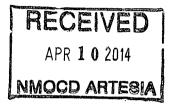


April 9, 2014

Oil Conservation Division District 2 – Artesia 811 S. First St. Artesia, NM 88210

Re: Sly Hawk State #5 30-015-35103 Sec. 3, T25S-R28E Eddy County, NM



Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated 3/14/14.

Background

The release was due to a 3" polyline weld failure which impacted an area of approximately 2'wide X 480' long. The initial release consisted of 130 bbls of produced water with 125 bbls recovered. The affected section of polyline was cut out and replaced.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified as a site ranking of Ten (~50'-75').

Soil Assessment and Analytical Results

Delineation samples were taken along the impacted area labeled as S1, S2, S3, and S4 on the attached Site Diagram. Sampling was halted at depths of 5' (S4) and 9' (S1, S2, S3) due to the inability to delineate past the natural bedrock formations in the area. A Sample Summary Table and a copy of the Analytical Results are attached for your consideration.

Sample results show TPH and BTEX levels to be non-detect with elevated chloride concentrations for S1 to a depth of 3', S2 and S3 to a depth of 5', and S4 to a depth of 1'. Below these depths, chloride concentrations drop significantly and pose no threats to root development and groundwater.

NMOCD April 9, 2014 Page 2

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Work Plan

COG proposes that S1 be excavated to a depth of 3', S2 and S3 excavated to a depth of 5', and S4 to a depth of 1'. All impacted material will be hauled and disposed at a NMOCD approved facility. Backfill of the excavation would consist of packed caliche with a 1' top soil cover. This combination of soil media would aide in the immobilization of chlorides and promotes a healthy seed bed for the re-growth of the impacted area. The bedrock encountered during sampling acts as a natural barrier to also aide in the prevention of chloride leaching. The top soil would also be packed with enough loft to prevent future pooling over the impacted area. A copy of the NRCS Soil Survey for this area has been attached for your information.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact my with any questions or concerns at (575) 748-6933

Sincerely,

Ane Counced

Lupe Carrasco

Bratcher, Mike, EMNRD

From: Sent: To: Cc: Subject: Guadalupe Carrasco <GCarrasco@concho.com> Thursday, April 10, 2014 2:04 PM Bratcher, Mike, EMNRD Robert McNeill Sly Hawk State #5

Mike,

As per our conversation on April 10, 2014, in regards to the Sly Hawk State #5 proposed work plan, COG Operating LLC was presented with two options towards the amendment of the plan submitted.

Option 1: Delineate the impacted area further thru bedrock and develop a remediation proposal based on results. **Option 2**: Accept the proposed work plan for the excavation of S1 to a depth of 3' and S2 & S3 to a depth of 5'. Change excavation of S4 from a depth of 1' to excavation to a depth of 5'.

COG will accept option 2 and continue with the proposed work plan with the amendment of excavating S4 to a depth of 5'.

Please let me know if you have any questions or concerns.

Thanks!

Lupe Carrasco

Environmental Coordinator Concho Resources Cell: <u>575.725.0787</u> Office: <u>575.748.6933</u> gcarrasco@concho.com

2208 W. Main St. Artesia , NM 88210

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Sample Summary Table

Sly Hawk State #5

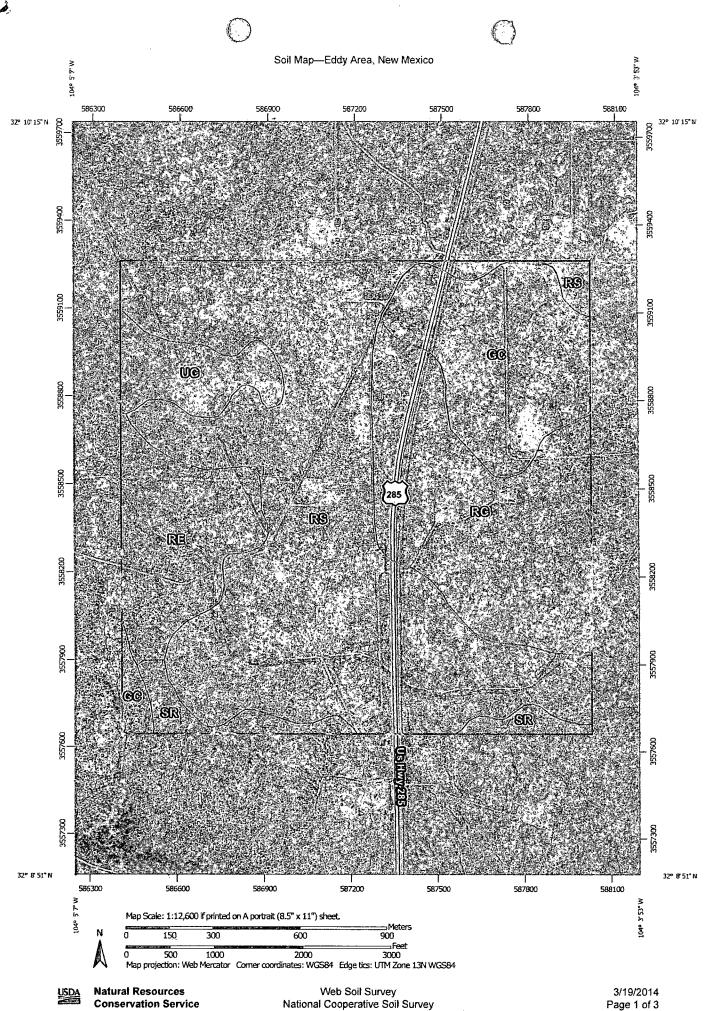
Site Ranking: Ten

Depth to GW per Chevron Trend Maps: 50-75'

| - S1 | DRO | GRO | TPH | BTEX | Cl- |
|------------------|--------------|-----------|----------|-------------|----------|
| 1' | | | ND | ND | 3400 |
| 3' | | | ND | ND | 2000 |
| 5' | | | ND | ND | 1250 |
| \$2 ₁ | D.RO) | GRO | TPH | BTEX | CI- |
| 1' | | | ND | ND | 17400 |
| 3' | | | ND | ND | 10500 |
| 5' | | | ND | ND | 7040 |
| 7' | | | | | 3840 |
| 9' | | | | | 1800 |
| S3 | DRO | GRO | TPH | BTEX | CI- |
| 1' | | | ND | ND | 8320 |
| 3' | | | ND | ND | 9200 |
| 5' | | | ND | ND | 4080 |
| 7' | | | | | 400 |
| 9' | | | | | 2600 |
| S4 | DRO | GRO | TPH | втех | Cl- |
| 1' | | | ND | ND | 5920 |
| 3' | | | ND | ND | 1500 |
| 5' | | | ND | ND | 2200 |
| Bolo | l values exc | eed RRALs | per NMOC |) Guideline | s (1993) |

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Web Soit Survey National Cooperative Soil Survey

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| | Eddy Area, New | Mexico (NM614) | |
|-----------------------------|---|---|----------------|
| Map Unit Symbol | Map Unit Name | THE OWNER AND A DESCRIPTION OF THE OWNER AND A DESCRIPTION OF THE OWNER ADDRESS OF THE OWNER | Percent of AOI |
| GC | Gypsum land-Cottonwood complex, 0 to 3 percent slopes | · 91.6 | 14.1% |
| RE | Reagan-Upton association, 0 to 9 percent stopes | 63.5 | 9.7% |
| RG | Reeves-Gypsum land complex, 0 to 3 percent slopes | 130.6 | 20.1% |
| RS | Russler loam, 1 to 3 percent slopes | 314.8 | 48.3% |
| SR | Stony and Rough broken land | 21.4 | 3.3% |
| UG | Upton gravelly loam, 0 to 9 percent slopes | 29.5 | 4.5% |
| Totals for Area of Interest | | 651.3 | 100.0% |





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RS—Russler loam, 1 to 3 percent slopes

Map Unit Setting

Elevation: 3,000 to 3,800 feet *Mean annual precipitation:* 10 to 14 inches *Mean annual air temperature:* 60 to 64 degrees F *Frost-free period:* 210 to 220 days

Map Unit Composition

Russler and similar soils: 100 percent

Description of Russler

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Alluvium

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 60 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Gypsum, maximum content: 40 percent
Maximum salinity: Slightly saline to moderately saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water capacity: Low (about 4.4 inches)

Interpretive groups

Farmland classification: Not prime farmland Land capability classification (irrigated): 3e Land capability (nonirrigated): 7e Hydrologic Soil Group: C Ecological site: Loamy (R042XC007NM)

Typical profile

0 to 11 inches: Loam 11 to 45 inches: Clay loam



March 27, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SLYHAWK #5

Enclosed are the results of analyses for samples received by the laboratory on 03/17/14 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 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 (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,

Celing D. Keine

Celey D. Keene Lab Director/Quality Manager





COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S1 - 1' (H400792-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | _ | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/18/2014 | ND | 2.20 | 110 | 2.00 | 0.692 | |
| Toluene* | <0.050 | 0.050 | 03/18/2014 | ND | 2.07 | 104 | 2.00 | 0.762 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/18/2014 | ND | 2.01 | 101 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 03/18/2014 | ND | 5.82 | 97.0 | 6.00 | 0.549 | |
| Total BTEX | <0.300 | 0.300 | 03/18/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 9 | 6 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3400 | 16.0 | 03/20/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 228 | 114 | 200 | 6.70 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 225 | 112 | 200 | 1.08 | |
| Surrogate: 1-Chlorooctane | 108 % | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 114 % | 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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Celey E. Kune

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S1 - 3' (H400792-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/18/2014 | ND | 2.20 | 110 | 2.00 | 0.692 | |
| Toluene* | <0.050 | 0.050 | 03/18/2014 | ND | 2.07 | 104 | 2.00 | 0.762 | |
| Ethylbenzene* | < 0.050 | 0.050 | 03/18/2014 | ND | 2.01 | 101 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 03/18/2014 | ND | 5.82 | 97.0 | 6.00 | 0.549 | |
| Total BTEX | <0.300 | 0.300 | 03/18/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 104% | 6 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2000 | 16.0 | 03/20/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 222 | 111 | 200 | 1.06 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 212 | 106 | 200 | 0.464 | |
| Surrogate: 1-Chlorooctane | 103 % | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 % | 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S1 - 5' (H400792-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/18/2014 | ND | 2.20 | 110 | 2.00 | 0.692 | |
| Toluene* | <0.050 | 0.050 | 03/18/2014 | ND | 2.07 | 104 | 2.00 | 0.762 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/18/2014 | ND | 2.01 | 101 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 03/18/2014 | ND | 5.82 | 97.0 | 6.00 | 0.549 | |
| Total BTEX | <0.300 | 0.300 | 03/18/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 9 | % 89.4-12 | 6 | 1 | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1250 | 16.0 | 03/20/2014 | ND | 400 | 100 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 222 | 111 | 200 | 1.06 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 212 | 106 | 200 | 0.464 | |
| Surrogate: 1-Chlorooctane | 107 9 | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 114 9 | 63.6-15 | | | | | | | |

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Celeg Di Kune

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 1' (H400792-06)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.20 | 110 | 2.00 | 0.692 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.07 | 104 | 2.00 | 0.762 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.01 | 101 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 03/19/2014 | ND | 5.82 | 97.0 | 6.00 | 0.549 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 9 | 6 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 17400 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 222 | 111 | 200 | 1.06 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 212 | 106 | 200 | 0.464 | |
| Surrogate: 1-Chlorooctane | 114 9 | 65.2-14 | 0 | | | | <u> </u> | | |
| Surrogate: 1-Chlorooctadecane | 114 % | 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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Celeg Di Keene

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 3' (H400792-07)

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| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.20 | 110 | 2.00 | 0.692 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.07 | 104 | 2.00 | 0.762 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.01 | 101 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 03/19/2014 | ND | 5.82 | 97.0 | 6.00 | 0.549 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 104 9 | % 89.4-120 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10500 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 222 | 111 | 200 | 1.06 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 212 | 106 | 200 | 0.464 | |
| Surrogate: 1-Chlorooctane | 108 9 | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 117 9 | 63.6-15 | | | | | | | |

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*=Accredited Analyte

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Celeg Di Kune

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 5' (H400792-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.20 | 110 | 2.00 | 0.692 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.07 | 104 | 2.00 | 0.762 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.01 | 101 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 03/19/2014 | ND | 5.82 | 97.0 | 6.00 | 0.549 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 9 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | 'kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7040 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 222 | 111 | 200 | 1.06 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 212 | 106 | 200 | 0.464 | |
| - Surrogate: 1-Chlorooctane | 88.7 | % 65.2-14 | 10 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 101 | 63.6-15 | ., | | | | | | |

Sample ID: S2 - 7' (H400792-09)

| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3840 | 16.0 | 03/26/2014 | ND | 416 | 104 | 400 | 0.00 | |

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Celez Kune

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S2 - 9' (H400792-10)

| Chloride, SM4500Cl-B | 3 mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|---------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1800 | 16.0 | 03/26/2014 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: S3 - 1' (H400792-11)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.20 | 110 | 2.00 | 0.692 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.07 | 104 | 2.00 | 0.762 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.01 | 101 | 2.00 | 1.19 | |
| Total Xylenes* | <0.150 | 0.150 | 03/19/2014 | ND | 5.82 | 97.0 | 6.00 | 0.549 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 % | 6 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8320 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 225 | 112 | 200 | 5.05 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 213 | 106 | 200 | 2.35 | |
| Surrogate: 1-Chlorooctane | 104 % | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 % | 63.6-15 | 4 | | | | | | |

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S3 - 3' (H400792-12)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.39 | 119 | 2.00 | 3.72 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.30 | 115 | 2.00 | 4.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.27 | 114 | 2.00 | 6.01 | |
| Total Xylenes* | <0.150 | 0.150 | 03/19/2014 | ND | 6.62 | 110 | 6.00 | 6.80 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 9 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Ci-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9200 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 225 | 112 | 200 | 5.05 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 213 | 106 | 200 | 2.35 | |
| Surrogate: I-Chlorooctane | 104 9 | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 9 | 63.6-15 | 4 | | | | | | |

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Celez Kune

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S3 - 5' (H400792-13)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.39 | 119 | 2.00 | 3.72 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.30 | 115 | 2.00 | 4.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2,27 | 114 | 2.00 | 6.01 | |
| Total Xylenes* | <0.150 | 0.150 | 03/19/2014 | ND | 6.62 | 110 | 6.00 | 6.80 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 % | 6 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4080 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 225 | 112 | 200 | 5.05 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 213 | 106 | 200 | 2.35 | |
| Surrogate: 1-Chlorooctane | 114 % | 65.2-14 | 10 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 1169 | 6 63.6-15 | 1 | | | | | | |

Sample ID: S3 - 7' (H400792-14)

| 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 | 03/26/2014 | ND | 416 | 104 | 400 | 0.00 | |

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Celey E Keene

Celey D. Keene, Lab Director/Quality Manager



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| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S3 - 9' (H400792-15)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2600 | 16.0 | 03/26/2014 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: S4 - 1' (H400792-16)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.39 | 119 | 2.00 | 3.72 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.30 | 115 | 2.00 | 4.96 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.27 | 114 | 2.00 | 6.01 | |
| Total Xylenes* | <0.150 | 0.150 | 03/19/2014 | ND | 6.62 | 110 | 6.00 | 6.80 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL 102 % 89.4-126

| Chloride, SM4500Cl-B | mg/kg | Analyzed By: AP | |
|----------------------|-------|-----------------|--|
| | | | |

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 5920 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 225 | 112 | 200 | 5.05 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 213 | 106 | 200 | 2.35 | |
| Surrogate: 1-Chlorooctane | 106 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 9 | 63.6-15 | 4 | | | | | | |

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Celey E. Kune

Celey D. Keene, Lab Director/Quality Manager



| COG OPER | ATING |
|-----------|----------|
| LUPE CARF | ASCO |
| P. O. BOX | 1630 |
| ARTESIA N | M, 88210 |
| Fax To: | NONE |

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | . , | |

Sample ID: S4 - 3' (H400792-17)

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| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------------------------------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Analyte Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.39 | 119 | 2.00 | 3.72 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.30 | 115 | 2.00 | 4.96 | |
| Ethylbenzene* | <0.050 | 0.050 0.050 03 | | ND | 2.27 | 114 | 2.00 | 6.01 | |
| Total Xylenes* | <0.150 | 0.150 | 03/19/2014 | ND | 6.62 | 110 | 6.00 | 6.80 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 105 9 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Analyte Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1500 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By:ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 225 | 112 | 200 | 5.05 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 213 | 106 | 200 | 2.35 | |
| Surrogate: 1-Chlorooctane | 100 9 | 65.2-14 | 0 | | | | | | |
| | | | | | | | | | |

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

| Received: | 03/17/2014 | Sampling Date: | 03/12/2014 |
|-------------------|------------|---------------------|---------------|
| Reported: | 03/27/2014 | Sampling Type: | Soil |
| Project Name: | SLYHAWK #5 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S4 - 5' (H400792-18)

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| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------------------------------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Analyte Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.39 | 119 | 2,00 | 3.72 | |
| Toluene* | <0.050 | 0.050 | 03/19/2014 | ND | 2.30 | 115 | 2.00 | 4.96 | |
| Ethylbenzene* | <0.050 | 0.050 0.050 03 | | ND | 2.27 | 114 | 2.00 | 6.01 | |
| Total Xylenes* | <0.150 | 0.150 0.150 03 | | ND | 6.62 | 110 | 6.00 | 6.80 | |
| Total BTEX | <0.300 | 0.300 | 03/19/2014 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 106 9 | 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B mg/kg | | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2200 | 16.0 | 03/20/2014 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: ms | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/19/2014 | ND | 225 | 112 | 200 | 5.05 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/19/2014 | ND | 213 | 106 | 200 | 2.35 | |
| Surrogate: 1-Chlorooctane | 107 | 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 109 | 63.6-15 | 4 | | | | | | |

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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| 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 Di Kune

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 | (675) 393-2326 PAX (575) 393-24 | +10 | | | | | | Eta | a share | 1515151 | | 19:4: | . 70 | | 5 | | | | A \$1/A | I Vel | S RE | SIL | 87 | | | |
|--|--|--------|-----------|----------|----------|---------------------------------------|---|---------------|---------|--|--|--------------|--|-------------------------------|-----------------------|------------|------------|------------|----------|--------------------------|-----------|----------|---------|------------|-------------|----------|
| | | | | | NJ | •••••• | ******* | -4 | | | ы | LL | . 10 | | <u>.</u> | | | r i | APIA | LIGI | o re T | | 31 1 | 1 | 1 | T |
| Project Manage | r: Lupe Carrasco | | | | | | | P | .0. | ¥: | | | | | 4 | : | • ; | | l. | | | | | ľ | | |
| Address: 220 | 8 West Main | | | | | | | C | om | pan | ý; | co | C Opera | ting LLC | | | | | | | | | | | | ŀ |
| City: Artesia | State: NM | | Zip | | 8 | 821 | <u>0</u> | A | itn: | | | Ro | obert Mch | lolii |] | | | | | 1 | ľ | | | | 1 | ŀ |
| Phone #: | (575) 748-6940 Fax #: | | | | | | | A | .ddr | ess | | | 600 W III | inois | | | . ' | | ļ. | ŀ | | | | ; | - - - | ŀ |
| Project #: | Project Owner | 7: | | | | | | c | lity: | | · | | Midland | , | | | | | ĺ | | . : | | | ľ | | 1 |
| Project Name: | | | | | | | | 1 | tate | •••••••• | X | Zic | p: 7970 | 1 | | | ~ | | | | | | | | 1 | |
| Project Location | | | | | | | ******** | - | | | | | 221-0388 | 1 | | | | | · | | | | | | | 1: |
| Sampler Name: | Lupe Carrasco | • | | | | | | | ax.# | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | des anti- | | | | 1 | | | | | | | | | | | l |
| FOR LABUSE ONLY | Lupe Canasco | T | T | r | 1 | MAT | RIX | 12 | | | ERV. | 1 | SAMPLI | VG | | | | | | | 1 | | ŀ | | | |
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VE_CASE NOTE: Labelity and Damages. Cardinal's labelity and client's exclusive remedy for any claim arking whether based in contract or tor, shall be irreted to the amount pixel by the client for the analyses. All claims, including those for negligence and any other cause whatscover shall be deemed waiked unless made in writing and received by Cardinal within 30 days office completion of the applicable service. In no event shall Cardinal be liable for incident or consequental damages, including without finitation, business premupicing, items of use, or loss of profile incurved by client, is autistations,

affiliates or successors arriving out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. O Yes D No |Add'l Phone #: Phone Result: Relinquished By: Dato: Received By: Fax Result: O Yes □ No Add'I Fax #: only run 1:3',5' Hold 7',8,9' till final results. gearrascoaconcho com Time: Date: Received By Rollnaulshod By: Timo: CHECKED BY: Sample Condition Delivered By: (Circle One) Cool Intact Ves Yes Sampler - UPS - Bus - Other: 125-078 PORM-000 R 2.0 † Cardinal cannot accept verbal charges. Please fax written changes to 575-393-2476 #54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16

101 East Marland, Hobbs, NM 86240 (575) 393-2326 FAX (575) 393-2476

BILL TO ANALYSIS REQUEST COG Operating LLC Company Name: Project Manager: Lupe Carrasco P.O. #: COG Operating LLC Addrass: 2208 West Main Company: 88210. **Robert McNeill** City: Artesia State: NM Zio Attn: Phone #: Address: 600 W Illinois (575) 748-6940 Fax #: City: Midland Projoct #: Project Owner: #5 Project Name: Slyhawk State: TX Zip: 79701 Phone #: (432) 221-0388 **Project Location:** Fax #: Sampler Name: Lupe Carrasco SAMPLING MATRIX PRESERV. FOR LAB USE ONLY (G)RAB OR (C)OMP GROUNDWATER # CONTAINERS WASTEWATER Sample I.D. ICE / COOL Lab I.D. ACID/BASE: OIL SLUDGE OTHER : Chloride OTHER BTEX SOL TPH H400792 DATE TIME S3 - 1' X X 3/12/14 10:20 AM 1 X х 11 ٠X 12 S3 - 3' X X 1 3/12/14 10:20 AM X X х 13 S3 - 5 X. X 10:20 AM 3/12/14 × 1 х х 1 14 53 - 7' X X 4 1 3/12/14 10:20 AM X 15 \$3.9 X X 3/12/14 10:20 AM ٠X 1 10 \$4-1 X X 10:20 AM 1 3/12/14 х X х 17 54 - 3' X Х 3/12/14 10:20 AM X х 1 X 1 18 84 - 5 х 10:20 AM 1 1 X 3/12/14 X X X X 19-194-7 1 3/12/14 10:20 AM 1 × 20154 ~ 3/12/14 10:20 AM 4 * 1

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