District I St 1625 N. French Dr., Hobbs, NM 88240 Energy Mi District II Energy Mi 1301 W. Grand Avenue, Artesia, NM 88210 District III District III Oil C 1000 Rio Brazos Road, Aztec, NM 87410 12200 District IV 12200 1220 S. St. Francis Dr., Santa Fe, NM 87505 Sa	ate of I inerals a Conser) South anta Fe	New Mex and Natura vation Div St. France NM 875	ico 1 Resources vision is Dr. 505	HOBBS O OCT 3 0 2 RECEIVE	CD 2013 Submit 2 Distri	Form C-141 Revised October 10, 2003 Copies to appropriate ct Office in accordance with Rule 116 on back side of form
Release Notific	cation	and Co	orrective A	ction		and the second second
		OPERA'	FOR	In In	itial Report	t 🛛 Final Report
Name of Company COG OPERATING LLC Address 600 West Illinois Avenue, Midland, TX 797	01	Contact Telephone 1	No. 432-	230-0077		
Facility Name MAGNUM PRONTO STATE #4H]]	Facility Typ	e TANK	BATTERY		
Surface Owner STATE Mineral O	Owner		ACL	Lease	e No. (API	#) 30-025-39951
LOCA	ATION	South Line	LEASE	Fast/West Lin	County	
C 8 26S 26E	NOILI	South Line	reet nom the	East west Lin	County	LEA
Latitude 32.6	1053	Longi	tude 103.78080			
NAT	URE	OF REL	EASE			
Type of Release Oil		Volume of	Release 50bbls	Volum	e Recovered	l 20bbls
Source of Release Oil hauler	k.	Date and H	Hour of Occurrence	e Date an	nd Hour of I	Discovery
Was Immediate Notice Given?	aquirad	If YES, To	Whom?	02/19/2	~ OCD	
By Whom? Michelle Mullins	equired	Date and F	Jour 02/20/2013	8.16am	g-OCD	
Was a Watercourse Reached?		If YES, Vo	olume Impacting t	he Watercourse.		100 M
If a Watercourse was Impacted Describe Fully *			-			and the second s
in a wateroonise was implacted, Describer runy.						
Oil hauler driver fell asleep while loading oil. Shut in load line to	prevent	further releas	se of oil.			
Describe Area Affected and Cleanup Action Taken.*	-					
Initially 50bbls of oil were released from an oil hauler and we were release area, and the release was completely contained on the locat remediation was performed in accordance with the approved Remand disposed at the Parabo Disposal Facility east of Eunice, NM, four locations and analyzed for Benzene, BTEX, TPH and chlorid Benzene, BTEX or TPH above laboratory reporting limits. Chlor mg/kg). The excavated area was backfilled with clean fill and con Abatement Completion Report dated October 29, 2013. I hereby certify that the information given above is true and compregulations all operators are required to report and/or file certain republic health or the environment. The acceptance of a C-141 repushould their operations have failed to adequately investigate and ror the environment. In addition, NMOCD acceptance of a C-141 federal, state, or local laws and/or regulations.	re able to ation. The hedial Ac operated de. Labo ride in ex ntoured t plete to the release no ort by the remediate report do	o recover 20b e free fluid ha tion Plan dat by Sundance ratory analyt cess of 1,000 to provide dra be best of my otifications a e NMOCD me e contaminations not reliev	bls with a vacuum as been recovered ed July 8, 2013. 9 e Services, Inc. S ical results indica 0 mg/kg is present ainage away from knowledge and u nd perform correct arked as "Final R on that pose a thr te the operator of the	and the location 22 cubic yards of oils at the base of te that remaining at two sampled the site. Remed inderstand that p tive actions for eport" does not re eat to ground wa responsibility for	orary berm w has been so contaminat of the excava soils do no locations (at ial actions a ursuant to N releases whi relieve the op ter, surface	was placed around the craped. Site sed soil was removed atton were sampled at t appear to contain t 2,050 and 2,680 re detailed in the MOCD rules and ch may endanger perator of liability water, human health e with any other
The second second		49 1º	OIL CON	SERVATIO	N DIVIS	ION
Signature:		A	District C			
Printed Name: Josh Russo		Approved by	District Supervis			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Title: Senior Environmental Coordinator		Approval Da	te:	Expiratio	on Date:	Same State of the
E-mail Address: jrusso@concho.com	(Conditions of	f Approval:		Attach	ed 🔲
Date: 02-22-2013 Phone: 432-212-239	9					

Abatement Completion Report

General Site Information: Magnum Pronto State #4H Tank Battery Crude Oil Release

Site Contact:

Pat Ellis, COG Operating LLC 600 West Illinois Avenue, Midland, Texas 79701 (432) 230-0077

> Depth to Ground Water Greater than 100 feet below grade surface

Distance to Nearest Surface Water Laguna Plata (west-central Lea County), approximately 1.5 miles to the southeast

Driving Directions

From NM529, south on Lea Co. Rd. 126A 12.5 mi, east on unimproved road 0.65 mi., south 0.35 mi., then southeast 0.25 mi. to tank battery.

Legal Description SE ¼ SE ¼ Section 32, T19S, R32E, N.M.P.M., Lea County, New Mexico

> October 29, 2013 Terracon Project No. 68137010

HOBBS OCD

OCT 3 0 2013

RECEIVED

Prepared for:

High Sierra Transportation Fort Lupton, Colorado

Prepared by: Terracon Consultants, Inc. Las Cruces, New Mexico

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Geotechnical

Environmental

Construction Materials

Facilities

October 29, 2013

High Sierra Transportation 6075 CR 19 Fort Lupton, Colorado 80621

Attn: Larry Cash, Safety P: 303-396-9964 E: <u>lcash@highsierraenergy.com</u>

RE: Abatement Completion Report Magnum Pronto State #4H Tank Battery Crude Oil Release SE ¼ SE ¼ Section 32, Township 19 South, Range 32 East, N.M.P.M. Lea County, New Mexico Terracon Project No. 68137010

Dear Mr. Cash;

Terracon Consultants, Inc. (Terracon) is pleased to submit our Abatement Completion Report for the site referenced above. This report was developed in accordance with the New Mexico Oil Conservation Division (OCD) regulations concerning clean-up actions required for releases of crude oil, and with the Remedial Action Plan dated July 8, 2013 developed for the site by Terracon (Project Number 68137010). The report presents a description of the release incident and OCD notification, site characteristics, potential receptors, and remedial actions completed by the client at the site. Terracon developed this report in general accordance with our proposal (P6813-113E) dated May 6, 2013 and your notice to proceed dated May 13, 2013.

Terracon appreciates this opportunity to provide environmental services to High Sierra Transportation. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely, Terracon Consultants, Inc.

J. Kyle Williams Project Manager

John B. Sallman, P.G. Senior Principal / Environmental Services (Olathe, Kansas)

Terracon

Terracon Consultants, Inc. 1640 Hickory Loop Suite 105 Las Cruces, New Mexico 88005 P (575) 527 1700 F (575) 527 1092 terracon.com

Construction Materials



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APPENDIX A – FIGURES

Figure 1 – Topographic Map Figure 2 – Site Plan

APPENDIX B - ANALYTICAL REPORT AND CHAIN OF CUSTODY

APPENDIX C - WASTE MANIFESTS



Abatement Completion Report Magnum Pronto State #4H Tank Battery Crude Oil Release SE ¼ SE ¼ Section 32, Township 19 South, Range 32 East, N.M.P.M. Lea County, New Mexico Terracon Project No. 68137010 October 29, 2013

1.0 SITE DESCRIPTION

The site is an approximate 2-acre tract of cleared land within the SE ¼ SE ¼ Section 32, Township 19 South, Range 32 East, N.M.P.M., Lea County, New Mexico (hereinafter, the site). The site is developed with a tank battery (five crude oil ASTs), a separator, and a pump jack. A Topographic Map showing the site location is included as Figure 1 and a Site Plan is included as Figure 2 in Appendix A.

2.0 SCOPE OF SERVICES

At your request, the scope of services is to develop an Abatement Completion Report (ACR) in accordance with the New Mexico Oil Conservation Division (OCD) requirements and with the Remedial Action Plan dated July 8, 2013 developed for the site by Terracon (Project Number 68137010) that detail abatement activities that the client has completed at the site. This ACR addresses the February 19, 2013 release of approximately 50 barrels (BBL) of crude oil originating from overfilling of a High Sierra Transportation transport, and abatement actions completed at the site during August 2013. Terracon understands that oversight and/or performance of these activities is not required by the client, and is not a part of this scope of services.

2.1 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, High Sierra Transportation, as reflected in our proposal.

2.2 Additional Scope Limitations

Development of this ACR is based upon information provided by the Client and their remediation subcontractor, Allied International Emergency, LLC. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable,

Magnum Pronto State #4H Release
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nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client and their subcontractor. The data, interpretations, findings, and our recommendations are based solely upon data provided by the Client within the scope of these services.

2.3 Reliance

This report has been prepared for the exclusive use of High Sierra Transportation (HST), Allied International Emergencies, LLC (Allied), COG Operating LLC (COG), and Haz-Mat One, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of High Sierra Transportation and Terracon. Any unauthorized distribution or reuse is at High Sierra Transportation sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, report, and Terracon's Agreement for Services. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to High Sierra Transportation and all relying parties unless otherwise agreed in writing.

3.0 INTRODUCTION AND NOTIFICATION

A release of approximately 50 barrels (BBL) of crude oil occurred on February 19, 2013 at the Magnum Pronto State #4H tank battery facility in Lea County, New Mexico. The site is operated by COG Operating LLC (COG), 600 West Illinois Avenue, Midland, Texas. The site is an approximate 2-acre cleared area with five crude oil ASTs, a separator, and a pump jack approximately 20 miles south of Maljamar, New Mexico. Incident information is provided in the following table:

Required Information	Site and Release information
Responsible party and local contact	The facility is operated by COG Operating LLC, and the contact is Pat Ellis at (432) 230-0077. The transport company is High Sierra Transportation, and the contact is Larry Cash at (303) 396-9964.
OCD Notification	Immediate notice of the release was provided to the OCD. Michelle Mullins (COG) notified Geoffrey R. Leking, Environmental, OCD District 1 at 8:16 a.m. on February 20, 2013.
Facility description	The facility is Magnum Pronto #4H in Lea County, New Mexico. It is an approximate 2-acre tank battery located within the SE ¼ SE ¼ Section 32, Township 19 South, Range 32 East, N.M.P.M., approximately 20 miles south of Maljamar, New Mexico. The site is developed with a tank battery, a separator, and a pump jack.



Magnum Pronto State #4H Release
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Required Information	Site and Release information
Time of incident	February 19, 2013, discovered at 3:00 a.m.
Discharge event	The release occurred during transport loading. The HST transport driver fell asleep while loading crude oil, and overfilled the transport releasing approximately 50 BBL in the area west of the tank battery. The driver shut in the load line when discovered preventing further release. The spill area was completely within the location, covering approximately 6,000 square feet of the cleared area west of the battery. The spill area is shown on Figure 2 of Appendix A
Type of discharge	Crude oil
Quantity of spilled material	Approximately 50 BBL
Site characteristics	Relatively flat with hummocky dunes, with the native ground surface very gently sloping to the southwest.
Immediate corrective actions	A temporary berm was placed around the release. Approximately 20 BBL of crude oil was recovered using a vacuum truck.

4.0 INITIAL RESPONSE ACTIONS

4.1 Source Elimination and Site Security

Initial source elimination was accomplished by the HST truck driver by closing the load line valve. HST deployed their on-call spill response contractor, Allied International Emergency, LLC to secure the site and perform containment and site stabilization activities.

4.2 Containment and Site Stabilization

Allied began containment and recovery operations by constructing a perimeter berm around the release area. Allied then recovered approximately 20 BBL of crude oil using a vacuum truck.

5.0 REMEDIAL ACTION PLAN

5.1 Site and Waste Characteristics

The July 8, 2013 Remedial Action Plan findings and requirements are summarized in this section. This plan included an assessment of the site and waste characteristics, and the findings of this assessment are as follows:

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- Depth to Ground Water The depth to groundwater at the site is anticipated to be over 100 feet below grade surface (bgs). A search of the New Mexico Office of the State Engineer (NMSEO) website identified no registered wells within one mile of the site, and registered wells within 5 miles of the site have an average depth to ground water of 175 feet bgs, with a minimum reported depth of 102 feet bgs.
- Distance to Nearest Potable Water Well The nearest water well registered in the NMSEO database is approximately 1.9 miles to the northeast.
- Distance to Nearest Surface Water The Laguna Plata (playa) is approximately 1.5 miles southeast of the site.
- Site Soils Soils at the site are mapped as Kermit soils and dune lands, 0 to 12 percent slopes. This soil has a surface layer of fine to coarse sand. Dunes in the area are 8 to 12 feet high. Interdune areas have a fine to coarse sand layer from 4 to 20 inches thick overlying a sandy clay loam. Kermit soil is very rapidly permeable and runoff is slow. Soil blowing is severe.
- Contaminated Soils Initial assessment of soil contaminant levels was performed at four locations across the release area to estimate the volume of soil requiring removal. Each location was sampled at the surface, at 1 foot bgs, and at 2 feet bgs, and analyzed for total petroleum hydrocarbons (TPH). Results of these sample analyses are:
 - TPH concentrations in surface soil samples ranged from 27,400 to 48,400 mg/kg;
 - TPH in the 1 foot bgs soil samples ranged from 510 to 10,300 mg/kg; and
 - TPH in the 2 foot bgs soil samples ranged from 544 to 2,830 mg/kg.
- Ground Water Quality Ground water quality is unknown at the site. As stated previously, there are no wells registered with the NMSEO website within one mile of the site.

5.2 Soil Remedial Action Levels

Soil remedial action levels were determined using the OCD ranking criteria. The hazard ranking for the site, and associated remedial action levels are provided below.

Remedial Action Plan Magnum Pronto State #4H Release
Lea County, New Mexico October 29, 2013
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5.2.1 Ranking Criteria

The site characteristics were used to determine the ranking score for the site. Depth to groundwater is greater than 100 feet bgs at the site (ranking score of 0). The site is over 1,000 feet from water sources and private domestic wells (ranking score of 0). The site is also over 1,000 horizontal feet from the nearest surface water body (ranking score of 0). Therefore, the total ranking score for the site is 0.

5.2.2 Remediation Levels

Remediation levels for benzene, total BTEX (includes benzene, toluene, ethylbenzene and xylenes), chloride, and TPH were selected based on the total ranking score of 0 for the release site. These remediation levels are as follows:

Constituent	Remediation Level (ppm, mg/kg)
Benzene	10
BTEX	50
ТРН	5,000
Chloride	1,000

5.3 Soil Sampling Procedures for Laboratory Analysis

Soil sampling for laboratory analysis was conducted according to OCD approved industry standards or other OCD-approved procedures. Accepted OCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect samples in clean, air-tight glass jars supplied by the laboratory which will conduct the analysis or from a reliable laboratory equipment supplier.
- Label the samples with a unique code for each sample.
- Cool and store samples with cold packs or on ice.
- Promptly ship sample to the lab for analysis following chain of custody procedures.
- The samples must be analyzed within the holding times for the laboratory analytical method specified by EPA.
- Benzene, toluene, ethylbenzene and xylene EPA Method 602/8020



- Chloride EPA Method 300.0
- Total Petroleum Hydrocarbons -EPA Method 418.1, or; -EPA Method Modified 8015

6.0 SOIL REMEDIATION AND MANAGEMENT

Highly contaminated/saturated soils and unsaturated contaminated soils exceeding the remediation levels described in Section 6 were remediated as follows:

- Soils within the spill area shown on Figure 2 of Appendix A were excavated to a maximum depth of 2 feet below ground;
- Following excavation, four samples (CL-1, CL-2, CL-3 and CL-4) were collected from the base of the excavation to evaluate the remaining levels of soil contaminants at the site. Soil samples locations are shown on Site Plan provided as Figure 2 of Appendix A.
- The excavated area was backfilled with clean fill and contoured to provide drainage away from the site.

6.1 Clearance Soil Samples

Analytical results of soil samples CL-1 through CL-4 are compared with the remediation levels detailed in Section 5.2.2 above, and are as follows:

Constituent	Remediation Level		Soil Sample	e Identifica	tion
		CL-1	CL-2	CL-3	CL-4
		(ppm, r	ng/kg)		
Benzene	10	ND*	ND	ND	ND
BTEX	50	ND	ND	ND	ND
ТРН	5,000	ND	61.6	57.0	ND
Chloride	1,000	25.2	2,050	2,680	12.0

ND - Constituent Not Detected above laboratory detection limit.

The complete laboratory analytical report is provided in Appendix B. Soil samples CL-1, CL-2, CL-3 and CL-4 did not exhibit Benzene, BTEX and TPH concentrations at levels above

Magnum Pronto State #4H Release
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remediation levels. Soil samples CL-1 and CL-4 did not exhibit chloride concentrations at levels above remediation levels.

Chloride concentrations in soil samples CL-2 (2,050 mg/kg) and CL-3 (2,680 mg/kg) were above the remediation level of 1,000 mg/kg. The client proposes to leave this contamination in place at the site based on the following site characteristics:

- The depth to groundwater is over 100 feet below ground,
- Distance to the nearest potable water well to the site is over 1,000 feet. The nearest potable water well registered with the New Mexico State Engineer is located approximately 1.9 miles to the northeast,
- Distance to the nearest surface water body is over 1,000 feet. The nearest surface water body is the Laguna Playa, which is located approximately 1.5 miles to the southeast.
- The excavated area has been backfilled with clean fill and contoured to provide drainage away from the site.

The remaining site contaminants appear to pose minimal threat to present or foreseeable beneficial use of fresh water, public health and the environment.

6.2 Contaminated Soil Disposal

Contaminated soil removed from the site was disposed at an OCD-approved facility. Excavated soils were transported by truck (20 cubic yard capacity) and disposed of at the Parabo Disposal Facility operated by Sundance Services, Inc., located east of Eunice, New Mexico.

A total of 92 cubic yards of contaminated soil was transported to the Parabo Disposal Facility. A total of three 20-yard loads and two 16-yard loads were removed from the site and disposed. The waste manifests are provided in Appendix C.

7.0 FINDINGS AND RECOMMENDATIONS

The findings and recommendations of this remedial action are as follows:

The objective of the remedial action was to remove and properly dispose of contaminated soil originating from a release of approximately 50 barrels of crude oil at the Magnum Pronto #4H site that occurred on February 19, 2013. Following soil removal, soil samples were collected from the base of the



excavation to evaluate the presence of Benzene, BTEX, TPH and chloride in the on-site soils above relevant laboratory reporting limits.

- Based on review of the analytical results from soil samples collected during this remedial action, the site does not appear to be affected by a release of Benzene, BTEX, and TPH at concentrations exceeding remediation levels detailed the Remedial Action Plan dated July 8, 2013 (Terracon Project Number 68137710).
- Based on review of the analytical results from soil samples collected during this remedial action, the site soils appear to contain chloride above the remediation level of 1,000 mg/kg at two locations, CL-2 (2,050 mg/kg) and CL-3 (2,680 mg/kg).
- The remaining site contaminants appear to pose minimal threat to present or foreseeable beneficial use of fresh water, public health and the environment.
- If soils located on the site are to be disturbed during future excavations or construction activities, proper procedures should be followed with respect to worker health and safety; and any affected soil or groundwater encountered should be properly characterized, treated and/or disposed in accordance with applicable local, state or federal regulations.





APPENDIX B – ANALYTICAL REPORT AND CHAIN OF CUSTODY

Analytical Report 468808

for Allied International Emergency

Project Manager: Chris Waters Hazmat One/ Concho Maljamar NM

04-SEP-13

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-13-14-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

Final 1.001



04-SEP-13

Project Manager: **Chris Waters Allied International Emergency** 2333 Delante Ave Fort Worth, TX 76117

Reference: XENCO Report No(s): 468808 Hazmat One/ Concho Maljamar NM Project Address: NM

Chris Waters:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 468808. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 468808 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully. Respectivity, Roah

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America





Sample Cross Reference 468808



Allied International Emergency, Fort Worth, TX

Hazmat One/ Concho Maljamar NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CL-1	S	08-14-13 17:30		468808-001
CL-2	S	08-14-13 17:32		468808-002
CL-3	S	08-14-13 17:33		468808-003
CL-4	S	08-14-13 17:35		468808-004



CASE NARRATIVE



Client Name: Allied International Emergency Project Name: Hazmat One/ Concho Maljamar NM

Project ID: Work Order Number(s): 468808 Report Date: 04-SEP-13 Date Received: 08/19/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

<u></u>	
Le La	
W j	
XS	

Contact: Chris Waters

Project Id:

Certificate of Analysis Summary 468808 Allied International Emergency, Fort Worth, TX

Project Name: Hazmat One/ Concho Maljamar NM



Date Received in Lab: Mon Aug-19-13 09:59 am Renart Date: 04-SEP-13

					Turis I was a second se	
					Froject Manager: Nelsey E	STOOKS
	Lab Id:	468808-001	468808-002	468808-003	468808-004	
American Dominated	Field Id:	CL-1	CL-2	CL-3	CL-4	
naisanhay sistinuy	Depth:					
	Matrix:	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Aug-14-13 17:30	Aug-14-13 17:32	Aug-14-13 17:33	Aug-14-13 17:35	
BTEX by EPA 8021B	Extracted:	Aug-21-13 10:00	Aug-21-13 10:00	Aug-21-13 10:00	Aug-21-13 10:00	
	Analyzed:	Aug-21-13 15:25	Aug-21-13 15:41	Aug-21-13 15:57	Aug-21-13 16:13	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene	-	ND 0.00102	ND 0.00101	ND 0.00104	ND 0.00100	
Toluene		ND 0.00205	ND 0.00203	ND 0.00207	ND 0.00201	
Ethylbenzene		ND 0.00102	ND 0.00101	ND 0.00104	ND 0.00100	
m,p-Xylenes		ND 0.00205	ND 0.00203	ND 0.00207	ND 0.00201	
o-Xylene		ND 0.00102	ND 0.00101	ND 0.00104	ND 0.00100	
Total Xylenes		ND 0.00102	ND 0.00101	ND 0.00104	ND 0.00100	
Total BTEX		ND 0.00102	ND 0.00101	ND 0.00104	ND 0.00100	
Inorganic Anions by EPA 300/300.1	Extracted:	Sep-03-13 08:00	Sep-03-13 08:00	Sep-03-13 08:00	Sep-03-13 08:00	
	Analyzed:	Sep-03-13 15:43	Sep-03-13 16:28	Sep-03-13 16:51	Sep-03-13 17:14	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		25.2 2.07	2050 40.9	2680 41.5	12.0 2.02	
Percent Moisture	Extracted:					
	Analyzed:	Aug-20-13 12:55	Aug-20-13 12:55	Aug-20-13 12:55	Aug-20-13 12:55	
	Units/RL:	% RL	% RL	% RL	% RL	
Percent Moisture		3.35 1.00	2.24 1.00	3.58 1.00	ND 1.00	
TPH By SW8015 Mod	Extracted:	Aug-20-13 18:30	Aug-20-13 18:30	Aug-20-13 18:30	Aug-20-13 18:30	
	Analyzed:	Aug-21-13 07:05	Aug-21-13 07:30	Aug-21-13 07:54	Aug-21-13 08:19	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 15.5	16.2 15.3	ND 15.6	ND 15.1	
C12-C28 Diesel Range Hydrocarbons		ND 15.5	45.4 15.3	57.0 15.6	ND 15.1	
C28-C35 Oil Range Hydrocarbons		ND 15.5	ND 15.3	ND 15.6	ND 15.1	
Total TPH		ND 15.5	61.6 15.3	57.0 15.6	ND 151	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratorics assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Project Manager Kelsey Brooks

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Final 1.001

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Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

- **MDL** Method Detection Limit **SDL** Sample Detection Limit
- PQL Practical Quantitation Limit MQL Method Quantitation Limit

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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LOD Limit of Detection

LOQ Limit of Quantitation

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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

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Project Name: Hazmat One/ Concho Maljamar NM

ork Orders : 468808	, 468808 Sample: 468808-001 / SMP	Bate	Project I	D: :: Soil		
Units: mg/kg	Date Analyzed: 08/21/13 07:05	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			נטן		
1-Chlorooctane		88.0	100	88	70-135	
o-Terphenyl		47.4	50.0	95	70-135	
Lab Batch #: 921078	Sample: 468808-002 / SMP	Batc	h: 1 Matrix	: Soil	a	
Units: mg/kg	Date Analyzed: 08/21/13 07:30	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		89.3	100	89	70-135	
o-Terphenyl		47.2	50.0	94	70-135	
Lab Batch #: 921078	Sample: 468808-003 / SMP	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 08/21/13 07:54	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		87.2	100	87	70-135	
o-Terphenyl		46.8	50.0	94	70-135	
Lab Batch #: 921078	Sample: 468808-004 / SMP	Batc	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 08/21/13 08:19	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7 mary cos	82.5	100	83	70-135	
o-Terphenyl		43.0	50.0	86	70-135	
Lab Batch #: 921117	Sample: 468808-001 / SMP	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 08/21/13 15:25	SU	RROGATE R	ECOVERY	STUDY	
BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0302	0.0300	101	80-120	
4 December of the sector of th		0.0265	0.0200	00	00 100	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Project Name: Hazmat One/ Concho Maljamar NM

ork Orders : 468808 Lab Batch #: 921117	, 468808 Sample: 468808-002 / SMP	Batcl	Project I h: 1 Matrix	D: :: Soil		
Units: mg/kg	Date Analyzed: 08/21/13 15:41	SU	RROGATE R	ECOVERY	STUDY	
ВТЕХ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			נטן		
1,4-Difluorobenzene		0.0304	0.0300	101	80-120	
4-Bromofluorobenzene		0.0267	0.0300	89	80-120	
Lab Batch #: 921117	Sample: 468808-003 / SMP	Batcl	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 08/21/13 15:57	SU	RROGATE R	ECOVERY	STUDY	
ВТЕХ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene		0.0304	0.0300	101	80-120	
4-Bromofluorobenzene		0.0269	0.0300	90	80-120	
Lab Batch # 921117	Sample: 468808-004 / SMP	Batel	h· 1 Matrix	· Soil		
Units: mg/kg	Date Analyzed: 08/21/13 16:13	SU	RROGATE R	ECOVERY	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0301	0.0300	100	80-120	
4-Bromofluorobenzene		0.0267	0.0300	89	80-120	
Lab Batch #: 921078	Sample: 642800-1-BLK / B	LK Bate	h: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 08/21/13 01:06	SU	RROGATE R	ECOVERY S	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			լոյ		
1-Chlorooctane		90.5	100	91	70-135	
o-Terphenyl		49.8	50.0	100	70-135	
Lab Batch #: 921117	Sample: 642828-1-BLK / B	LK Batel	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 08/21/13 11:38	SU	RROGATE R	ECOVERY	STUDY	
BTEX	K by EPA 8021B	Amount Found	True Amount	Recovery	Control Limits %R	Flags
	Analytes	[A]	[B]	[D]	7014	
1.4-Difluorobenzene	Analytes	[A]	[B]	[D]	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.



Project Name: Hazmat One/ Concho Maljamar NM

ork Orders : 468808	, 468808 Sample: 642800-1-BKS / BI	KS Batel	Project I	D: Solid		
Units: mg/kg	Date Analyzed: 08/21/13 01:30	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes					
1-Chlorooctane		96.7	100	97	70-135	
o-Terpnenyi		52.8	50.0	106	70-135	
Lab Batch #: 921117	Sample: 642828-1-BKS / BI	KS Batel	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 08/21/13 10:50	SU.	RROGATE R	ECOVERY	STUDY	
BTEX	Anglutes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1 4-Difluorobenzene	Analytes	0.0247	0.0200	116	80.120	
4-Bromofluorobenzene		0.0347	0.0300	08	80-120	
	C	0.0295	0.0500	90 0.111	80-120	
Lab Batch #: 921078	Sample: 642800-1-BSD / BS	SD Batcl	h: 1 Matrix	Solid	STUDY	
Units: mg/kg	Date Analyzed: 08/21/13 01:54	50.	KRUGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		95.4	100	95	70-135	-
o-Terphenyl		50.9	50.0	102	70-135	
Lab Batch #: 921117	Sample: 642828-1-BSD / BS	SD Batcl	a: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 08/21/13 11:06	SU	RROGATE R	ECOVERY	STUDY	1
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0345	0.0300	115	80-120	
4-Bromofluorobenzene		0.0301	0.0300	100	80-120	
Lab Batch #: 921078	Sample: 468866-001 S / MS	Batel	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 08/21/13 02:42	SU	RROGATE R	ECOVERY	STUDY	146
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		92.1	100	92	70-135	
				-		

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Project Name: Hazmat One/ Concho Maljamar NM

Vork Orders: 468808	, 468808		Project I	D:		
Lab Batch #: 921117	Sample: 468804-001 S / MS	Batc	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 08/21/13 14:20	SU	RROGATE R	ECOVERY	STUDY	
BTE	Anglytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluorohenzene	Analytes	0.0331	0.0300	110	80.120	
4-Bromofluorobenzene		0.0293	0.0300	98	80-120	
Lab Batch #: 921078	Sample: 468866-001 SD / N	ISD Bate	h: 1 Matrix	r: Soil		
Units: mg/kg	Date Analyzed: 08/21/13 03:06	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1 Chlaracatana	Analytes	00.8	100	01	70.125	
o-Terphenyl		42.3	50.0	85	70-135	
Lab Batch # 921117	Sample: 468804-001 SD / M	ISD Bate	h. 1 Matrix	r: Soil	(
Units: mg/kg	Date Analyzed: 08/21/13 14:36	SU	RROGATE R	ECOVERY	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0335	0.0300	112	80-120	
4-Bromofluorobenzene		0.0295	0.0300	98	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.

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BS / BSD Recoveries



Project Name: Hazmat One/ Concho Maljamar NM

Work Order #: 468808, 468808 Analyst: KEB

Date Prepared: 08/21/2013 Batch #: 1

Sample: 642828-1-BKS

Lab Batch ID: 921117

Project ID: Date Analyzed: 08/21/2013 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANKS	PIKE DUPL	ICATE F	RECOVE	RY STUD	X	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[6]				
Benzene	<0.000994	0.0994	0.0942	95	0.0996	0.0957	96	2	70-130	35	
Toluene	<0.00199	0.0994	0.0896	60	0.0996	0.0910	91	2	70-130	35	
Ethylbenzene	<0.000994	0.0994	0.0904	91	0.0996	0.0925	93	2	71-129	35	
m,p-Xylenes	<0.00199	0.199	0.180	90	0.199	0.184	92	2	70-135	35	
o-Xylene	<0.000994	0.0994	0.0912	92	0.0996	0.0935	94	2	71-133	35	
Analyst: JUM	Da	te Prepare	d: 09/03/201		1.50		Date An	alyzed: 0	9/03/2013		

Lab Batch ID: 921919	Sample: 643327-1-B	KS	Batch	1#: 1					Matrix: S	olid		
Units: mg/kg			BLAN	K /BLANK S	PIKE / F	ILANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	Y	
Inorganic Anions by	EPA 300/300.1	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes		(v)	[B]		[D]	[E]	Dupincate Result [F]	16]	9/	No%	%KPD	
Chloride		<2.00	50.0	49.8	100	50.0	45.7	91	6	80-120	20	

Relative Percent Difference RPD = 200*((C-F)/(C+F) Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes Final 1.001



BS / BSD Recoveries



Project Name: Hazmat One/ Concho Maljamar NM

Work Order #: 468808, 468808 Analyst: ARM

Date Prepared: 08/20/2013 Batch #: 1

Project ID: Date Analyzed: 08/21/2013 Matrix: Solid

Lab Batch ID: 921078	Sample: 642800-1-B	KS	Batch	1#: 1					Matrix: S	olid		
Units: mg/kg			BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	Y	
TPH By SW801:	5 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		2	[B]	[C]	[D]	E	Result [F]	[6]				
C6-C12 Gasoline Range Hydrocart	suoc	<15.0	1000	922	92	1000	912	91	1	70-135	35	
C12-C28 Diesel Range Hydrocarbo	Suc	<15.0	1000	937	94	1000	916	92	2	70-135	35	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Hazmat One/ Concho Maljamar NM

Work Order #: 468808						
Lab Batch #: 921919			Pro	ject ID:		
Date Analyzed: 09/03/2013	Date Prepared: 09/03	3/2013	A	nalyst: J	UM	
QC- Sample ID: 468808-001 S	Batch #: 1		Ν	Matrix: S	oil	
Reporting Units: mg/kg	MATR	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	25.2	51.7	79.0	104	80-120	
Lab Batch #: 921919						
Date Analyzed: 09/03/2013	Date Prepared: 09/03	3/2013	А	nalyst: J	UM	
QC- Sample ID: 469562-002 S	Batch #: 1		N	Aatrix: S	oil	
Reporting Units: mg/kg	MATR	IX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	112	534	660	103	80-120	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries





Work Order # :468808Lab Batch ID:921117Date Analyzed:08/21/2013Reporting Units:mg/kg

Project ID: 1 Matrix: Soil

> OC- Sample ID: 468804-001 S Date Prepared: 08/21/2013

Batch #: 1 Matrix: S Analyst: KEB MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

RTEV by EDA 9071B	Parent		Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
DIEV DY ELA 0021D	Sample	Spike	Result	Sample	Spike	Spiked Sample	Dup.	RPD	Limits	Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD)
Benzene	<0.00103	0.103	0.0906	88	0.102	0.0888	87	2	70-130	35	
Toluene	<0.00205	0.103	0.0861	84	0.102	0.0846	83	2	70-130	35	
Ethylbenzene	<0.00103	0.103	0.0861	84	0.102	0.0848	83	2	71-129	35	
m,p-Xylenes	<0.00205	0.205	0.172	84	0.204	0.169	83	2	70-135	35	
o-Xylene	<0.00103	0.103	0.0878	85	0.102	0.0865	85	1	71-133	35	
Lab Batch ID: 921078	QC- Sample ID:	468866-	001 S	Bat	ch #:	1 Matrix	c: Soil				
Date Analyzed: 08/21/2013	Date Prepared:	08/20/20	113	Ani	alyst: A	RM					
Reporting Units: mg/kg		M	ATRIX SPIKI	E/MATI	IIX SPII	KE DUPLICA'	TE REC	OVERY S	YUDY		
TDU D. CW0016 Mcd	Parent		Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	

Flag KRPD % 35 35 Limits %R 70-135 70-135 RPD % 0 6 Dup. %R 89 92 Spike Spiked Sample Added Result [F] 1080 903 1020 1020 3 Sample %R [D] 89 83 Result 202 983 Spike Added [B] 1020 1020 Sample Result <15.3 [Y] 141 ITH BY SW8015 Mod C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons Analytes

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, <math>B = Present in Blank, NR = Not Requested, I = Interference, <math>NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked. Page 14 of 17



Sample Duplicate Recovery



Project Name: Hazmat One/ Concho Maljamar NM

Work Order #: 468808

Lab Batch #:	921085				Project I	D:	
Date Analyzed:	08/20/2013 12:55	Date Prepar	ed: 08/20/2013	Anal	yst: WRU		
QC- Sample ID:	468808-001 D	Batch	n #: 1	Mat	rix: Soil		
Reporting Units:	%		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
	Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
	Analyte		1 -1	[B]			
Percent Moisture			3.35	3.39	1	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

	ω	N -	-	-	0 6	00	7	<u></u>	UN I	4	ω	N	-		40		10	6	_	-	-	-1	-		-		
Preservatives: Cont. Size: 402	5)	3) (1)	1 23	Relinquished						cL~4	c1-3	4.2	4.1	Sample	Sampler Name		Special DLs (DAPP Per-Co	Reg Program:	Quote/Pricing	Bill to: 2333	Lynn (E-mail Results	NJ, PA, SC, TN	Huz Net S	Company-City	aboratori
Various (V), z (4), 8oz (8)		1000	100	d by (Initials										ē	· Chris		GW DW QA	Intract CLP	UST DRY		3 Delm	ALC A	to Atz B	V, UT Other	Location	ntarna	с С
HCI pH<2 (H), 32oz (32), 40				and Sign)						8-14-13	1-14-13	8-14-13	8-14-13	Sampling Date	Voters		PP MDLs R	AGCEE NA	-CLEAN Lan		te Ave	The Invoice	PM and	NM NU,	ncho Mu	tional e	5332, Blackberry
H2SO4 pH<2 0ml VOA (40),	-	0 11 10	A-14-12 0	Date & T						1735	1733	1732	1730	Time	Signatur		Ls See Lab P	VY DOE DO	d-Fill Waste-	P.O. No:	Ft. Vorth	with Final Rer		Chris	Unner N	meroport	Drive, San Anton
1L (1			51	ime										Depth ft' in" m	e		M	8	Disp	24	H	ort		3	Z		10, TX
), 50		2	2	_		-			4	Σ	5	S	5	Matrix	N		clude	ISAC	NPD	N				N.		Pho	78238
Oml (6)	4)	20	Reli		+	-	$\left \right $	-	×	×	×	×	Composite Grab			B	MO	DES		26	oice		15	w	1 ec	M
(5), T				inquis						-	-	-	-	# Containers		1	à	THE	DW	-	=	must	Fa		33	32-	0-501
edlar		14		shed						2	2	2	I	Container Size			PM)		TRR	Cal		have	x No:		OI-	5	9-333
c Acid Bag (E		your		to (Init		+				2	5	5	5	Container Type					P	for P		aPO			13-1	-42	-
SNaO				tials a						2	5	0	5	Preservatives						0					240	=	
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Final 1.001



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Allied International Emergency Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 08/19/2013 09:59:00 AM **Temperature Measuring device used :** Work Order #: 468808 Sample Receipt Checklist Comments #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6 *Custody Seals Signed and dated? Yes #7 *Chain of Custody present? Yes #8 Sample instructions complete on Chain of Custody? Yes #9 Any missing/extra samples? No #10 Chain of Custody signed when relinquished/ received? Yes #11 Chain of Custody agrees with sample label(s)? Yes #12 Container label(s) legible and intact? Yes #13 Sample matrix/ properties agree with Chain of Custody? Yes #14 Samples in proper container/ bottle? Yes #15 Samples properly preserved? Yes #16 Sample container(s) intact? Yes #17 Sufficient sample amount for indicated test(s)? Yes #18 All samples received within hold time? Yes #19 Subcontract of sample(s)? Yes #20 VOC samples have zero headspace (less than 1/4 inch bubble)? N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

#21 <2 for all samples preserved with HNO3,HCL, H2SO4?

#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?

Checklist completed by: Mmg Moah Kelsey Brooks Checklist reviewed by: Mmg Moah

Date: 08/19/2013

N/A

N/A

Date: 08/20/2013

	P.O. Box 1737 Eunice, (575) 39	RVICES, I New Mexico 88231 4-2511	nc?	TICKET No.	258054
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TRANSPORTER O	COMPANY: MB	G Seri	ices	TIM	E3:38 AMPM
DATE: 8-1	5-13 VEHICLE NO:	01	GENERATO N	AN'S NAME:	ris Water
CHARGE TO: A	Third Tht	Emerne	AND AND	TIMBER 432	813-4211
	una vin	- minger	ng Int	1.00	10-10-11
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	L J Solids	I J BS&W	Content:	[] Call Out	
Descrip	tion:	DIP			the second second
RRC or API #	Call States			C-133#	
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	· Emergenci	A RIG NAME 43	2-813-4211
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HARGE TO: A	Used Int.	Emergency	AND NOTABER 432-8/3-421
		TYPE OF MATERIAL	
Description	[] Production Water [] Tank Bottoms [] Solids	[] Drilling Fluids [] Contaminated Soil [] BS&W Content:	[] Rinsate [] Jet Out [] Call Out
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FACILITY F		. Sta Cuz	

P.O. Box 1737 Eunice, New 1 (575) 394-2511	Mexico 88231	TICKET No. 258066
LEASE OPERATOR/SHIPPER/COMPANY:	OG onto St. Con aro's Truc. GENER	KARCOMPANY Chris Linter
CHARGE TO: Allied Int	· Emergen	NAME 432-813-421
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P.O. Box 1737 Eunice, Nev (575) 394-25	WICES, Inc. 9 w Mexico 88231	TICKET No. 258076
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EASE NAME: Maanum Pro	nts + . #4H	
RANSPORTER COMPANY: JIL	Trucking	TIMES:38 AM/PM
DATE: 8-15-13 VEHICLE NO:	208 GENERA	MAN'S NAME: Chris unter
HARGE TO: Allied Int.	Emergency AND	NUMBER 432-813-4211
	TYPE OF MATERIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate
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White - Sundance	Canary - Sundance Acct #1	Pink - Transporter