

August 4, 2015

#5B23978-BG6

NMOCD District II 1301 W Grand Ave ArtesiaNM88210

SUBJECT: FINAL CLOSURE REPORT FOR INCIDENT 2RP-2918 SCARED HAWK STATE COM #1, EDDY COUNTY, NEW MEXICO

Dear Ms. Patterson:

Souder Miller & Associates is pleased to submit the attached Final Closure Report of the remediation of the release site located on the Scared Hawk State Com #1 in Eddy County, New Mexico. The purpose of the Final Report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the closure of the release that occurred on New Mexico State Land Office property on March 08, 2015.

Souder, Miller & Associates (SMA) responded at the request of COG Operating to assess and delineate the release of production fluids associated with the Scared Hawk State Com #1 well location. The release was initially reported to NMOCD by COG Operating on March 25, 2015 and was a result of a flow line failure. The table below summarizes information regarding the release. Results of the assessment, delineation, and remedial activities follow in the attached closure report.

Tab	le 1: Release info	rmation and Site Ranl	king			
Name		Scared Hawk Sta	te Com #1			
	Incident Number	API Number	PI Number Section, Township, Rang		, Range	
Location	2RP-2918	30-015-35102	SW/NE (Unit A)	Section 4	T 25S, R 28E NMPM	
Estimated Date of Release	8-Mar-15					
Date Reported to NMOCD	25-Mar-15					
Reported by	Amanda Trujillo, COG Operating LLC					
Land Owner	New Mexico State Land Office					
Reported To	NM Oil Conservation Division (NMOCD)					
Source of Release	Flow line failure					
Released Material	Produced Wate	r				
Released Volume	30 bbls Produce	d Water				
Recovered Volume	5 bbls Produced	Water				
Net Release	25 bbls Produce	d Water				



Nearest Waterway	The Salt Draw is over one mile to the west of the location.
Depth to Groundwater	Estimated to be 41 feet
Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	20
SMA Response Dates	Initial: April 28, 2015 Mitigation Activities: July 6, 2015
Subcontractors	TCS
Disposal Facility	Lea Land, LLC
Estimated Yd ³ Contaminated Soil Excavated and Disposed	1,800 (Reported on Completed C-138)

Attached is a copy of the C-141 final located in Appendix B. For questions or comments pertaining to the release or the attached Closure Report please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES

str Weyant

Austin Weyant Project Scientist

Reviewed by:

Cynthia Gray, CHMM Senior Scientist

Scared Hawk State Com #1 Final Closure Report SMA Ref 5B23978 BG 6 8/04/15

FINAL CLOSURE REPORT FOR INCIDENT 2RP-2918

COG OPERATING LLC

SCARED HAWK STATE COM #1 API# 30-015-35102 SECTION 4, T25S R28E, NMPM EDDY COUNTY, NM



Prepared for: COG Operating LLC 2407 Pecos Ave Artesia, NM 88210 Prepared by: Souder, Miller & Associates 201 S. Halagueno Carlsbad, NM 88221 575-689-7040

August 4, 2015 SMA Reference 5B23978 BG6

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1.0 Introduction

On behalf of COG Operating LLC (COG), SMA has prepared this report that describes the assessment, initial delineation, and mitigation of a release associated with the Scared Hawk State Com #1 release site. The site is located in Section 4, T 25S, R 28E NMPM, Eddy County, New Mexico, on land owned by the State of New Mexico. Figure 1 illustrates the vicinity and location of the site.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 1 mile east of Salt Draw, in an area owned by the State with an elevation of approximately 3,000 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 100 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. One well is located within a one mile radius of the site. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is within the jurisdiction of NMOCD.

Based on the NMOCD Guidelines Ranking Criteria, this release location has been assigned a NMOCD ranking of 20 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates site ranking rationale.

3.0 Assessment and Initial Results

On June 18th, 2015, after receiving 811 clearance, SMA field personnel assessed the release area onsite with a backhoe, Photo Ionization Detector (PID), and a mobile chlorides titration kit. The potentially affected area was found to be approximately 150 feet long and 90 feet wide. The western extent of the spill path is over a high pressure gas line. In the rest of the site, delineation samples were taken to depths of seven feet bsg. Bottom hole samples were found to exhibit only background levels of all contaminants of concern at approximately 7 feet bsg on the eastern area of the spill. The western portion contained the highest concentration of contaminants at depths below seven foot bsg, due to the proximity to the point of failure of the flow line and site topography. For additional information on the initial soil results and site assessment, please refer to the NMOCD approved work plan (Soil Remediation Workplan for Incident 2RP-2918. Specific sample locations for all samples are depicted on Figure 2 (Sample Location Map) along with sampling details. Field screening results are noted in Table 2 in the appendices. All samples were collected and processed according to NMOCD soil sampling procedures. Because the spilled material was limited to produced water and field screening did not indicate the presence of petroleum, the samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Total Chlorides using EPA Method 300.0.

4.0 Soil Remediation Summary

SMA returned to the site on July 6, 2015 begin excavation of affected soils, with approval from area utilities owners via 811 and the NMOCD. SMA continuously guides the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and a calibrated PID. In the western area of the spill is a buried Kinder Morgan pipeline. No excavation occurred within that area due to safety concerns and request by Kinder Morgan. SMA worked with Kinder Morgan on excavation close to their high pressure gas line. Sample location

D1 shown in Figure 2, were taken as close to the pipeline as possible documenting the level of contamination in the soils left next to pipeline. Samples were taken in the sidewalls in the rest of the excavation to ensure contaminated soils had been removed in the horizontal extent. Sample location D1 and D2 are closure samples collected at three feet bsg in the excavation. Excavation was conducted to three feet bsg in the spill area to remove the soils affected by the release. An in-situ cap has been constructed within the excavation. The construction of the in-situ cap (Figure #3) has been designed to prevent both capillary and leaching movement of the brine affected soils contained beneath. Starting from three feet below surface grade, a plastic liner was added as a capillary break between the affected soils and the caliche cap. The cap consist of two feet of contaminant-free caliche material placed, and compacted. Then, a plastic liner was added along with hay above the compacted caliche cap to form an intrusion barrier. This barrier will prevent leaching and formation of deep root systems into the cap itself. Topsoil was placed on top of the cap. The plastic liner on both sides of the caliche cap will effectively break the communication of precipitation through the compacted cap. After excavation, installation of in-situ cap, and backfill, a minimum of 18 inches of topsoil and hay was added to help with contouring of the area and to promote vegetation growth. Approximately 1,800 cubic yards of contaminated soil was removed and replaced with the cap and clean backfill material to bring the excavated area to surface grade. The contaminated soil was transported for disposal at Lea Land, near Carlsbad, NM.

5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 20: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 100 ppm TPH. The release consisted of produced water and evidence of petroleum impacts was not found during the initial assessment and delineation.

Laboratory analytical results for all final closure samples collected were below NMOCD action levels for Benzene, BTEX, and TPH as well as below laboratory detection limits for the methods used. No further remedial activities are recommended.

Soil contaminant concentrations are illustrated in Figure 2. A summary of laboratory analytical results is included in Table 3. Laboratory reports are included in Appendix C.

Photo documentation is available by request.

6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment, verification of release stabilization, regulatory liaison, and preparation of this Remediation Workplan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant Project Scientist

Cynthia Gray, CHMM Senior Scientist

Figures:

Figure 1: Vicinity Map Figure 2: Detailed Site and Sample Map Figure 3: In-situ Cap and Bio barrier Design Figure 4: Electrical Conductivity Correlation to EPA Method 300 Graph

Tables:

Table 1: Release Information and Site Ranking Table 2: Field Screening Table 3: Summary of Laboratory Analyses

Appendices:

Appendix A: Laboratory Analytical Reports Appendix B: Form C141 Final Appendix C: API Amigo Summary

Scared Hawk State Com #1 Final Closure Report SMA Ref 5B23978 BG 6 8/04/15

FIGURE 1 VICINITY MAP

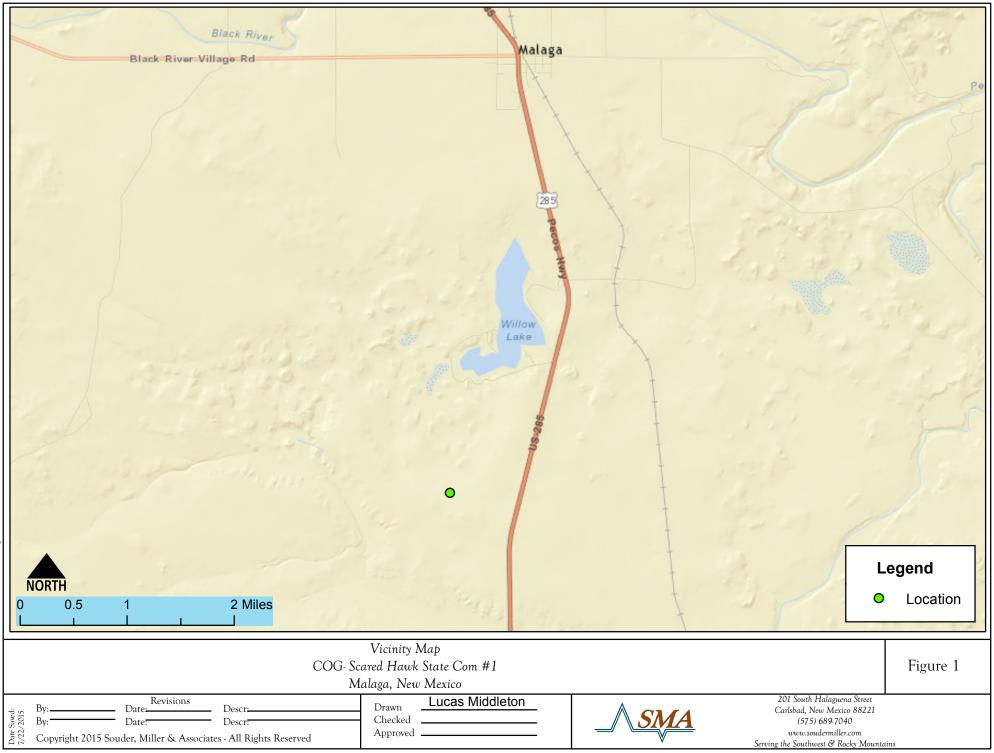


FIGURE 2 DETAILED SITE AND SAMPLE MAP

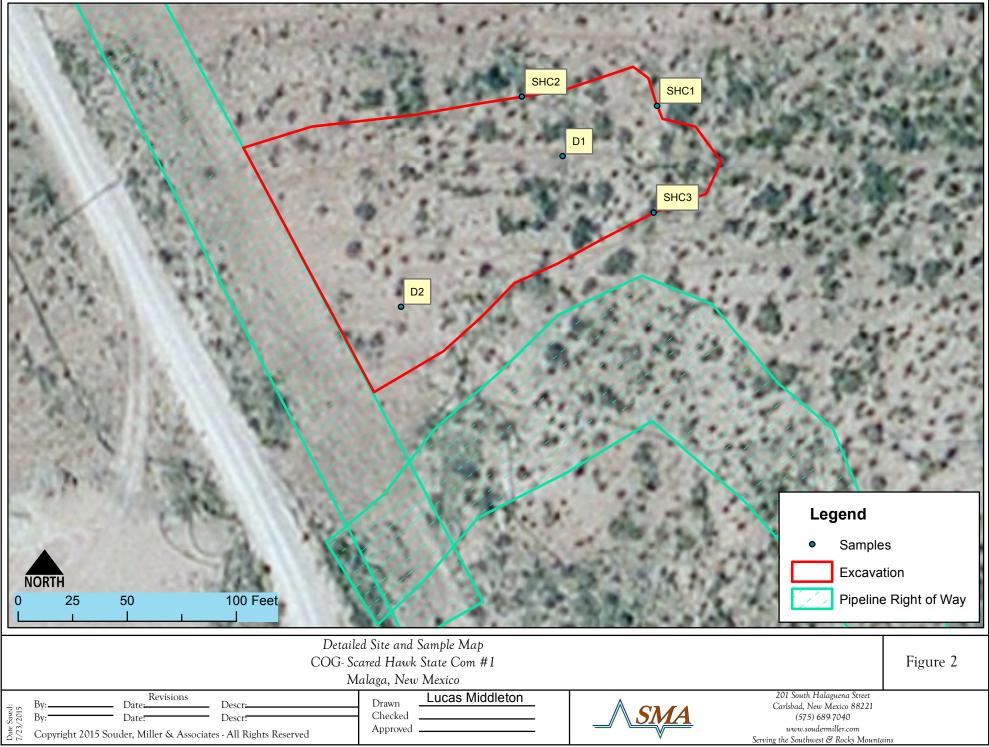


FIGURE 3 IN-SITU CAP AND BIO BARRIER DESIGN

+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +	<pre>* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *</pre>	SOIL
		BREAł
	00000000000000000000000000000000000000	
	INTRUSION B	ARRIE
	AFFECTED	SOILS
Souder, Miller & Associates	COG	Designe
Souder, Miller & Associates		LM
201 S. Halaqueno Street	IN-SITU CAP	Date: J

FIGURE 4 ELECTRICAL CONDUCTIVITY CORRELATION TO EPA METHOD 300 GRAPH

Figure 4: Electrical Conductivity Correlation to EPA Method 300 Graph

EPA Method 300 vs Electrical Conductivity (EC)

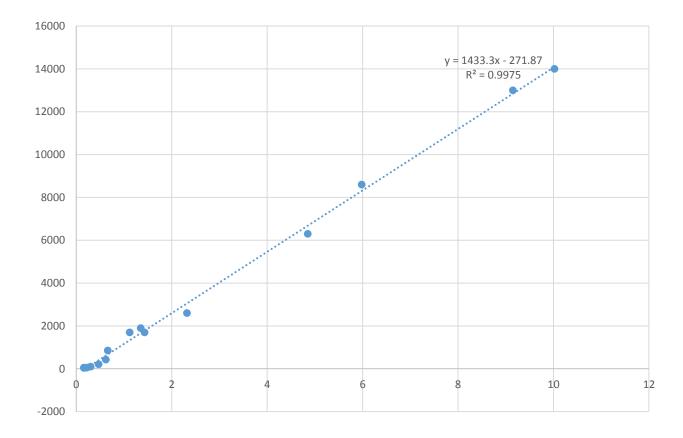


TABLE 1

RELEASE INFORMATION AND SITE RANKING

Table 1: Rele	ase informa	ation and Si	te Ranking		
Name		Scared	Hawk State	Com #1	
	Incident Number	API Number	Sectior	n, Township	, Range
Location	2RP-2918	30-015- 35102	SW/NE (Unit A)	Section 4	T 25S, R 28E NMPM
Estimated Date of Release	March 8, 20	015			
Date Reported to NMOCD	March 25, 2	2015			
Reported by	Amanda Tr	ujillo, COG (Operating L	LC	
Land Owner	New Mexic	o State Lan	d Office		
Reported To	NM Oil Conservation Division (NMOCD)				
Source of Release	Flow line failure				
Released Material	Produced Water				
Released Volume	30 bbls Pro	duced Wate	er		
Recovered Volume	5 bbls Prod	uced Water	ŕ		
Net Release	25 bbl Proc	luced Wate	r		
Nearest Waterway	The Salt Dr	aw is over c	one mile to ⁻	the west of	the
Depth to Groundwater	Estimated t	to be 41 fee	t		
Nearest Domestic Water Source	Greater that	an 1,000 fee	et		
NMOCD Ranking	20				
SMA Response Dates	Initial: Apri	l 28, 2015 I	Mitigation A	Activities: 7,	/6/15
Subcontractors	TCS				
Disposal Facility	Lea Land, L	LC			
Estimated Yd ³ Contaminated Soil Excavated and Disposed	1,800 (Rep	orted on Co	mpleted C-	138)	

TABLE 2 SUMMARY OF FIELD SCREENING

		FIELD SCREENING RES	SULTS SUMMA	RY	
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	Chlorides Results	Lab Sample Collected Y/N
6/19/2015	12:00	D1	2'	2285	Y
6/19/2015	12:00	D1-4	7'	600	Y
6/19/2015	12:00	D2	2'	5800	Y
6/19/2015	12:00	D2-1	3'	4500	Y
6/19/2015	12:00	D2-2	4'	3233	Y
6/19/2015	12:00	D2-4	6'	2400	Y
6/19/2015	12:00	D2-5	7'	1600	Y
6/19/2015	12:00	D2-6	8'	1500	Y



TABLE 3 SUMMARY OF LABORATORY ANALYSES

Analytical Report-	Sample Number on	Sample	Death	BTEX	Benzene	GRO	DRO	CI-
1505718/ 1507979	Figure 2 Map	Date	Depth	ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg
1505718- 001	SH-1	5/22/2015	1'	N/A	N/A	N/A	N/A	430
1505718- 002	SH-2	5/22/2015	1'	N/A	N/A	N/A	N/A	14,000
1505718- 003	SH-3	5/22/2015	1'	N/A	N/A	N/A	N/A	13,000
1507979- 001	SHC1	7/20/2015	1'	BDL	BDL	BDL	BDL	120
1507979- 002	SHC2	7/21/2015	1'	BDL	BDL	BDL	BDL	BDL
1507979- 003	SHC3	7/22/2015	1'	BDL	BDL	BDL	BDL	40

Table 3: Summary of Laboratory Analyses

APPENDIX A LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

May 22, 2015

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1505718

RE: Scared Hawk

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/15/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Lab Order: 1505718

Hall Environ	mental Analysis	Date Reported: 5/22/2015				
	Souder, Miller & Associa Scared Hawk	tes			Lab Order: 15057	/18
Lab ID:	1505718-001			Collection I	Date: 5/13/2015 9:00:00 A	М
Client Sample ID:	SH-1			Ma	atrix: SOIL	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	430	30	mg/Kg	Ana 20 5/19/2015 12:36:13	alyst: LGT 3 PM 19298
Lab ID:	1505718-002			Collection I	Date: 5/13/2015 9:00:00 A	М
Client Sample ID:	SH-2			Ma	atrix: SOIL	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ana	alyst: LGT
Chloride		14000	750	mg/Kg	500 5/20/2015 3:57:33	PM 19298
Lab ID:	1505718-003		(Collection I	Date: 5/13/2015 9:00:00 A	М
Client Sample ID:	SH-3			Ma	atrix: SOIL	
Analyses		Result	RL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ana	alyst: LGT
Chloride		13000	750	mg/Kg	500 5/20/2015 4:09:57	PM 19298

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В

Page 1 of 2

- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Sample pH Not In Range Р
- RL Reporting Detection Limit

Client: Project:		er, Miller & As ed Hawk	ssociate	es							
Sample ID	MB-19298	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 19	298	F	RunNo: 2	6305				
Prep Date:	5/19/2015	Analysis D	ate: 5/	19/2015	S	SeqNo: 7	81402	Units: mg/H	٤g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS-19298	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch	ID: 19	298	F	RunNo: 2	6305				
Prep Date:	5/19/2015	Analysis D	ate: 5/	19/2015	5	SeqNo: 7	81403	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Р Sample pH Not In Range
 - Reporting Detection Limit RL

Page 2 of 2

1505718

WO#:

-	HALL
	ENVIRONMENTAL
	ANALYSIS
	LABORATORY

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number	r: 1505718		RoptNo: 1	
Received by/date: CS 05/15/1	5			
		A		
		A		
	M	Al		
Reviewed By: OS 051515				
Chain of Custody	220	_		
1. Custody seals intact on sample bottles?	Yes	No	Not Present	
2. Is Chain of Custody complete?	Yes 🖌	No 🗌	Not Present	
How was the sample delivered?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆		
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗌		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗔		
9. Was preservative added to bottles?	Yes 🗌	No 🗸	NA 🗌	
10.VOA vials have zero headspace?	Yes 🗌	No 🗌	No VOA Vials 🔽	
11. Were any sample containers received broken?	Yes	No 🗹		
		2000	# of preserved bottles checked	
12. Does paperwork match bottle labels?	Yes 🗸	No	for pH: (<2 or >12	2 unless noted
(Note discrepancies on chain of custody)	Yes 🖌	No 🗌	Adjusted?	
13, Are matrices correctly identified on Chain of Custody? 14, Is it clear what analyses were requested?	Yes 🗹	No 🗌		
15. Were all holding times able to be met?	Yes 🖌	No 🗌	Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable)		2212	-	
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: Date				
By Whom: Via:	🗌 eMail 🗌	Phone 🗌 Fax	In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 5.5 Good Yes				

÷ If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibil



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

July 30, 2015

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1507979

RE: Scrad Hawk

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/22/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1507979

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2015

CLIENT: Souder, Miller & Associates	Client Sample ID: SHC1											
Project: Scrad Hawk	Collection Date: 7/20/2015 2:00:00 AM											
Lab ID: 1507979-001	Matrix:	SOIL	Received I	Date: 7/22/2015 9:15:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analyst	LGT						
Chloride	120	30	mg/Kg	20	7/28/2015 1:55:09 PM	20481						
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	DJF						
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/24/2015 2:58:42 AM	20387						
Surr: BFB	108	70-130	%REC	1	7/24/2015 2:58:42 AM	20387						
EPA METHOD 8015M/D: DIESEL RANGE		s			Analyst	KJH						
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/24/2015 11:55:35 AM	20380						
Surr: DNOP	83.8	57.9-140	%REC	1	7/24/2015 11:55:35 AM	20380						
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	DJF						
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	7/24/2015 2:58:42 AM	20387						
Benzene	ND	0.050	mg/Kg	1	7/24/2015 2:58:42 AM	20387						
Toluene	ND	0.050	mg/Kg	1	7/24/2015 2:58:42 AM	20387						
Ethylbenzene	ND	0.050	mg/Kg	1	7/24/2015 2:58:42 AM	20387						
Xylenes, Total	ND	0.10	mg/Kg	1	7/24/2015 2:58:42 AM	20387						
Surr: 1,2-Dichloroethane-d4	98.7	70-130	%REC	1	7/24/2015 2:58:42 AM	20387						
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	7/24/2015 2:58:42 AM	20387						
Surr: Dibromofluoromethane	110	70-130	%REC	1	7/24/2015 2:58:42 AM	20387						
Surr: Toluene-d8	94.4	70-130	%REC	1	7/24/2015 2:58:42 AM	20387						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*
-------------	---

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1507979

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/30/2015

CLIENT: Souder, Miller & Associates	Client Sample ID: SHC2											
Project: Scrad Hawk	Collection Date: 7/20/2015 2:00:00 AM											
Lab ID: 1507979-002	Matrix:	SOIL	Received	Date: 7/22/2015 9:15:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analyst	LGT						
Chloride	ND	30	mg/Kg	20	7/28/2015 2:07:33 PM	20481						
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	DJF						
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/24/2015 3:26:09 AM	20387						
Surr: BFB	109	70-130	%REC	1	7/24/2015 3:26:09 AM	20387						
EPA METHOD 8015M/D: DIESEL RANGI		s			Analyst	KJH						
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/24/2015 12:59:40 PM	20380						
Surr: DNOP	66.3	57.9-140	%REC	1	7/24/2015 12:59:40 PM	20380						
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	DJF						
Methyl tert-butyl ether (MTBE)	ND	0.048	mg/Kg	1	7/24/2015 3:26:09 AM	20387						
Benzene	ND	0.048	mg/Kg	1	7/24/2015 3:26:09 AM	20387						
Toluene	ND	0.048	mg/Kg	1	7/24/2015 3:26:09 AM	20387						
Ethylbenzene	ND	0.048	mg/Kg	1	7/24/2015 3:26:09 AM	20387						
Xylenes, Total	ND	0.096	mg/Kg	1	7/24/2015 3:26:09 AM	20387						
Surr: 1,2-Dichloroethane-d4	103	70-130	%REC	1	7/24/2015 3:26:09 AM	20387						
Surr: 4-Bromofluorobenzene	98.8	70-130	%REC	1	7/24/2015 3:26:09 AM	20387						
Surr: Dibromofluoromethane	109	70-130	%REC	1	7/24/2015 3:26:09 AM	20387						
Surr: Toluene-d8	95.1	70-130	%REC	1	7/24/2015 3:26:09 AM	20387						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers	*
Quanners	•

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1507979

Hall Environmental Analysis Laboratory, Inc.

Lab Order **1507979** Date Reported: **7/30/2015**

CLIENT: Souder, Miller & Associates Project: Scrad Hawk	Client Sample ID: SHC3 Collection Date: 7/20/2015 2:00:00 AM										
Lab ID: 1507979-003	Matrix:	Matrix: SOIL Received Date: 7/22/2015 9:15:00 A									
Analyses	Result	RL	Qual Units	DF Date Analy	zed Batch	1					
EPA METHOD 300.0: ANIONS					Analyst: LGT						
Chloride	40	30	mg/Kg	20 7/28/2015 2	:19:58 PM 20481	í –					
EPA METHOD 8015D MOD: GASOLINE I	RANGE				Analyst: DJF						
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1 7/24/2015 3	:53:36 AM 20387	7					
Surr: BFB	110	70-130	%REC	1 7/24/2015 3	:53:36 AM 20387	7					
EPA METHOD 8015M/D: DIESEL RANGE		s			Analyst: KJH						
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 7/24/2015 1	:21:17 PM 20380)					
Surr: DNOP	72.5	57.9-140	%REC	1 7/24/2015 1	:21:17 PM 20380)					
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: DJF						
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1 7/24/2015 3	:53:36 AM 20387	7					
Benzene	ND	0.050	mg/Kg	1 7/24/2015 3	:53:36 AM 20387	7					
Toluene	ND	0.050	mg/Kg	1 7/24/2015 3	:53:36 AM 20387	,					
Ethylbenzene	ND	0.050	mg/Kg	1 7/24/2015 3	:53:36 AM 20387	,					
Xylenes, Total	ND	0.10	mg/Kg	1 7/24/2015 3	:53:36 AM 20387	7					
Surr: 1,2-Dichloroethane-d4	98.3	70-130	%REC	1 7/24/2015 3	:53:36 AM 20387	7					
Surr: 4-Bromofluorobenzene	100	70-130	%REC	1 7/24/2015 3	:53:36 AM 20387	7					
Surr: Dibromofluoromethane	107	70-130	%REC	1 7/24/2015 3	:53:36 AM 20387	7					
Surr: Toluene-d8	98.4	70-130	%REC	1 7/24/2015 3	:53:36 AM 20387	7					

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*
-------------	---

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit

Client: Project:		er, Miller & A Hawk	ssociate	es							
Sample ID	MB-20481	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	n ID: 20	481	F	RunNo: 2	7833				
Prep Date:	7/28/2015	Analysis D	ate: 7/	28/2015	S	SeqNo: 8	36878	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-20481	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anion	IS		
Client ID:	LCSS	Batch	n ID: 20	481	F	RunNo: 2	7833				
Prep Date:	7/28/2015	Analysis D	ate: 7/	28/2015	5	SeqNo: 8	36879	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	98.3	90	110			

Qualifiers:

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- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 4 of 7

Client: Project:	Souder, N Scrad Ha	/liller & As wk	sociate	es							
Sample ID	MB-20380	SampTy	pe: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 20	380	R	RunNo: 2	7722				
Prep Date:	7/22/2015	Analysis Da	ate: 7/	/24/2015	S	SeqNo: 8	33693	Units: mg/#	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Surr: DNOP	Organics (DRO)	ND 10	10	10.00		104	57.9	140			
Sample ID	LCS-20380	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 20	380	R	RunNo: 2	7722				
Prep Date:	7/22/2015	Analysis Da	ate: 7/	/24/2015	S	SeqNo: 8	33694	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (DRO)	56	10	50.00	0	111	57.4	139			
Surr: DNOP		5.4		5.000		108	57.9	140			
Sample ID	1507979-001AMS	SampTy	pe: M	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	SHC1	Batch	ID: 20	380	R	RunNo: 2	7722				
Prep Date:	7/22/2015	Analysis Da	ate: 7/	/24/2015	S	SeqNo: 8	33696	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	49	9.6	48.22	0	101	42.3	146			
Surr: DNOP		3.6		4.822		74.1	57.9	140			
Sample ID	1507979-001AMS) SampTy	pe: M	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	SHC1	Batch	ID: 20	380	R	anNo: 2	7722				
Prep Date:	7/22/2015	Analysis Da	ate: 7/	/24/2015	S	SeqNo: 8	33697	Units: mg/k	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	43	9.6	47.98	0	89.4	42.3	146	12.6	28.9	
Surr: DNOP		3.1		4.798		64.0	57.9	140	0	0	

Qualifiers:

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- B Analyte detected in the associated Method Blank
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- RL Reporting Detection Limit

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WO#:

WO#:	1507979
	20 1.1 15

30-Jul-15

Client:Souder,Project:Scrad H	Miller & A awk	ssociate	es								
Sample ID mb-20387	SampT	ype: ME	BLK	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batcl	h ID: 20	387	R	unNo: 2	7718					
Prep Date: 7/22/2015	Analysis D	Date: 7/	23/2015	S	eqNo: 8	33184	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	ND	0.050									
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130				
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.5	70	130				
Surr: Dibromofluoromethane	0.58		0.5000		115	70	130				
Surr: Toluene-d8	0.47		0.5000		94.5	70	130				
Sample ID Ics-20387 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List											
Sample ID Ics-20387	SampT	ype: LC	S	Test	tCode: El	PA Method	8260B: Volat	iles Short	List		
Sample ID Ics-20387 Client ID: LCSS	·	ype: LC			tCode: El		8260B: Volat	iles Short	List		
	·	h ID: 20	387	R		7718	8260B: Volat Units: mg/K		List		
Client ID: LCSS	Batcl	h ID: 20	387 23/2015	R	unNo: 2	7718			List RPDLimit	Qual	
Client ID: LCSS Prep Date: 7/22/2015 Analyte	Batcl Analysis E	n ID: 20 Date: 7/	387 23/2015	R	tunNo: 2 SeqNo: 8	7718 33185	Units: mg/K	g		Qual	
Client ID: LCSS Prep Date: 7/22/2015 Analyte Methyl tert-butyl ether (MTBE)	Batcl Analysis D Result	h ID: 20 Date: 7/ PQL	387 23/2015 SPK value	R S SPK Ref Val	2000 2000 2000 2000 2000 2000 2000 200	7718 33185 LowLimit	Units: mg/K HighLimit	g		Qual	
Client ID: LCSS Prep Date: 7/22/2015	Batcl Analysis E Result 1.1	n ID: 20 : Date: 7/ PQL 0.050	387 23/2015 SPK value 1.000	R SPK Ref Val 0	2000 2000 2000 2000 2000 2000 2000 200	7718 33185 LowLimit 70	Units: mg/K HighLimit 130	g		Qual	
Client ID: LCSS Prep Date: 7/22/2015 Analyte Methyl tert-butyl ether (MTBE) Benzene	Batcl Analysis E Result 1.1 1.0	n ID: 20: Date: 7/ PQL 0.050 0.050	387 23/2015 SPK value 1.000 1.000	R SPK Ref Val 0 0	tunNo: 2 6eqNo: 8 78 711 704	7718 33185 LowLimit 70 70	Units: mg/K HighLimit 130 130	g		Qual	
Client ID: LCSS Prep Date: 7/22/2015 Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene Ethylbenzene	Batcl Analysis E Result 1.1 1.0 1.0	n ID: 20: Date: 7/ PQL 0.050 0.050 0.050	387 23/2015 SPK value 1.000 1.000 1.000	R SPK Ref Val 0 0 0	2000 2000 2000 2000 2000 2000 2000 200	7718 33185 LowLimit 70 70 70	Units: mg/K HighLimit 130 130 130	g		Qual	
Client ID: LCSS Prep Date: 7/22/2015 Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene Ethylbenzene	Analysis E Result 1.1 1.0 1.0 1.1	Date: 7/ PQL 0.050 0.050 0.050 0.050 0.050	387 23/2015 SPK value 1.000 1.000 1.000 1.000	R SPK Ref Val 0 0 0 0	eqNo: 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7718 33185 LowLimit 70 70 70 70 70	Units: mg/K HighLimit 130 130 130 130	g		Qual	
Client ID: LCSS Prep Date: 7/22/2015 Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene Ethylbenzene Xylenes, Total	Batcl Analysis E Result 1.1 1.0 1.0 1.1 3.2	Date: 7/ PQL 0.050 0.050 0.050 0.050 0.050	387 23/2015 29K value 1.000 1.000 1.000 3.000	R SPK Ref Val 0 0 0 0	eqNo: 2 8 8 8 8 8 8 8 8 8 8 8 111 104 103 106 108	7718 33185 LowLimit 70 70 70 70 70 70 70	Units: mg/K HighLimit 130 130 130 130 130 130	g		Qual	
Client ID: LCSS Prep Date: 7/22/2015 Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Batcl Analysis E Result 1.1 1.0 1.0 1.1 3.2 0.52	Date: 7/ PQL 0.050 0.050 0.050 0.050 0.050	387 23/2015 25PK value 1.000 1.000 1.000 3.000 0.5000	R SPK Ref Val 0 0 0 0	2unNo: 2 SeqNo: 8 %REC 111 104 103 106 108 104	7718 33185 LowLimit 70 70 70 70 70 70 70 70 70	Units: mg/K HighLimit 130 130 130 130 130 130 130	g		Qual	

Qualifiers:

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- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Client:SouderProject:Scrad	r, Miller & As Hawk	sociate	es							
Sample ID mb-20387	SampTy	/pe: M	BLK	Tes	tCode: E	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch	ID: 20	387	F	RunNo: 2	7718				
Prep Date: 7/22/2015	Analysis Da	ate: 7/	23/2015	S	SeqNo: 8	33250	Units: mg/H	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	540		500.0		108	70	130			
Sample ID Ics-20387	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	ID: 20	387	F	RunNo: 2	7718				
Prep Date: 7/22/2015	Analysis Da	ate: 7/	/23/2015	5	SeqNo: 8	33278	Units: mg/H	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	70	123			
Surr: BFB	520		500.0		104	70	130			

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

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WO#: 1507979 30-Jul-15

ANALYSIS	Albu TEL: 505-345-3975 I Website: www.hali		07	le Log-In Ch	
Client Name: SMA-CARLSBAD	Work Order Number:	1507979		RcptNo: 1	t.
Received by/date: SA O	7/22/15				
Logged By: Lindsay Mangin	7/22/2015 9:15:00 AM		July Hego		
Completed By: Lindsay Mangin	7/22/2015 10:05:05 AM	(JunkyHlago		
Reviewed By:	01/22/15		v -		
Chain of Custody				2011 (1 4)	
1. Custody seals intact on sample bottles?		Yes 🗌	No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🛄	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the samples	?	Yes 🗹	No 🗌	NA 🗌	
5. Were all samples received at a temperature	e of >0°C to 6.0°C	Yes Approved by	No 🗹	NA 🗌	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated test	s)?	Yes 🔽	No 🗌		
8. Are samples (except VOA and ONG) prope	rly preserved?	Yes 🗸	No 🗌		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA	
10. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
11. Were any sample containers received brok	ken?	Yes 🗆	No 🗹	# of preserved	
10		Yes 🗹	No 🗆	bottles checked for pH:	
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		103 🖾		(<2 0	r >12 unless noted
13. Are matrices correctly identified on Chain of	of Custody?	Yes 🗹	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with		Yes 🗌	No 🗌	NA 🗹	1
Person Notified:	Date			In Barrier	
By Whom:	Via:	eMail F	Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
17. Additional remarks:					
18. Cooler Information					

ORY		bbles (Y or N)	Air Bu				4	cal report.
HALL ENVIRONMENTAL	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	MTBE + TMB's (8021) MTBE + TPH (Gas only) MtDd 8015B (Gas/Diesel) MtDd 8015B (Gas/Diesel) MtDd 504.1) Metals (FC)NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) Metals (FC)NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) (FC)NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	82608 82608 82310 82310 (P 82310 (P) 82310 (P 82310 (P) 83310 (P 83310 (P) 83310 (P) 83310) (P) 83310 (P				Remarks:	Time: Relinquished by: Date The serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	Project Name: Sch L Hunk Project #:	Project Manager: Aush Weyert Sampler: UC On Ice: #Yes DNo Sample Temperature: //. 4	d # Type HEAL No.	Asz -101	200 2013		5	Received by: Received by: Received by: Received by:
Chain-of-Custody Record		Phone #: 575-687-5357 email or Fax#: QAVC Package: Conceditation: Concreditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Decoditation: Deco	Date Time Matrix Sample Request ID	SHC SHC	7205 200 50° 514C 2 7205 200 50° 514C 3		Date: Time: Relinquished by:	Date: Time: Relinquished by:

APPENDIX B FORM C141 FINAL

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

API No. 30-015-35102

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company COG Operating LLC	Contact Robert McNeill		
Address 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077		
Facility Name Scared Hawk State Com #1	Facility Type Well		
Tuenty Plane Searce Plank State Cont #1	Tuenney Type Wen		

Surface Owner State

LOCATION OF RELEASE

Mineral Owner

	East/West Line County	Feet from the East/W	North/S	Feet from the	Range	Township	Section	Unit Letter
A 4 25S 28E 330 North 25	East Eddy	25 E	N	330	28E		4	А

Latitude 32.165635431036 **Longitude** -104.083854368812

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Re	ecovered				
Produced Water	30 bbls PW	5 bbls PW					
Source of Release	Date and Hour of Occurrence		lour of Discovery				
Flowline	3/8/2015 11:00 am	3/8/2015 1	1:00 am				
Was Immediate Notice Given?	If YES, To Whom?						
🛛 Yes 🗌 No 🗌 Not Required	Mike Bratcher - NMOCD						
By Whom? Amanda Trujillo	Date and Hour 3/9/2015 5:49 pm						
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.					
🗌 Yes 🖾 No							
If a Watercourse was Impacted, Describe Fully.*							
1 2 5							
Describe Cause of Problem and Remedial Action Taken.*							
This release was caused when the weld in a poly flowline failed to hold. Vacuum trucks were dispatched to recover any standing fluids.							
Describe Area Affected and Cleanup Action Taken.*							
The impacted area occurred within the pasture and road, approximately 150' x 90'. Concho will have the spill site sampled to delineate any possible							
contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.							
I hereby certify that the information given above is true and complete to	he best of my knowledge and understa	and that pursu	ant 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.							
Todorul, stato, or todar laws and or regulations.	OIL CONSERV						
	OIL CONSERV	VATION	JIVISION				
Si A-Trinjelle							
Signature:							
	Approved by Environmental Speciali	st:					
Printed Name: Amanda Trujillo							
Title: Senior Environmental Coordinator	Approval Date:	Expiration D	Pate:				
E-mail Address: atruiillowiconcho.com	Conditions of Approval:		Attached				
			Attached				
Date: August 8,2015 Phone: 575-748-6940							

* Attach Additional Sheets If Necessary

Appendix C: API Amigo Summary

AMIGO

