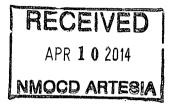


April 9, 2014

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

الخ

## 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

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information herein, is prohibited. If you received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

1

# Sample Summary Table

# Sly Hawk State #5

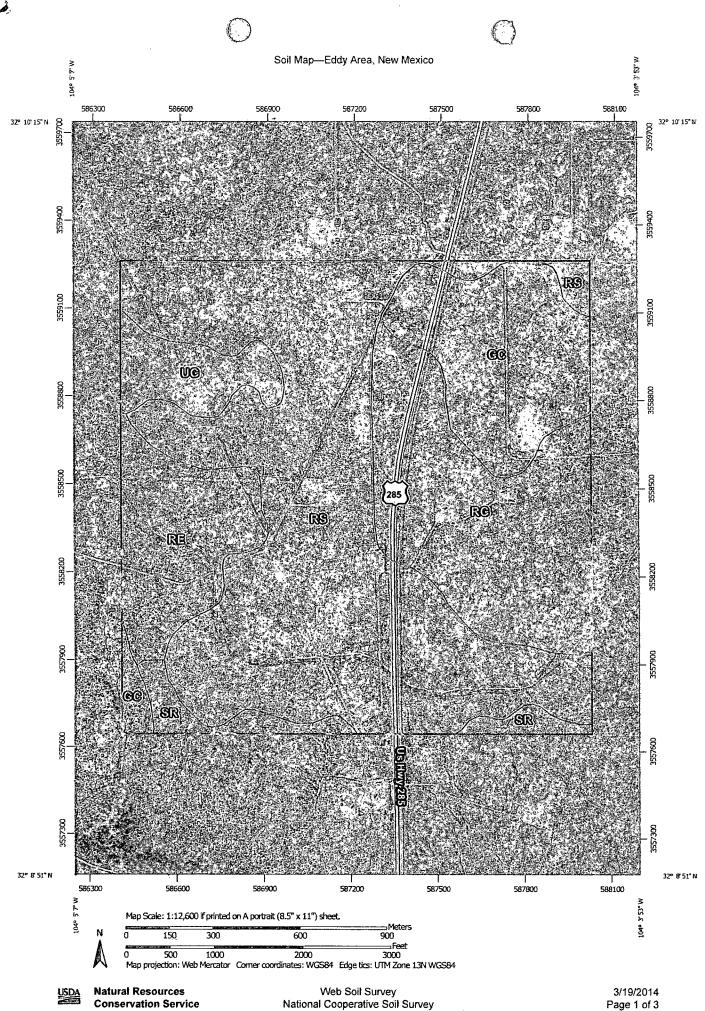
Site Ranking: Ten

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 <sub>1</sub>	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)

}





z

Web Soit Survey National Cooperative Soil Survey

*م* 

1

	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%





j

## 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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						

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsbeaver shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incidented by client, its substituaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall note be reproduced except in full with writen approval of Cardinal Laboratories.

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							

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirry (30) days after completion of the applicable service. In no event shall Cardinal we liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such chain is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced exception in full with writen approval of Cardinal Laborations.

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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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)

.

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							

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwses. Results relate only to the samples identified above. This reproduced exception in full with mitten approval of Cardinal Laboratories,

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	

#### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incrured by client, its subsidiaries, affiliates or successoria arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such cliam is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writen approval of Cardinal Laboratories.

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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and chent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for neglogence and any other cause whitsoever shall be deemed waived unless made in writing and received by client, it's variable and any other cause whitsoever shall be deemed waived unless made in writing and received by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such cliaims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced exception in full with intern approval of Cardinal Laboratories.

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	

#### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such climins based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with writen approval of Cardinal Laboratories.

Celey E 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: 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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by claimal, actional within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples claimified above. This reproduced exception full ubby mitignal laborations.

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)

٠

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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successons arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with writen approval of Cardinal Laboratories.

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)

.

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						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



.

.

## **Notes and Definitions**

.

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below $6^{\circ}\text{C}$
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, busness interruptions, loss of use, or loss of profits incidentified above. This reproduced exception for the applicable service.

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			
		a'				· · · · · · · · · · · · · · · · · · ·				1	1		T	addireann i seannar e a a a a	ľ				<b>.</b>	1						
		Į Š	ERS	E.	α				ľ	-	- the second sec		a de la companya de l		ľ											1
Lab I.D.	Sample I.D.	0	Ę.	M	ATE			Self-shielder	ú		:   ·	ľ			ľ.					ŀ						
Eap 1. P.	aquilare i.m.	BOR	E	2	E		le	1	BAS	Ì	ά		a caracterization of the second se				ide						Į.		:	
H400792		(G)RAB	# CONTAIN	õ	ASI	g	OIL		İŝ	) ju	Ĩ	ŧ,	DATE	TIME	BTEX	Hdi	Chloride							<b>.</b> .		ľ
Annany - which - mapping an under successive and the second		1×	<u>*</u>	<u>o</u>	2	S	0 0		2	( <u> </u> }	(10) /1				and the second				<u> </u>	-			Ľ			┢──
	S1 - 1		1			X		-			4		/12/14	10:20.AM		<b>X</b> .	<b>X</b> .					1				
	S1 - 3'					X	_			ang mare	<u>(</u>			10:20 AM		<u>×</u> .	X				· [	[:				<b> </b>
Construction of the second s	S15	1				X					<u>c </u>	1		10:20 AM		<u> </u>	X	<u>.</u>				[;			:	
	<u>51-7'</u>	1	11	<b> </b>		X		_		-	<u>( </u>		ý na star star star star star star star sta	10:20 AM	1 month in the second			·						-		
and the second	S1 -:9 <sup>1.</sup>	1	1	<b> </b>	<u> </u>	X					<u>(</u>	1		10:20 AM		X		<b>b</b> .		-	.					
	<u>52:- 1'</u>	1	1	<b> </b>		X				n de financia	<u> </u>	-	Energy and the second	10:20 AM	1	<u> </u>	X		<u> </u>		-	·		· · · ·		
ware and the second	S2 - 3'	1	1			X		-	_		( <u> </u>		and the second sec	10:20 AM		<b>X</b> .	X.		l		<u> </u>					
And an and a second	S2 - 5'	11	1	<b> </b>	<u> </u>	X		-		migin	(	A Testanter		10:20 AM		<u>x</u>	X	·		i Maria ang dina paga		<b> </b>			•••••	ļ
-Annual and and and and an and a state of the state of th	<u> S2 - 7'</u>	1	1			X			_[_	ستعاقب	<u>&lt; </u>	. I municipa	in manufacture of the second	10:20 AM		<b></b>	X			_						
ID	S2 - 9' d Damanes, Cardinal's liability and client's cardinity remedy for a	1	1			X	, in the second s	1	1		(			10:20 AM			<b>X</b> '					L				

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

PLEASE NOVE: Lustery and Danages. Cardinal's labelity and client's exclusive remedy for any claim arising whether based in contract or fart, stull be limited to the anount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be doorned waived unless made is writing and received by Cardinal which 30 days after completion of the applicable service. It is even shall Cardinal to failed for incidential or consequential damages including whother that is not start and any other cause whatsoever shall be doorned waived unless made is writing and received by Cardinal which 30 days after completion of the applicable service. It no event shall Cardinal to failed for incidential or consequential damages including whother internations, base of used to an out of the above that of masses of profile incurred by client. Is used an international waites and the start was and to an avera the damages of the based of the start damages and the start was and the start was that of masses or profile incurred by client.

analytics of successors analytics at or or resident to the personnance of services nervolves of vitranet social testing or analytic on any or one and reasons or children at the service services nervolves of services nervolves of the services of the services nervolves of the ser				
Relinguished By:	Date: / / Received By:			Phone #:
	3/17/14 Acres	Fax Result: D	Yes O No Add'l	Fax #:
170	Timo:	IA REMARKS:		
1 Sunday	11.45 Child Kiewal	$\mathcal{V}$		
Ballnaulshad By:	Date: Received By:			
		i.		
	Time:			
		1		
Delivered By: (Circle One)	Sample Condition   CH	CKED BY:		
Deliverad BA. Tourcle Oliet	Paul Jakani	distant 1		
Sampler - UPS - Bus - Other:	200 1000	di la		
Sampler OPS - Bus - Outer.	J.OC NO NO	NN I	*	
PORM-000 R 20			and the second	

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476