dig. Blue Wally Construction failed to contact Devon Energy as requested and installed the sprinkler system at some point. In December of 2015, Devon Energy produced through the line to a commercial SWD for a short duration of time. In March of 2016, the home owner contacted Devon Energy, believing that the line had developed a leak due to staining in his yard. Devon Energy pressured the line on 3/18/16 to identify if and exactly where the leak was. Then on 3/21/16, Devon excavated a small area around the line to identify how the line had failed. A cut into the line was identified right underneath the sprinkler system line that was routed over the top of the line. Currently the exact volumes that were released from the line are unknown.

Describe Area Affected and Cleanup Action Taken.*

The area affected is a private residential yard at the approximate coordinate of: Lat:32.383947 Lon:104.168534 in WGS84. An environmental remediation company will be contacted to delineate and remediate the spill.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | | |
|--------------------------------------|---------------------------------------|-----------------------------------|
| Signature: <u>Brett Fulks</u> | OIL CONSERVATION DIVISION | |
| Printed Name: Brett Fulks | Signed By <u>[Signature]</u> | |
| Title: EHS Professional | Approved by Environmental Specialist: | |
| E-mail Address: brett.fulks@dmv.com | Approval Date: <u>4/15/16</u> | Expiration Date: <u>N/A</u> |
| Date: 04/07/2016 Phone: 432-301-3223 | Conditions of Approval: | Attached <input type="checkbox"/> |

Remediation per O.C.D. Rules & Guidelines

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 5/15/16

2RP-3647

* Attach Additional Sheets If Necessary

APPENDIX III
LABORATORY RESULTS



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

April 22, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: GANDI #22

Enclosed are the results of analyses for samples received by the laboratory on 04/21/16 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/ga/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,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2016
Reported: 04/22/2016
Project Name: GANDI #22
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S - 1 0' (H600871-01)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2016 | ND | 2.14 | 107 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 04/22/2016 | ND | 2.06 | 103 | 2.00 | 2.59 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2016 | ND | 1.87 | 93.6 | 2.00 | 3.31 | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2016 | ND | 5.74 | 95.6 | 6.00 | 3.02 | |
| Total BTX | <0.300 | 0.300 | 04/22/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8260 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 10.4 | 10.0 | 04/22/2016 | ND | 188 | 93.9 | 200 | 8.09 | |
| DRO >C10-C28 | 1050 | 10.0 | 04/22/2016 | ND | 217 | 109 | 200 | 11.4 | |

Surrogate: 1-Chlorooctane 81.7 % 35-147

Surrogate: 1-Chlorooctadecane 148 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2016
Reported: 04/22/2016
Project Name: GANDI #22
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S - 1 0.5' (H600871-02)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2016 | ND | 2.14 | 107 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 04/22/2016 | ND | 2.06 | 103 | 2.00 | 2.59 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2016 | ND | 1.87 | 93.6 | 2.00 | 3.31 | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2016 | ND | 5.74 | 95.6 | 6.00 | 3.02 | |
| Total BTEX | <0.300 | 0.300 | 04/22/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3480 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.77 | |

| 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 | 04/22/2016 | ND | 188 | 93.9 | 200 | 8.09 | |
| DRO >C10-C28 | 24.4 | 10.0 | 04/22/2016 | ND | 217 | 109 | 200 | 11.4 | |

Surrogate: 1-Chlorooctane 75.9 % 35-147

Surrogate: 1-Chlorooctadecane 92.8 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/21/2016
 Reported: 04/22/2016
 Project Name: GANDI #22
 Project Number: 700794.186.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/20/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S - 2 0' (H600871-03)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2016 | ND | 2.14 | 107 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 04/22/2016 | ND | 2.06 | 103 | 2.00 | 2.59 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2016 | ND | 1.87 | 93.6 | 2.00 | 3.31 | |
| Total Xylenes* | 0.174 | 0.150 | 04/22/2016 | ND | 5.74 | 95.6 | 6.00 | 3.02 | |
| Total BTX | <0.300 | 0.300 | 04/22/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PI) 106 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 14000 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | QM-07 |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <50.0 | 50.0 | 04/22/2016 | ND | 188 | 93.9 | 200 | 8.09 | |
| DRO >C10-C28 | 3270 | 50.0 | 04/22/2016 | ND | 217 | 109 | 200 | 11.4 | |

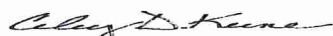
Surrogate: 1-Chlorooctane 91.8 % 35-147

Surrogate: 1-Chlorooctadecane 173 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2016
Reported: 04/22/2016
Project Name: GANDI #22
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S - 2 0.5' (H600871-04)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/22/2016 | ND | 2.14 | 107 | 2.00 | 2.41 | |
| Toluene* | <0.050 | 0.050 | 04/22/2016 | ND | 2.06 | 103 | 2.00 | 2.59 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/22/2016 | ND | 1.87 | 93.6 | 2.00 | 3.31 | |
| Total Xylenes* | <0.150 | 0.150 | 04/22/2016 | ND | 5.74 | 95.6 | 6.00 | 3.02 | |
| Total BTX | <0.300 | 0.300 | 04/22/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6930 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | |

| 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 | 04/22/2016 | ND | 188 | 93.9 | 200 | 8.09 | |
| DRO >C10-C28 | 180 | 10.0 | 04/22/2016 | ND | 217 | 109 | 200 | 11.4 | |

Surrogate: 1-Chlorooctane 73.0 % 35-147

Surrogate: 1-Chlorooctadecane 88.1 % 28-171

Sample ID: S - 3 0' (H600871-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1840 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2016
Reported: 04/22/2016
Project Name: GANDI #22
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S - 4 0' (H600871-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S - 4 0.25' (H600871-07)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 592 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S - 5 0' (H600871-08)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3360 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S - 5 0.25' (H600871-09)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 3280 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | | |

Sample ID: S - 6 0' (H600871-10)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 592 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|-----------------|---------------------|---------------|
| Received: | 04/21/2016 | Sampling Date: | 04/20/2016 |
| Reported: | 04/22/2016 | Sampling Type: | Soil |
| Project Name: | GANDI #22 | Sampling Condition: | Cool & Intact |
| Project Number: | 700794.186.01 | Sample Received By: | Jodi Henson |
| Project Location: | EDDY COUNTY, NM | | |

Sample ID: S - 6 0.25' (H600871-11)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1280 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S - 7 0' (H600871-12)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 400 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: S - 7 0.25' (H600871-13)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 576 | 16.0 | 04/22/2016 | ND | 416 | 104 | 400 | 3.92 | |

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-------|--|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
| 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 |
| ** | 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 |

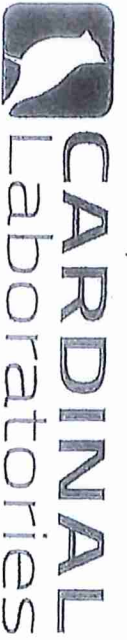
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



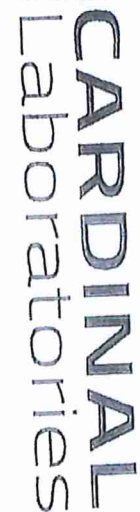
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 2

| | | | | | |
|--|-------------|---|--------------|---|------|
| Company Name: Talon/LPE | | P.O. #: | | ANALYSIS REQUEST | |
| Project Manager: Kim Wilson | | Company: Talon/LPE | | | |
| Address: 408 W. Texas Ave. | | Attn: | | | |
| City: Artesia | | State: NM Zip: 88210 | | | |
| Phone #: 575-746-8768 | | Fax #: 575-746-8905 | | | |
| Project #: 70094186.01 | | Project Owner: Deann | | | |
| Project Name: Bandi 32 | | City: | | | |
| Project Location: Eddy Co | | State: | | | |
| Sample Name: Kim Wilson | | Phone #: | | | |
| Fax #: | | Zip: | | | |
| FOR LAB USE ONLY | | PRESERV | | SAMPLING | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | DATE TIME | |
| HL00871 | | GROUNDWATER | WASTEWATER | | |
| | | SOIL | OIL | | |
| | | SLUDGE | OTHER : | | |
| | | ACID/BASE: | ICE / COOL | | |
| | | OTHER : | | | |
| 1 | 5-1 0' | | | 9/30/16 | 9:15 |
| 2 | 5-1 0.5' | | | 9/17 | |
| 3 | 5-2 0' | | | 9:28 | |
| 4 | 5-2 0.5' | | | 9:25 | |
| 5 | 5-3 0' | | | | |
| 6 | 5-4 0' | | | | |
| 7 | 5-4 0.35' | | | | |
| 8 | 5-5 0' | | | | |
| 9 | 5-5 0.35' | | | | |
| 10 | 5-6 0' | | | | |
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| Relinquished By: Kim Wilson | | Received By: Bob Bess | | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: | |
| Date: 9/30/16 | | Time: 12:05 | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: | |
| Delivered By: Bob Bess | | Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | CHECKED BY: (Initials) | |
| Sampler - UPS - Bus - Other: | | 5:20c | | Push !! | |

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326
collected 5:30c #54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 2 of 2

Company Name: Talon/LPE

Project Manager: Kim D. Lison

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 700794.186.01

Project Name: Gardi 22

Project Location: Eddy 444

Sample Name: Shim 11/15/01

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | PRESERV. | SAMPLING | DATE / TIME | |
|----------|--------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|----------|----------|-------------|--|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | | | | |
| W000871 | 3-6 0.25' | G | 1 | | | | | | | | | | 4/20/16 | |
| | 12 5-7 0' | G | 1 | | | | | | | | | | | |
| | 13 5-7 0.25' | G | 1 | | | | | | | | | | | |

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Relinquished By: [Signature] **Date:** 4/20/16 **Received By:** [Signature] **Date:** 4/20/16

Relinquished By: [Signature] **Date:** 4/20/16 **Received By:** [Signature] **Date:** 4/20/16

Delivered By: (Circle One) **Sample Condition:** Cool Intact ☒ Yes ☐ No **Checked By:** [Signature]

Sampler: UPS - Bus - Other: **5.22**

REMARKS: Chlorides

Phone Result: ☐ Yes ☐ No **Add'l Phone #:**

Fax Result: ☐ Yes ☐ No **Add'l Fax #:**



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

May 06, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: GRANDI 22-3

Enclosed are the results of analyses for samples received by the laboratory on 05/04/16 15:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 05/04/2016
Reported: 05/06/2016
Project Name: GRANDI 22-3
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 05/04/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 0.5' (H600978-01)

| BTX 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | |
| Toluene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | |
| Total BTX | <0.300 | 0.300 | 05/05/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.6-140

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 400 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | |

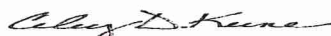
Surrogate: 1-Chlorooctane 66.3 % 35-147

Surrogate: 1-Chlorooctadecane 75.0 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/04/2016
 Reported: 05/06/2016
 Project Name: GRANDI 22-3
 Project Number: 700794.186.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-8 1' (H600978-02)

| BTEX 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | |
| Toluene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | |
| Total BTEX | <0.300 | 0.300 | 05/05/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.6-140

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2640 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | |

Surrogate: 1-Chlorooctane 74.6 % 35-147

Surrogate: 1-Chlorooctadecane 80.6 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/04/2016
 Reported: 05/06/2016
 Project Name: GRANDI 22-3
 Project Number: 700794.186.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-8 2' (H600978-03)

| BTEx 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | |
| Toluene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | |
| Total BTEX | <0.300 | 0.300 | 05/05/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4880 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | |

Surrogate: 1-Chlorooctane 78.9 % 35-147

Surrogate: 1-Chlorooctadecane 80.8 % 28-171

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/04/2016
Reported: 05/06/2016
Project Name: GRANDI 22-3
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 05/04/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 3' (H600978-04)

| BTEX 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | |
| Toluene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 0.077 | 0.050 | 05/05/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | |
| Total BTEX | <0.300 | 0.300 | 05/05/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|-------------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4160 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | |
| DRO >C10-C28 | 11.7 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | |

Surrogate: 1-Chlorooctane 72.9 % 35-147

Surrogate: 1-Chlorooctadecane 75.3 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/04/2016
Reported: 05/06/2016
Project Name: GRANDI 22-3
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 05/04/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 4' (H600978-05)

| BTX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | |
| Toluene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | |
| Total BTX | <0.300 | 0.300 | 05/05/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PII) 101 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1920 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | |
| DRO >C10-C28 | 21.3 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | |

Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 96.1 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/04/2016
 Reported: 05/06/2016
 Project Name: GRANDI 22-3
 Project Number: 700794.186.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-8 5' (H600978-06)

| BTEX 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | |
| Toluene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 0.057 | 0.050 | 05/05/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | |
| Total BTEX | <0.300 | 0.300 | 05/05/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|-------------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2080 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | |
| DRO >C10-C28 | 21.5 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | |

Surrogate: 1-Chlorooctane 68.5 % 35-147

Surrogate: 1-Chlorooctadecane 68.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/04/2016
 Reported: 05/06/2016
 Project Name: GRANDI 22-3
 Project Number: 700794.186.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-8 6' (H600978-07)

| BTEx 8021B | | | mg/kg | | | | | | | | Analyzed By: MS | |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|--|-----------------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | | | |
| Benzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | | | | |
| Toluene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | | | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | | | | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | | | | |
| Total BTEX | <0.300 | 0.300 | 05/05/2016 | ND | | | | | | | | |

Surrogate: 4-Bromofluorobenzene (PII) 98.8 % 73.6-140

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 2400 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | | |

Surrogate: 1-Chlorooctane 76.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/04/2016
Reported: 05/06/2016
Project Name: GRANDI 22-3
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 05/04/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 7' (H600978-08)

| BTEX 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/06/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | |
| Toluene* | <0.050 | 0.050 | 05/06/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/06/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 05/06/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | |
| Total BTEX | <0.300 | 0.300 | 05/06/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 73.6-140

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2760 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | |


Surrogate: 1-Chlorooctane 81.9 % 35-147

Surrogate: 1-Chlorooctadecane 86.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/04/2016
Reported: 05/06/2016
Project Name: GRANDI 22-3
Project Number: 700794.186.01
Project Location: EDDY COUNTY, NM

Sampling Date: 05/04/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 8' (H600978-09)

| BTEX 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.88 | 93.8 | 2.00 | 0.797 | |
| Toluene* | <0.050 | 0.050 | 05/05/2016 | ND | 1.79 | 89.5 | 2.00 | 3.11 | |
| Ethylbenzene* | 0.059 | 0.050 | 05/05/2016 | ND | 1.62 | 81.1 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2016 | ND | 5.05 | 84.2 | 6.00 | 2.67 | |
| Total BTEX | <0.300 | 0.300 | 05/05/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|-------------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3240 | 16.0 | 05/05/2016 | ND | 400 | 100 | 400 | 3.92 | |

| 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 | 05/05/2016 | ND | 177 | 88.5 | 200 | 6.25 | |
| DRO >C10-C28 | 34.7 | 10.0 | 05/05/2016 | ND | 176 | 87.8 | 200 | 0.0182 | |

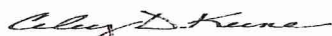
Surrogate: 1-Chlorooctane 78.1 % 35-147

Surrogate: 1-Chlorooctadecane 59.6 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

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

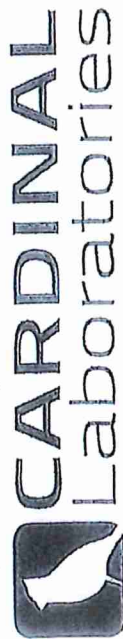
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name: Talon/LPE | | P.O. #: | | Company: Talon/LPE | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------|-----------------------------|--|--------------------------|--|------------------|--|-----------|--|------------|--|-----------------------|--|---------------------|--|-------------------------|--|---------------------|--|----------|--|--------|--|--------|--|----------|--|-------------|--|------------|--|------|--|--------------|--|--------------------|--|
| Project Manager: Kimberly Wilson | | Address: 408 W. Texas Ave. | | Attn: | | City: Artesia | | State: NM | | Zip: 88210 | | Phone #: 575-746-8768 | | Fax #: 575-746-8905 | | Project #: 70094-186-01 | | Project Owner: Juan | | City: | | State: | | Zip: | | Phone #: | | Fax #: | | | | | | | | | |
| Project Name: Grandi 22-3 | | Project Location: Eddy City | | Sampler Name: Kim Wilson | | FOR LAB USE ONLY | | MATRIX | | PRESERV | | SAMPLING | | DATE | | TIME | | OTHER: | | ICE/COOL | | OTHER: | | SLUDGE | | OIL | | GROUNDWATER | | WASTEWATER | | SOIL | | # CONTAINERS | | (G) RAB OR (C) OMP | |
| Lab I.D. | Sample I.D. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H600978 | 1 5-8 0.5' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 5-8 1' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 5-8 2' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 5-8 3' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 5-8 4' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 5-8 5' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 5-8 6' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 5-8 7' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 5-8 8' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Relinquished By: | | Received By: | | Date: | | Time: | | Sample Condition | | Checked By: | | Remarks: | |
|------------------------------|--|--------------|--|--------|--|--------|--|------------------|--|-------------|--|-----------------------------------|--|
| Kim Wilson | | Jodi Hanson | | 5/4/16 | | 12:00P | | Cool intact | | JH | | TPH & GREX added as per Kimberly. | |
| Delivered By: (Circle One) | | Jodi Hanson | | 5/4/16 | | 3:22P | | Cool intact | | JH | | Rush | |
| Sampler - UPS - Bus - Other: | | 5:42P | | | | | | | | | | | |

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

corrected 5:50P